

RAMPAGE V EDITION 10 Compatibility Test Report Rev.1.0

Released on	May 24th, 2016
Sampling quantity	7 pcs
Product	RAMPAGE V EDITION 10 mainboard Rev. 1.00C AMI UEFI BIOS Ver. 0502
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Specification Information

1. Main Features

Specifications Summary		
The following items describe the spec, function and feature of the motherboard; include the special attributes of the motherboard and the new technology it supports.		
Function Name	Content information	Remark/Special Setting
CPU	2011-3: Haswell-E, Broadwell-E Support TDP, HyperThreading, Intel Turbo Boost 2.0, Intel Advanced Vector Extensions, Intel Insider™, EIST, C1E, C-State, XD, VT	
Chipset	Intel: X99	
BCLK	100 MHz.	
Memory	288-pin un-buffered x4 non-ECC DDR4-2133/2400/2600/2800/3000/3200/3333/3400MHz (Up to 64GB)	
Intel PCH X99 Storage	SATA 6G * 10 M.2 PCIE * 1 U.2 *1 RAID 0, RAID 1, RAID 5, RAID 10, Mix Mode and AHCI support Intel Rapid Storage Technology	
Audio	Realtek ALC1150 8-channel (Azalia Audio) Codec, Coaxial/optical S/PDIF out	
LAN	Intel I218V + Intel I211AT Gigabit LAN * 2	
USB 2.0	USB 2.0 * 1 (2 ports) rear panel. USB 2.0 * 1 (2 ports) mid-board.	
USB 3.0	USB 3.0 * 2 (4 ports) rear panel. USB 3.0 * 2 (4 ports) mid-board.	
USB 3.1	ASMedia ASM1142 (4 ports) rear panel.	
Expansion Slots	4* PCI-Ex16 with ATi Cross Fire at x8, x8, x8, x8 speed 3 * PCI-Ex16 with nVIDIA SLI at x16, x16, x8 speed PCI-Ex1 * 1	
BIOS Features	128 Mb Flash ROM, AMI BIOS	
Power Requirement	ATX power supply(with 24-pin , 8-pin , 4-pin 12V plugs), ATX 12V 2.0	
Form Factor	E-ATX form factor: 12 in x 10.7 in, Black ASUS (RoHS), 8 Layers	
ASUS Features	TPU, AI Charger+, EPU, ASUS Anti-Surge Protection, ASUS C.P.R.(CPU Parameter Recall), ASUS CrashFree BIOS3, ASUS EZ Flash 2, ASUs MyLogo 2, Disk Unlocker, MemOK!, Q-Connector, Q-Design, Q-Shield, Wi-Fi GO!, AI Suite 3, UEFI BIOS, DIGI+VRM , USB BIOS Flashback, Fan Xpert 4, Q-FAN, DirectKey, TPM, USB3.1 Boost On Board switch button, Clr_CMOS Button, SUPREME FX3, ROG light up logo, BIOS switch, OC Panel II , ROG Front Base	

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PART A. SPECIFICATION TEST

1. System Specific Test

CPU & DIMM Usage List		
Try several CPU + DIMM settings and check frequency.		
Intel 2011 CPU	O.S. Environment	Status
BLK 100 vs DIMM 3400(OC)	BIOS POST	Fail Refer to Part D
	Win10-64 Pro. TH2	Fail Refer to Part D
BLK 100 vs DIMM 3333(OC)	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass Refer to Part D
BLK 100 vs DIMM 3200(OC)	BIOS POST	Pass
BLK 100 vs DIMM 3000(OC)	Win10-64 Pro. TH2	Pass
	BIOS POST	Pass
BLK 100 vs DIMM 2800(OC)	Win10-64 Pro. TH2	Pass
	BIOS POST	Pass
BLK 100 vs DIMM 2666(OC)	Win10-64 Pro. TH2	Pass
	BIOS POST	Pass
BLK 100 vs DIMM 2400(OC)	Win10-64 Pro. TH2	Pass
	BIOS POST	Pass
BLK 100 vs DIMM 2133	Win10-64 Pro. TH2	Pass
	BIOS POST	Pass
Memory Usage List		
Check memory information if using follow setting in all slots.		
Memory Mixed test	O.S. Environment	Status
Mixing same brands of memory	BIOS POST	Pass
Mixing different brands of memory	BIOS POST	Pass
DDR4-2133/2400/2666/2800/3000/3200/3333/3400	O.S. Environment	Status
DIMM_A1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_B1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_C1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_D1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_B1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_C1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_D1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_A2	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_B1 and_B2	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_C1 and_C2	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_D1 and_D2	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_B1 and_C1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_B1 and_D1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_C1 and_D1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_B1 and_C1 and_D1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_A1 and_B1 and_C1 and_D1	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass
DIMM_All	BIOS POST	Pass
	Win10-64 Pro. TH2	Pass

Add-on Accessories			
Confirm all Accessories should not have mechanical conflict When PCIe16 PCIe11long card is used.			
SATA	Stock Number	O.S. Environment	Status
SATA 6G Cable 500mm 2 in 1	14013-00022500	Win10-64 Pro. TH2	Pass
I/O Shield	Stock Number	O.S. Environment	Status
IO:12USB/Audio/2LAN/WiFi/BT	13MB0Q01AM0301(I/O 框)	Win10-64 Pro. TH2	Pass
SPDIF	Stock Number	O.S. Environment	Status
SPDIF OUT/COA+OPT	80-C1B61P-0A01	Win10-64 Pro. TH2	Pass
Others	Stock Number	O.S. Environment	Status
Q-Connector 2 in 1	12005-00110300	Win10-64 Pro. TH2	Pass
DIPOLE ANTENNA 2.4/5G MMCX X3	14008-00700000	Win10-64 Pro. TH2	Pass
SLI CABLE 26P 1.0 10CM BLK ROG	14010-00131400	Win10-64 Pro. TH2	Pass
3-WAY SLI (硬卡)	60MC0010-MC0D01	Win10-64 Pro. TH2	Pass
4-WAY SLI (硬卡)	60MC00T0-MC0C01	Win10-64 Pro. TH2	Pass
TPM/FW3.16	80-C1B0AP-00B01	Win10-64 Pro. TH2	Pass
ThunderboltEX II	60MC02E0	Win10-64 Pro. TH2	Pass
FAN EXTENSION CARD	13030-00690000	Win10-64 Pro. TH2	Pass
CABLE 80CM 2X5P FOR SUPREMEFX	14011-00750000	Win10-64 Pro. TH2	Pass
Hyper EXPRESS 2	60MC02N0	Win10-64 Pro. TH2	Pass
M.2 Bracket	13MB0JF1AM0301	Win10-64 Pro. TH2	Pass
RGB Header HONGJIXIN Cable	14011-01450300	Win10-64 Pro. TH2	Pass
BIOS Flash ROM			
Flash the BIOS in different vender ROM.			
SPI		O.S. Environment	Status
WINBOND 128Mb		MS-DOS V6.22	Pass
Back Panel Interface			
Check the back panel interface function should work normally under Windows 10.			
Name		O.S. Environment	Status
AUDIO		Win10-64 Pro. TH2	Pass
SPDIFO		Win10-64 Pro. TH2	Pass
KBMS_USB_78		Win10-64 Pro. TH2	Pass
BT4_WI-FI		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EC3_EA4		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EC1_EA2		Win10-64 Pro. TH2	Pass
USB3_E1234		Win10-64 Pro. TH2	Pass
FLBK_CL_CMOS		Win10-64 Pro. TH2	Pass
Front Panel Interface			
Check the front panel interface function should work normally under Windows 10.			
Panel/F_Panel		O.S. Environment	Status
START BUTTON		BIOS POST	Pass
RESET BUTTON		BIOS POST	Pass
PCIEX16_SW		BIOS POST	Pass
DRAM_SM_SW		BIOS POST	Pass
SAFE_BOOT		BIOS POST	Pass
RETRY_BUTTON		BIOS POST	Pass
BIOS_SWITCH		BIOS POST	Pass
Onboard Connectors			
Check the onboard connectors function should work normally under Windows 10.			
Name		O.S. Environment	Status
LGA2011-3		Win10-64 Pro. TH2	Pass
EATX12V,EATX12V_2			
PCIEX16/X8_1, PCIEX8_2, PCIEX14_1, PCIEX16/X8_3, PCIEX8_4		Win10-64 Pro. TH2	Pass
DIMM_A1, DIMM_A2, DIMM_B1, DIMM_B2, DIMM_C1, DIMM_C2, DIMM_D1, DIMM_D2		Win10-64 Pro. TH2	Pass
AAFP		Win10-64 Pro. TH2	Pass
TPM		Win10-64 Pro. TH2	Pass
EZ_PLUG		Win10-64 Pro. TH2	Pass
BATTERY		Win10-64 Pro. TH2	Pass
RGB_HEADER		Win10-64 Pro. TH2	Pass
USB3_34		Win10-64 Pro. TH2	Pass
USB1314		Win10-64 Pro. TH2	Pass
ROG_EXT		Win10-64 Pro. TH2	Pass
U.2		Win10-64 Pro. TH2	Pass
SATA6G_1-6, SATA6G_7-10		Win10-64 Pro. TH2	Pass
M.2		Win10-64 Pro. TH2	Pass
SATA6G_1-4, SATAEXPRESS, SATA6G_7-10		Win10-64 Pro. TH2	Pass
CHA_FAN1, CHA_FAN2		Win10-64 Pro. TH2	Pass
H_AMP_FAN		Win10-64 Pro. TH2	Pass
USB3_12		Win10-64 Pro. TH2	Pass
CPU_FAN, CPU_OPT		Win10-64 Pro. TH2	Pass

Onboard Connectors		
Check the onboard connectors function should work normally under Windows 10.		
Name	O.S. Environment	Status
CHA_FAN2	Win10-64 Pro. TH2	Pass
EXT_FAN	Win10-64 Pro. TH2	Pass
TB_HEADER	Win10-64 Pro. TH2	Pass
T_SENOSR	Win10-64 Pro. TH2	Pass
On-board Jumpers		
Check the on-board jumpers function should work normally under Windows 8.1.		
Name	O.S. Environment	Status
CPU_OV	Win10-64 Pro. TH2	Pass
LN2_MODE	Win10-64 Pro. TH2	Pass
CLR_CMOS	Win10-64 Pro. TH2	Pass
On-board LED		
Check the on-board LED function should work normally under Windows 8.1.		
Name	O.S. Environment	Status
PWR_LED	BIOS POST Win10-64 Pro. TH2	Pass
CPU_LED	BIOS POST Win10-64 Pro. TH2	Pass
DRAM_LED	BIOS POST Win10-64 Pro. TH2	Pass
VGA_LED	BIOS POST Win10-64 Pro. TH2	Pass
BOOT_DEVICE_LED	BIOS POST Win10-64 Pro. TH2	Pass
Audio area_LED	BIOS POST Win10-64 Pro. TH2	Pass
PCIE_LED1-4	BIOS POST Win10-64 Pro. TH2	Pass
RST_LED	BIOS POST Win10-64 Pro. TH2	Pass
START_LED	BIOS POST Win10-64 Pro. TH2	Pass
HDD_LED	BIOS POST Win10-64 Pro. TH2	Pass
PLUG_8PIN_PWR	BIOS POST Win10-64 Pro. TH2	Pass
SLI/CFX_LED	BIOS POST Win10-64 Pro. TH2	Pass
FLBK_LED	BIOS POST Win10-64 Pro. TH2	Pass
Q-Code	BIOS POST Win10-64 Pro. TH2	Pass
MOS_LED	BIOS POST Win10-64 Pro. TH2	Pass
NB_LED	BIOS POST Win10-64 Pro. TH2	Pass
PCH_LED	BIOS POST Win10-64 Pro. TH2	Pass
RGB PCB 15 LED	BIOS POST Win10-64 Pro. TH2	Pass
On-board Header		
Check the on-board header function should work normally under Windows 8.1.		
Name	O.S. Environment	Status
RGB_Header	Win10-64 Pro. TH2	Pass
TB_Header	Win10-64 Pro. TH2	Pass
EXT Fan header	Win10-64 Pro. TH2	Pass
On-board Button		
Check the on-board button function should work normally under Windows 8.1.		
Name	O.S. Environment	Status
FLBK_CL_CMOS	Win10-64 Pro. TH2	Pass
START_BUTTON	Win10-64 Pro. TH2	Pass
RESET_BUTTON	Win10-64 Pro. TH2	Pass
SAFE_BOOT	Win10-64 Pro. TH2	Pass
RETRY_BUTTON	Win10-64 Pro. TH2	Pass
MemOK!	Win10-64 Pro. TH2	Pass

Mechanical conflict		
Test the compatibility of packed into the case.		
I/O Shield	O.S. Environment	Status
I/O Shield	None	Pass
Mechanical	O.S. Environment	Status
CPU Cooler	None	Pass
PCIEX16	None	Pass
PCIEX1	None	Pass
SATA connector	None	Pass
On-board Connectors (USB, FAN, AAFP, SPDIF_OUT)	None	Pass
Chassis fitting		
Test the compatibility of packed into the case.		
Chassis fitting	O.S. Environment	Status
Chassis fitting	None	Pass
PCB and PES		
Check all the printed words are based on the ASUS Naming Rule and all PES items.		
PCB	O.S. Environment	Status
Corners	None	Pass
Logo	None	Pass
Feature Name Wording	None	Pass
Painted name	None	Pass
PES	O.S. Environment	Status
All items	None	Pass
Option items	None	Pass
Code name	None	Pass

2. System BIOS Test for EFI

ASUS EZ Mode		
ASUS EZ-Mode System Information	O.S. Environment	Status
Information	BIOS Setup	Pass
CPU Temperature	BIOS Setup	Pass
CPU Core Voltage	BIOS Setup	Pass
Motherboard Temperature	BIOS Setup	Pass
DRAM Status	BIOS Setup	Pass
SATA Information	BIOS Setup	Pass
X.M.P.	BIOS Setup	Pass Refer to Part D
Intel Rapid Storage Technology	BIOS Setup	Pass
FAN Profile	BIOS Setup	Pass
CPU FAN	BIOS Setup	Pass
EZ System Tuning	BIOS Setup	Pass
Boot Priority	BIOS Setup	Pass
System Date/Time	BIOS Setup	Pass
ASUS EZ-Mode Information	O.S. Environment	Status
Model Name	BIOS Setup	Pass
BIOS Version	BIOS Setup	Pass
CPU Speed	BIOS Setup	Pass
Total Memory	BIOS Setup	Pass
ASUS EZ-Mode System Language	O.S. Environment	Status
English	BIOS Setup	Pass
France	BIOS Setup	Pass
German	BIOS Setup	Pass
Japanese	BIOS Setup	Pass
Chinese (GB)	BIOS Setup	Pass
Chinese (BIG5)	BIOS Setup	Pass
Russian	BIOS Setup	Pass
Spanish	BIOS Setup	Pass
Korean	BIOS Setup	Pass
ASUS EZ-Mode EZ System Tuning	O.S. Environment	Status
Power Saving Mode	BIOS Setup	Pass
Normal Mode	BIOS Setup	Pass
ASUS Optimal Mode	BIOS Setup	Pass
ASUS EZ Tunig Wizard	O.S. Environment	Status
RAID Wizard	BIOS Setup	Pass
OC Wizard	BIOS Setup	Pass
ASUS EZ-Mode Manual FAN Tuning	O.S. Environment	Status
CPU FAN	BIOS Setup	Pass

ASUS EZ Mode			
ASUS EZ-Mode Manual FAN Tuning		O.S. Environment	Status
<i>CHA FAN</i>		BIOS Setup	Pass
<i>HAMP FAN</i>		BIOS Setup	Pass
<i>EXT FAN</i>		BIOS Setup	Pass
<i>Silent Mode</i>		BIOS Setup	Pass
<i>Standard Mode</i>		BIOS Setup	Pass
<i>Turbo Mode</i>		BIOS Setup	Pass
<i>Full Speed Mode</i>		BIOS Setup	Pass
<i>Manual Mode</i>		BIOS Setup	Pass
<i>PWM / DC Mode</i>		BIOS Setup	Pass
<i>FAN off</i>		BIOS Setup	Pass
ASUS EZ-Mode Boot Priority		O.S. Environment	Status
<i>1st Boot Device</i>		BIOS Setup BIOS POST	Pass
<i>2nd Boot Device</i>		BIOS Setup BIOS POST	Pass
<i>3rd Boot Device</i>		BIOS Setup BIOS POST	Pass
<i>4th Boot Device</i>		BIOS Setup BIOS POST	Pass
<i>5th Boot Device</i>		BIOS Setup BIOS POST	Pass
<i>Other Boot Device</i>		BIOS Setup BIOS POST	Pass
ASUS EZ-Mode Hot-key		O.S. Environment	Status
<i>Default (F5)</i>		BIOS Setup	Pass
<i>Advanced Mode (F7)</i>		BIOS Setup	Pass
<i>Boot Menu (F8)</i>		BIOS Setup	Pass
<i>Save & Exit (F10)</i>		BIOS Setup	Pass
<i>EZ Tuning Wizard (F11)</i>		BIOS Setup	Pass
Main			
Test all items of the main section with USB Keyboard and Mouse in BIOS setup utility.			
BIOS Information		O.S. Environment	Status
<i>BIOS Vendor</i>		BIOS Setup	Pass
<i>BIOS Version</i>		BIOS Setup	Pass
<i>Build Date</i>		BIOS Setup	Pass
<i>PCH Stepping</i>		BIOS Setup	Pass
<i>EC1 Version</i>		BIOS Setup	Pass
<i>EC2 Version</i>		BIOS Setup	Pass
<i>KeyBot Version</i>		BIOS Setup	Pass
<i>LED EC Version</i>		BIOS Setup	Pass
<i>ME FW Version</i>		BIOS Setup	Pass
Processor Information		O.S. Environment	Status
<i>Brand String</i>		BIOS Setup	Pass
<i>Speed</i>		BIOS Setup	Pass
<i>Total Memory</i>		BIOS Setup	Pass
<i>Memory Frequency</i>		BIOS Setup	Pass
System Language		O.S. Environment	Status
<i>English</i>		BIOS Setup	Pass
<i>France</i>		BIOS Setup	Pass
<i>German</i>		BIOS Setup	Pass
<i>Japanese</i>		BIOS Setup	Pass
<i>Chinese (GB)</i>		BIOS Setup	Pass
<i>Chinese (BIG5)</i>		BIOS Setup	Pass
<i>Russian</i>		BIOS Setup	Pass
<i>Spanish</i>		BIOS Setup	Pass
<i>Korean</i>		BIOS Setup	Pass
System Time/Date		O.S. Environment	Status
<i>System Time</i>		BIOS Setup	Pass
<i>System Date</i>		BIOS Setup	Pass
Security		O.S. Environment	Status
<i>Administrator Password</i>		BIOS Setup	Pass
<i>Clear Administrator Password</i>		BIOS Setup	Pass
<i>User Password</i>		BIOS Setup	Pass
<i>Change User Password</i>		BIOS Setup	Pass
<i>Password Check</i>		BIOS Setup	Pass

Ai Tweaker		
Test all items of the advanced section with USB Keyboard and Mouse in BIOS setup utility.		
Ai Tweaker Configuration	O.S. Environment	Status
CPU & DRAM Speed information	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
Ai Overclock Tuner	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
ASUS MultiCore Enhancement	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
CPU Core Ratio	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
AVX Instruction Core Ratio Negative Offset	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
Min. CPU Cache Ratio	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
Max. CPU Cache Ratio	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
Internal PLL Overvoltage	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
DRAM Frequency	BIOS Setup BIOS POST Win10-64 Pro. TH2	Pass
TPU	BIOS Setup Win10-64 Pro. TH2	Pass
EPU Power Saving Mode	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Timing Control	BIOS Setup Win10-64 Pro. TH2	Pass
External Digi+ Power Control	BIOS Setup Win10-64 Pro. TH2	Pass
Internal CPU Power Management	BIOS Setup Win10-64 Pro. TH2	Pass
Tweaker's Paradise	BIOS Setup Win10-64 Pro. TH2	Pass
Extreme Over-voltage	BIOS Setup Win10-64 Pro. TH2	Pass
Fully Manual Mode	BIOS Setup Win10-64 Pro. TH2	Pass
CPU SVID Support	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM SVID Support	BIOS Setup Win10-64 Pro. TH2	Pass
PLL Reference Offset Mode Sign	BIOS Setup Win10-64 Pro. TH2	Pass
PLL Reference Offset Value	BIOS Setup Win10-64 Pro.	Pass
CPU Spread Spectrum	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Timing Control		
Primary Timings	BIOS Setup	Pass
Secondary Timings	BIOS Setup	Pass
Third Timings	BIOS Setup	Pass
Misc.	BIOS Setup	Pass
DRAM Timing	BIOS Setup	Pass
Internal CPU Power Management		
Intel® SpeedStep™	BIOS Setup	Pass
Turbo mode	BIOS Setup	Pass
Turbo mode Parameters	BIOS Setup	Pass

Ai Tweaker			
Test all items of the advanced section with USB Keyboard and Mouse in BIOS setup utility.			
Tweaker's Paradise		O.S. Environment	Status
PLL Post Divider Adjust		BIOS Setup	Pass
Internal PLL Voltage Prefix		BIOS Setup	Pass
Internal PLL Voltage Step Adjustment		BIOS Setup	Pass
VCCU Voltage Offset Prefix		BIOS Setup	Pass
VCCU Voltage Offset		BIOS Setup	Pass
CPU Input Boot Voltage		BIOS Setup	Pass
CPU Input Eventual Voltage		BIOS Setup	Pass
Voltage Check		O.S. Environment	Status
CPU Core Voltage		BIOS Setup	Pass
CPU Cache Voltage		BIOS Setup	Pass
DRAM Voltage(CHA,CHB)		BIOS Setup	Pass
DRAM Voltage(CHC,CHD)		BIOS Setup	Pass
CPU System Agent Voltage Offset Mode Sign		BIOS Setup	Pass
CPU System Agent Voltage Offset		BIOS Setup	Pass
CPU Input Voltage		BIOS Setup	Pass
PCH Core Voltage		BIOS Setup	Pass
PCH I/O Voltage		BIOS Setup	Pass
VCCIO CPU 1.05V Voltage		BIOS Setup	Pass
VCCIO PCH 1.05V Voltage		BIOS Setup	Pass
VTTDDR Voltage(CHA,CHB)		BIOS Setup	Pass
VTTDDR Voltage(CHC,CHD)		BIOS Setup	Pass
PLL Termination Voltage		BIOS Setup	Pass
Digi+ Power Control			
Change different settings then boot into OS, it should match Digi+ Power Control AP in Ai-Suite3.			
Digi+ Power Control	Test item	O.S. Environment	Status
CPU Load-line Calibration	Auto, Level 1~9	BIOS Setup Win10-64 Pro. TH2	Pass
CPU Current Capability	Auto,100%, 110%, 120%, 130%, 140%	BIOS Setup Win10-64 Pro. TH2	Pass
CPU VRM Switching Frequency	Auto, Manual	BIOS Setup Win10-64 Pro. TH2	Pass
VRM Spread Spectrum	Auto, Enable, Disable	BIOS Setup Win10-64 Pro. TH2	Pass
CPU Power Duty Control	T.Probe, Extreme	BIOS Setup Win10-64 Pro. TH2	Pass
CPU Power Phase control	Auto, Standard, Optimized, Extreme, Power Phase Response	BIOS Setup Win10-64 Pro. TH2	Pass
CPU Power Thermal Control	120~141	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Current Capability(CHA, CHB)	100%, 110%, 120%, 130%, 140%	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Current Capability(CHC, CHD)	100%, 110%, 120%, 130%, 140%	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Power Phase control CHA, CHB)	Optimized, Extreme, Standard	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Power Phase control(CHC, CHD)	Optimized, Extreme, Standard	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Switching Frequency CHA, CHB)	Auto, Manual	BIOS Setup Win10-64 Pro. TH2	Pass
DRAM Switching Frequency(CHC, CHD)	Auto, Manual	BIOS Setup Win10-64 Pro. TH2	Pass
Advanced			
Test all items of the advanced section with USB Keyboard and Mouse in BIOS setup utility.			
CPU Configuration		O.S. Environment	Status
Information Check		BIOS Setup	Pass
Hyper-Threading[All]		BIOS Setup	Pass
Active Processor Cores		BIOS Setup Win10-64 Pro. TH2	Pass
Intel Adaptive Thermal Monitor		BIOS Setup	Pass
Limit CUID Maximum		BIOS Setup	Pass
Execute Disable Bit		BIOS Setup Win10-64 Pro. TH2	Pass
Intel Virtualization Technology		BIOS Setup Win10-64 Pro. TH2	Pass
Hardware Prefetcher		BIOS Setup	Pass
Adjacent cache Line Prefetch		BIOS Setup	Pass
Boot performance mode		BIOS Setup	Pass
Maximum CPU Core Temperature		BIOS Setup	Pass
CPU Power Management Configuration		BIOS Setup Win10-64 Pro. TH2	Pass

Advanced			
Test all items of the advanced section with USB Keyboard and Mouse in BIOS setup utility.			
CPU Power Management Configuration		O.S. Environment	Status
<i>Enhanced Intel® SpeedStep™</i>		BIOS Setup Win10-64 Pro. TH2	Pass Refer to Part D
<i>Turbo Mode</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>CPU C states</i>		BIOS Setup Win10-64 Pro. TH2	Pass Refer to Part D
Platform Misc Configuration		O.S. Environment	Status
<i>SA DMI ASPM</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>PEG ASPM Support</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>PCH DMI ASPM</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>ASPM Support</i>		BIOS Setup Win10-64 Pro. TH2	Pass
System Agent Configuration		O.S. Environment	Status
<i>VT-d</i>		BIOS Setup	Pass
<i>DMI Configuration</i>		BIOS Setup	Pass
<i>NB PCI-E Configuration</i>		BIOS Setup	Pass
<i>MCTP</i>		BIOS Setup	Pass
<i>ACS Control</i>		BIOS Setup	Pass
PCH Configuration		O.S. Environment	Status
<i>PCI Express Configuration</i>		BIOS Setup Win10-64 Pro. TH2	Pass
PCH Storage Configuration		O.S. Environment	Status
<i>Hyper kit Mode</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>SATAEXPRESS_1 SRIS Support</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>S.M.A.R.T. Status Check</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>SATA Controller 1 Mode Selection</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>Support Aggressive Link Power Management</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>SATA Controller 2 Mode Selection</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>Support Aggressive Link Power Management</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>Hot Plug</i>		BIOS Setup Win10-64 Pro. TH2	Pass Refer to Part D
<i>Information Check</i>		BIOS Setup	Pass Refer to Part D
USB Configuration		O.S. Environment	Status
<i>Information Check</i>		BIOS Setup	Pass
<i>Intel xHCI mode</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>EHCI Legacy Support</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>XHCI Hand-off</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>EHCI Hand-off</i>		BIOS Setup Win10-64 Pro. TH2	Pass
<i>USB Single Port Control</i>		BIOS Setup Win10-64 Pro. TH2	Pass
Network Stack Configuration		O.S. Environment	Status
<i>Network Stack</i>		BIOS Setup Win10-64 Pro. TH2	Pass

Advanced		
Test all items of the advanced section with USB Keyboard and Mouse in BIOS setup utility.		
Onboard Devices Configuration	O.S. Environment	Status
<i>HD Audio Controller</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Front Panel Type</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>SPDIF Out Type</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>PCIEX16_2 Bandwidth</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>PCIEXU.2_2 Bandwidth</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>PCIEX16_5 Bandwidth</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Asmedia USB 3.1 Controller</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Asmedia USB 3.1 Battery Charging Support</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>RGB LED Lighting</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>RGB LED Lighting effects</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Bluetooth Controller</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Intel LAN1 Controller</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Intel LAN2 Controller</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Intel LAN1 PXE Option ROM</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Intel LAN2 PXE Option ROM</i>	BIOS Setup Win10-64 Pro.TH2	Pass
<i>Wi-Fi Controller</i>	BIOS Setup Win10-64 Pro.TH2	Pass
APM Configuration	O.S. Environment	Status
<i>ErP Ready</i>	BIOS Setup	Pass
<i>Restore on AC Power Loss</i>	BIOS Setup	Pass
<i>Power On By PCI-E/PCI</i>	BIOS Setup	Pass
<i>Power On By RTC</i>	BIOS Setup	Pass Refer to Part D
HDD/SSD SMART Information	O.S. Environment	Status
<i>HDD/SSD SMART Information</i>	BIOS Setup	Pass Refer to Part D
Intel Thunderbolt Configuration	O.S. Environment	Status
<i>Information check</i>	BIOS Setup	Pass
<i>Intel Thunderbolt Technology</i>	BIOS Setup Win10-64 Pro. TH2	Pass Refer to Part D
Intel(R) Rapid Storage Technology	O.S. Environment	Status
<i>Information Check</i>	BIOS Setup	Pass
<i>RAID Building</i>	BIOS Setup Win10-64 Pro. TH2	Pass
Intel(R) Ethernet Connection I218-V	O.S. Environment	Status
<i>Information check</i>	BIOS Setup	Pass
Intel(R) Ethernet Connection I211-V	O.S. Environment	Status
<i>Information check</i>	BIOS Setup	Pass
Monitor		
Test all items of the power section with USB Keyboard and Mouse in BIOS setup utility.		
Hardware Monitor	O.S. Environment	Status
<i>CPU Temperature</i>	BIOS Setup	Pass
<i>MotherBoard Temperature</i>	BIOS Setup	Pass
<i>PCIEX16_1 Slot Temperature</i>	BIOS Setup	Pass
<i>PCIEX16_3 Slot Temperature</i>	BIOS Setup	Pass
<i>VRM Temperature</i>	BIOS Setup	Pass
<i>PCH Temperature</i>	BIOS Setup	Pass
<i>T_Sensor1 Temperature</i>	BIOS Setup	Pass
<i>EXT_Sensor 1~3 Temperature</i>	BIOS Setup	Pass
<i>CPU Fan Speed</i>	BIOS Setup	Pass
<i>CPU Optional Fan Speed</i>	BIOS Setup	Pass
<i>Water Pump Speed</i>	BIOS Setup	Pass
<i>HAMP Fan Speed</i>	BIOS Setup	Pass

Monitor		
Test all items of the power section with USB Keyboard and Mouse in BIOS setup utility.		
Hardware Monitor	O.S. Environment	Status
<i>Chassis Fan 1~2 Speed</i>	BIOS Setup	Pass
<i>Extension FAN 1~3 Speed</i>	BIOS Setup	Pass
<i>CPU Core Voltage</i>	BIOS Setup	Pass
<i>3.3 Voltage</i>	BIOS Setup	Pass
<i>5V Voltage</i>	BIOS Setup	Pass
<i>12V Voltage</i>	BIOS Setup	Pass
<i>CPU Q-Fan Control</i>	BIOS Setup	Pass
<i>CPU Fan Step Up</i>	BIOS Setup	Pass
<i>CPU Fan Step Down</i>	BIOS Setup	Pass
<i>CPU Fan Speed Lower Limit</i>	BIOS Setup	Pass
<i>CPU Fan Profile</i>	BIOS Setup	Pass
<i>Chassis FAN 1~2 Q-FAN Control</i>	BIOS Setup	Pass Refer to Part D
<i>Chassis FAN 1~2 Q-FAN Source</i>	BIOS Setup	Pass
<i>Chassis FAN 1~2 Step Up</i>	BIOS Setup	Pass
<i>Chassis FAN 1~2 Step Down</i>	BIOS Setup	Pass
<i>Chassis FAN 1~2 Speed Lower Limit</i>	BIOS Setup	Pass
<i>Chassis FAN 1~2 Profile</i>	BIOS Setup	Pass
<i>HAMP Fan Control</i>	BIOS Setup	Pass
<i>HAMP Fan Q-FAN Source</i>	BIOS Setup	Pass
<i>HAMP Fan Step Up</i>	BIOS Setup	Pass
<i>HAMP Fan Step Down</i>	BIOS Setup	Pass
<i>HAMP Fan Speed Lower Limit</i>	BIOS Setup	Pass
<i>HAMP Fan Profile</i>	BIOS Setup	Pass
<i>Water Pump Control</i>	BIOS Setup	Pass
<i>Extension FAN 1~3 Q-FAN Control</i>	BIOS Setup	Pass
<i>Extension FAN 1~3 Q-FAN Source</i>	BIOS Setup	Pass
<i>Extension FAN 1~3 Speed Lower Limit</i>	BIOS Setup	Pass
<i>Extension FAN 1~3 Profile</i>	BIOS Setup	Pass
<i>Anti-Surge Support</i>	BIOS Setup	Pass
<i>Chassis Intrude Detect Support</i>	BIOS Setup	Pass
<i>CPU Temperature LED Switch</i>	BIOS Setup	Pass
Boot		
Test all items of the boot section with USB Keyboard and Mouse in BIOS setup utility.		
Fast boot	O.S. Environment	Status
<i>Fast Boot</i>	BIOS Setup BIOS POST	Pass Refer to Part D
<i>SATA Support</i>	BIOS Setup BIOS POST	Pass
<i>USB Support</i>	BIOS Setup BIOS POST	Pass
<i>Network Stack Driver Support</i>	BIOS Setup BIOS POST	Pass
<i>Next Boot after AC Power Loss</i>	BIOS Setup BIOS POST	Pass
<i>Redirection Support</i>	BIOS Setup BIOS POST	Pass
Boot Settings Configuration	O.S. Environment	Status
<i>Boot Logo Display</i>	BIOS Setup BIOS POST	Pass
<i>POST Delay Time</i>	BIOS Setup BIOS POST	Pass
<i>DirectKey(DRCT)</i>	BIOS Setup Win10-64 Pro. TH2	Pass
<i>Boot up NumLock State</i>	BIOS Setup BIOS POST	Pass
<i>Wait For 'F1' If Error</i>	BIOS Setup BIOS POST	Pass
<i>Option ROM Message</i>	BIOS Setup BIOS POST	Pass
<i>INT19 Trap Response</i>	BIOS Setup BIOS POST	Pass
<i>Above 4G Decoding</i>	BIOS Setup BIOS POST	Pass
<i>Wait For 'F1' If Error</i>	BIOS Setup BIOS POST	Pass
<i>Setup Mode</i>	BIOS Setup BIOS POST	Pass

Boot		
Test all items of the boot section with USB Keyboard and Mouse in BIOS setup utility.		
Boot Settings Configuration	O.S. Environment	Status
CSM (Compatibility Support Module)	BIOS Setup BIOS POST	Pass
Secure Boot	BIOS Setup BIOS POST	Pass
CSM Parameters	O.S. Environment	Status
Launch CSM	BIOS Setup BIOS POST	Pass
Boot Device control	BIOS Setup BIOS POST	Pass
Boot from Network Devices	BIOS Setup BIOS POST	Pass
Boot from Storage Devices	BIOS Setup BIOS POST	Pass
Boot from PCI-E/PCI Expansion Devices	BIOS Setup BIOS POST	Pass
Security Boot Parameters	O.S. Environment	Status
OS Type	BIOS Setup BIOS POST	Pass
Key management	BIOS Setup BIOS POST	Pass
Boot Option Priorities	O.S. Environment	Status
1st Boot Device	BIOS Setup BIOS POST	Pass
2nd Boot Device	BIOS Setup BIOS POST	Pass
3rd Boot Device	BIOS Setup BIOS POST	Pass
4th Boot Device	BIOS Setup BIOS POST	Pass
5th Boot Device	BIOS Setup BIOS POST	Pass
Other Boot Device	BIOS Setup BIOS POST	Pass
Hard Disk Drives	BIOS Setup	Pass
CD-ROM Drives	BIOS Setup	Pass
Removable Drives	BIOS Setup	Pass
1st Boot Device	BIOS Setup BIOS POST	Pass
Boot Override	O.S. Environment	Status
Boot Override From ODD	BIOS Setup BIOS POST	Pass
Boot Override From HDD	BIOS Setup BIOS POST	Pass
Boot Override From UEFI	BIOS Setup BIOS POST	Pass
CD/DVD ROM Drive BBS Priorities	BIOS Setup BIOS POST	Pass Refer to PART D
Hard Drive BBS Priorities	BIOS Setup BIOS POST	Pass
Network Device BBS Priorities	BIOS Setup BIOS POST	Pass
Tools		
Test all items of the tools section with USB Keyboard and Mouse in BIOS setup utility.		
Tool	O.S. Environment	Status
ASUS EZ Flash 3 Utility	BIOS Setup	Pass Refer to PART D
Secure Erase	BIOS Setup	Pass
Setup Animator	BIOS Setup	Pass
ASUS Overclocking Profile	BIOS Setup	Pass
ASUS SPD Information	BIOS Setup	Pass
GPU POST	BIOS Setup	Pass Refer to PART D
ASUS EZ Flash3 Utility	O.S. Environment	Status
ASUS EZ Flash 3	BIOS Setup	Pass Refer to PART D
Secure Erase	O.S. Environment	Status
Secure Erase	BIOS Setup	Pass

Tools		
Test all items of the tools section with USB Keyboard and Mouse in BIOS setup utility.		
ASUS Overclocking Profile	O.S. Environment	Status
Load from Profile	BIOS Setup	Pass
Profile Name	BIOS Setup	Pass
Save to Profile	BIOS Setup	Pass
Load/Save Profile from/to USB Drive	BIOS Setup	Pass
ASUS SPD Infomation	O.S. Environment	Status
ASUS SPD Information	BIOS Setup	Pass
GPU POST	O.S. Environment	Status
Graphics Card Information	BIOS Setup	Pass
Exit		
Test all items of the exit section with USB Keyboard and Mouse in BIOS setup utility.		
Exit items	O.S. Environment	Status
Load Optimized Defaults	BIOS Setup	Pass
Save Changes &Reset	BIOS Setup	Pass
Discard Changes & Exit	BIOS Setup	Pass
Launch EFI Shell From USB drivers	BIOS Setup	Pass
Tool Bar		
Test all items of the exit section with USB Keyboard and Mouse in BIOS setup utility.		
Hotkey function	O.S. Environment	Status
My Favorite (F3)	BIOS Setup	Pass Refer to PART D
Qfan Control (F6)	BIOS Setup	Pass
EZ Tuning Wizard (F11)	BIOS Setup	Pass
Quick Note (F9)	BIOS Setup	Pass
Hot Key	BIOS Setup	Pass
Special Keys		
Test all function keys with USB Keyboard and Mouse in BIOS setup utility.		
Function Key	O.S. Environment	Status
F1	BIOS Setup	Pass
F2	BIOS Setup	Pass
F3	BIOS Setup	Pass
F5	BIOS Setup	Pass
F6	BIOS Setup	Pass
F7	BIOS Setup	Pass
F10	BIOS Setup	Pass
F11	BIOS Setup	Pass
F12	BIOS Setup	Pass
Other Key	O.S. Environment	Status
← →	BIOS Setup	Pass
↑ ↓	BIOS Setup	Pass
+ -	BIOS Setup	Pass
Enter	BIOS Setup	Pass
PGDN	BIOS Setup	Pass
PGUP	BIOS Setup	Pass
HOME	BIOS Setup	Pass
END	BIOS Setup	Pass
ESC	BIOS Setup	Pass
POST Screen		
Check all the information provides and shows correctly with USB Keyboard and Mouse during POST screen.		
String	O.S. Environment	Status
Copyright	BIOS POST	Pass
CPU	BIOS POST	Pass
Memory	BIOS POST	Pass
SATA	BIOS POST	Pass
USB	BIOS POST	Pass
Boot Failure	BIOS POST	Pass
Hot Key	O.S. Environment	Status
DEL or F2	BIOS POST	Pass
F8	BIOS POST	Pass
Logo	O.S. Environment	Status
ASUS Full Screen Logo	BIOS POST	Pass
Windows 10 Logo	BIOS POST	Pass

Beep Code		
Check all the beep information shows correctly during POST screen with buzzer and PC speaker.		
Normal	O.S. Environment	Status
VGA Found	BIOS POST	Pass
System Boot	BIOS POST	Pass
Error	O.S. Environment	Status
No Memory Found	BIOS POST	Pass
No Keyboard Found	BIOS POST	Pass
Hardware Monitor error	BIOS POST	Pass
No VGA Found	BIOS POST	Pass Refer to PART D
BIOS all items		
Check BIOS all items should work normally.		
Normal	O.S. Environment	Status
All items	BIOS POST	Pass
UEFI OS Check		
Check after flash BIOS then it can enter OS normally.		
Normal	O.S. Environment	Status
UEFI OS Check	Win10 Pro. TH2	Pass
SLP String		
Check SLP information can be added and work normally.		
Normal	O.S. Environment	Status
SLP 2.1	Win7-64 Ultimate SP1	Pass

3. ASUS Feature Test

ASUS Feature		
Test all the functionalities of ASUS Feature.		
C.P.R.	O.S. Environment	Status
AC Power Loss	BIOS Setup BIOS POST	Pass
Power Button > 4 seconds	BIOS Setup BIOS POST	Pass
CrashFree BIOS 3	O.S. Environment	Status
CrashFree BIOS 3 function	BIOS Setup BIOS POST	Pass
Crash in DOS flash tool or ASUS EZ flash 3	MS-DOS V6.22 BIOS POST	Pass
Crash in ASUS EZ Update	Win10-64 Pro. TH2 BIOS POST	Pass
ODD	MS-DOS V6.22 BIOS POST	Pass
USB	MS-DOS V6.22 BIOS POST	Pass
BIOS FlashBack	O.S. Environment	Status
Crash in DOS flash tool or ASUS EZ flash 3	MS-DOS V6.22 BIOS POST	Pass
Crash in ASUS EZ Update	Win10-64 Pro. TH2 BIOS POST	Pass
USB Flash Back	O.S. Environment	Status
Flash BIOS by USB flash via S5 states	BIOS Setup BIOS POST	Pass
New CPU	O.S. Environment	Status
New CPU Installed	BIOS POST	Pass
Pressing F1 after changed CPU	BIOS POST	Pass
Thermal Shutdown	O.S. Environment	Status
CPU Over Heat	BIOS Setup	Pass
USB Over Current	O.S. Environment	Status
5V Dual(USB2.0)	BIOS POST	Pass
5V Dual(USB3.0)	BIOS POST	Pass
5V Dual(USB3.1)	BIOS POST	Pass
EC Firmware recovery	O.S. Environment	Status
EC firmware update function	BIOS POST	Pass

4. System Utility Test

System Utility		
Use various ways to test the BIOS and run some utilities programs.		
Items	O.S. Environment	Status
<i>Bupdater V1.31</i>	MS-DOS V6.22	Pass

5. System Diagnostic Test

System Diagnostics		
Run the different types of system diagnostics tests.		
Diagnostics	O.S. Environment	Status
<i>Pass Mark Burn In Test PRO V8.1</i>	Win10-64 Pro. TH2	Pass
<i>Sisoftware Sandra Lite V21.42</i>	Win10-64 Pro. TH2	Pass

6. Stress Test

Stress Test		
Run the aging programs over 12 hours to test system stable-ability under Windows 8.1.		
Items	O.S. Environment	Status
<i>Pass Mark Burn In Test PRO V8.1</i>	Win10-64 Pro. TH2	Pass
RTC	O.S. Environment	Status
<i>Power On/Off test</i>	MS-DOS V6.22	Pass
Memory	O.S. Environment	Status
<i>Memtest86+ V5.01</i>	Caldera DR-DOS	Pass

PART B. OPERATING SYSTEM ENVIRONMENT TEST

1. Microsoft Windows 7 Operating System Test

1.1 Software Compatibility Test

1.1.1 Operating System Compatibility

Operating System Test		
Install all versions of Windows 7 (Windows 7 Home Premium, Windows 7 Ultimate), and make sure all necessary drivers can be installed. Then we must check all available connectors, jumpers, sockets and slots. Make sure the compatibility and functions of these features match the specific requirement.		
Package Name	O.S. Environment	Status
Preparatory items	Win7 Ultimate SP1	Pass
OS Installation with SP1(Windows 7 Ultimate)	Win7 Ultimate SP1	Pass
Log in check	Win7 Ultimate SP1	Pass
Multi-Language (ENG · CHT · CHS · JPN · DEU · ESN · FRA · RUS · KOR)	Win7 Ultimate SP1	Pass
Reboot test	Win7 Ultimate SP1	Pass
Shutdown test	Win7 Ultimate SP1	Pass

1.1.2 Supporting Software Compatibility

Support CD For Win7 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Check Sum	O.S. Environment	Status
MB PES Check	Win7 Ultimate SP1	Pass
Release CD or DVD checksum number : C315A854	Win7 Ultimate SP1	Pass
Release CD or DVD checksum MD5 number: 3924338472156db73af041b4c3de9209	Win7 Ultimate SP1	Pass
Drivers Menu	O.S. Environment	Status
Autorun test	Win7 Ultimate SP1	Pass
Label & Icon check	Win7 Ultimate SP1	Pass
Logo check	Win7 Ultimate SP1	Pass
Bupdater test and version check	Win7 Ultimate SP1	Pass
BIOS file check	Win7 Ultimate SP1	Pass
ASUS InstAll - Recommend	Win7 Ultimate SP1	Pass
Google Chrome Browser	Win7 Ultimate SP1	Pass
Google Toolbar	Win7 Ultimate SP1	Pass
Intel Chipset Driver	Win7 Ultimate SP1	Pass
Realtek Audio Driver and Application	Win7 Ultimate SP1	Pass
Intel(R) Gigabit Ethernet Driver and Utility	Win7 Ultimate SP1	Pass
Intel IRST Driver and Application	Win7 Ultimate SP1	Pass
ASMedia USB3.1/3.0 Driver	Win7 Ultimate SP1	Pass
Intel USB3.0 Driver	Win7 Ultimate SP1	Pass
Intel(R) Management Engine Interface	Win7 Ultimate SP1	Pass
Broadcom Wireless LAN adapter Driver and utility	Win7 Ultimate SP1	Pass
Bluetooth Driver	Win7 Ultimate SP1	Pass
Microsoft .NET Framework	Win7 Ultimate SP1	Pass
Utilities Menu	O.S. Environment	Status
Utilities Manual Icon	Win7 Ultimate SP1	Pass
ASUS AI Suite 3	Win7 Ultimate SP1	Pass
ASUS Ai Charger+	Win7 Ultimate SP1	Pass
ASUS Dual Intelligent Processors 5	Win7 Ultimate SP1	Pass
ASUS PC Cleanner	Win7 Ultimate SP1	Pass
ASUS EZ Update	Win7 Ultimate SP1	Pass
ASUS Mobo Connect	Win7 Ultimate SP1	Pass
ASUS Push Notice	Win7 Ultimate SP1	Pass
ASUS KeyBotII	Win7 Ultimate SP1	Pass
ASUS System Information	Win7 Ultimate SP1	Pass
ASUS USB 3.1 Boost	Win7 Ultimate SP1	Pass
ASUS USB BIOS Flashback	Win7 Ultimate SP1	Pass
ASUS WiFi Engine	Win7 Ultimate SP1	Pass
Adobe Reader XI	Win7 Ultimate SP1	Pass
AntiVirus(Kaspersky)	Win7 Ultimate SP1	Pass
DAEMON Tools	Win7 Ultimate SP1	Pass
Disk Unlocker	Win7 Ultimate SP1	Pass
ASUS MemTweakIt	Win7 Ultimate SP1	Pass
ROGGameFirst IV	Win7 Ultimate SP1	Pass
ASUS Push Notice	Win7 Ultimate SP1	Pass

Support CD For Win7 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Utilities Menu	O.S. Environment	Status
<i>ASUS Product Registration Program</i>	Win7 Ultimate SP1	Pass
<i>ASUS PC Diagnostic</i>	Win7 Ultimate SP1	Pass
<i>ASUS WebStorage</i>	Win7 Ultimate SP1	Pass
<i>WinZip</i>	Win7 Ultimate SP1	Pass
<i>ASUS HomeCloudLauncher</i>	Win7 Ultimate SP1	Pass
<i>ASUS Media Streamer</i>	Win7 Ultimate SP1	Pass
<i>ASUS Wi-Fi GO!</i>	Win7 Ultimate SP1	Pass
<i>ASUS ROG CPU-Z</i>	Win7 Ultimate SP1	Pass
<i>ASUS AO Help</i>	Win7 Ultimate SP1	Pass
<i>Turbo LAN</i>	Win7 Ultimate SP1	Pass
<i>ASUS AURA</i>	Win7 Ultimate SP1	Pass
<i>ASUS EZ Installer</i>	Win7 Ultimate SP1	Pass
<i>LOGO Folder</i>	Win7 Ultimate SP1	Pass
Manual Menu	O.S. Environment	Status
<i>Manual</i>	Win7 Ultimate SP1	Pass Refer to PART D
Other Information	O.S. Environment	Status
<i>Browser CD</i>	Win7 Ultimate SP1	Pass
<i>File list</i>	Win7 Ultimate SP1	Pass
CrashFree Function	O.S. Environment	Status
<i>Crash-Free Function Test</i>	Win7 Ultimate SP1	Pass
Multi-Language Support	O.S. Environment	Status
<i>English</i>	Win7 Ultimate SP1	Pass
<i>Chinese-Simplified</i>	Win7 Ultimate SP1	Pass
<i>Chinese-Traditional</i>	Win7 Ultimate SP1	Pass
<i>Japanese</i>	Win7 Ultimate SP1	Pass
<i>German</i>	Win7 Ultimate SP1	Pass
<i>Spanish</i>	Win7 Ultimate SP1	Pass
<i>Russia</i>	Win7 Ultimate SP1	Pass
<i>French</i>	Win7 Ultimate SP1	Pass
<i>Korean</i>	Win7 Ultimate SP1	Pass

2. Microsoft Windows 7 64-Bit Operating System Test

2.1 Software Compatibility Test

2.1.1 Operating System Compatibility

Operating System Test		
Install all versions of Windows 7-64 (Windows 7-64 Pro. and make sure all necessary drivers can be installed. Then we must check all available connectors, jumpers, sockets and slots. Make sure the compatibility and functions of these features match the specific requirement.		
Package Name	O.S. Environment	Status
Preparatory items	Win7-64 Ultimate SP1	Pass
OS Installation (Windows 7 Ultimate X64)	Win7-64 Ultimate SP1	Pass
Multi-Language (ENG · CHT · CHS · JPN · DEU · ESN · FRA · RUS · KOR)	Win7-64 Ultimate SP1	Pass
Log in check	Win7-64 Ultimate SP1	Pass
Reboot test	Win7-64 Ultimate SP1	Pass
Shutdown test	Win7-64 Ultimate SP1	Pass
Maximum DIMM Install & test	Win7-64 Ultimate SP1	Pass

2.1.3 Supporting Software Compatibility

Support CD For Win7-64 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Check Sum	O.S. Environment	Status
MB PES Check	Win7-64 Ultimate SP1	Pass
Release CD or DVD checksum number : C315A854	Win7-64 Ultimate SP1	Pass
Release CD or DVD checksum MD5 number: 3924338472156db73af041b4c3de9209	Win7-64 Ultimate SP1	Pass
Drivers Menu	O.S. Environment	Status
Autorun test	Win7-64 Ultimate SP1	Pass
Label & Icon check	Win7-64 Ultimate SP1	Pass
Logo check	Win7-64 Ultimate SP1	Pass
Bupdater test and version check	Win7-64 Ultimate SP1	Pass
BIOS file check	Win7-64 Ultimate SP1	Pass
ASUS InstAll - Recommend	Win7-64 Ultimate SP1	Pass
Google Chrome Browser	Win7-64 Ultimate SP1	Pass
Google Toolbar	Win7-64 Ultimate SP1	Pass
Intel Chipset Driver	Win7-64 Ultimate SP1	Pass
Intel Turbo Boost Max Technology 3.0 Driver	Win7-64 Ultimate SP1	Pass Refer to PART D
Realtek Audio Driver and Application	Win7-64 Ultimate SP1	Pass
Intel(R) Gigabit Ethernet Driver and Utility	Win7-64 Ultimate SP1	Pass
Intel IRST Driver and Application	Win7-64 Ultimate SP1	Pass
ASMedia USB3.1/3.0 Driver	Win7-64 Ultimate SP1	Pass
Intel USB3.0 Driver	Win7-64 Ultimate SP1	Pass
Intel(R) Management Engine Interface	Win7-64 Ultimate SP1	Pass
Broadcom Wireless LAN adapter Driver and utility	Win7-64 Ultimate SP1	Pass
Bluetooth Driver	Win7-64 Ultimate SP1	Pass
Microsoft .NET Framework	Win7-64 Ultimate SP1	Pass
Utilities Menu	O.S. Environment	Status
Utilities Manual Icon	Win7-64 Ultimate SP1	Pass
ASUS AI Suite 3	Win7-64 Ultimate SP1	Pass
ASUS Ai Charger+	Win7-64 Ultimate SP1	Pass
ASUS Dual Intelligent Processors 5	Win7-64 Ultimate SP1	Pass
ASUS PC Cleanner	Win7-64 Ultimate SP1	Pass
ASUS EZ Update	Win7-64 Ultimate SP1	Pass
ASUS Mobo Connect	Win7-64 Ultimate SP1	Pass
ASUS Push Notice	Win7-64 Ultimate SP1	Pass
ASUS System Information	Win7-64 Ultimate SP1	Pass
ASUS USB 3.1 Boost	Win7-64 Ultimate SP1	Pass
ASUS USB BIOS Flashback	Win7-64 Ultimate SP1	Pass
ASUS Media Streamer	Win7-64 Ultimate SP1	Pass
Adobe Reader XI	Win7-64 Ultimate SP1	Pass
AntiVirus(Kaspersky)	Win7-64 Ultimate SP1	Pass
DAEMON Tools	Win7-64 Ultimate SP1	Pass
Disk Unlocker	Win7-64 Ultimate SP1	Pass
ASUS MemTweakIt	Win7-64 Ultimate SP1	Pass
ROGGameFirst IV	Win7-64 Ultimate SP1	Pass
ASUS RAMCACHE	Win7-64 Ultimate SP1	Pass

Support CD For Win7-64 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Utilities Menu	O.S. Environment	Status
ASUS Product Registration Program	Win7-64 Ultimate SP1	Pass
ASUS RAMDisk	Win7-64 Ultimate SP1	Pass
ASUS PC Diagnostic	Win7-64 Ultimate SP1	Pass
ASUS WebStorage	Win7-64 Ultimate SP1	Pass
WinZip	Win7-64 Ultimate SP1	Pass
ASUS KeyBotll	Win7-64 Ultimate SP1	Pass
ASUS HomeCloudLauncher	Win7-64 Ultimate SP1	Pass
ASUS Wi-Fi GO!	Win7-64 Ultimate SP1	Pass
ASUS ROGCPU-Z	Win7-64 Ultimate SP1	Pass
ASUS Boot Setting	Win7-64 Ultimate SP1	Pass
ASUS AO Help	Win7-64 Ultimate SP1	Pass
ASUS AURA	Win7-64 Ultimate SP1	Pass
ASUS EZ Installer	Win7-64 Ultimate SP1	Pass
LOGO Folder	Win7-64 Ultimate SP1	Pass
Manual Menu	O.S. Environment	Status
Manual	Win7-64 Ultimate SP1	Pass Refer to PART D
Other Information	O.S. Environment	Status
Browser CD	Win7-64 Ultimate SP1	Pass
File list	Win7-64 Ultimate SP1	Pass
CrashFree Function	O.S. Environment	Status
Crash-Free Function Test	Win7-64 Ultimate SP1	Pass
Multi-Language Support	O.S. Environment	Status
English	Win7-64 Ultimate SP1	Pass
Chinese-Simplified	Win7-64 Ultimate SP1	Pass
Chinese-Traditional	Win7-64 Ultimate SP1	Pass
Japanese	Win7-64 Ultimate SP1	Pass
German	Win7-64 Ultimate SP1	Pass
Spanish	Win7-64 Ultimate SP1	Pass
Russia	Win7-64 Ultimate SP1	Pass
French	Win7-64 Ultimate SP1	Pass
Korean	Win7-64 Ultimate SP1	Pass

2.1.4 ASUS Utilities Functional Compatibility

ASUS AI Suite 3		
Follow the test procedure to test AI Suite 3 and make sure all the functions are normal.		
Package Name	O.S. Environment	Status
Driver	Win7-64 Ultimate SP1	Pass
Multi-Language	Win7-64 Ultimate SP1	Pass
Function test	Win7-64 Ultimate SP1	Pass
Function button test	Win7-64 Ultimate SP1	Pass
Uninstall	Win7-64 Ultimate SP1	Pass
Utility Function	O.S. Environment	Status
Tool	Ai Charger+	Win7-64 Ultimate SP1
	Dual Intelligent Processors 5	Win7-64 Ultimate SP1
ASUS AI Suite 3		
Follow the test procedure to test AI Suite 3 and make sure all the functions are normal.		
Utility Function	O.S. Environment	Status
Tool	Key Express	Win7-64 Ultimate SP1
	Mobo Connect	Win7-64 Ultimate SP1
	Push Notice	Win7-64 Ultimate SP1
	USB 3.1 Boost	Win7-64 Ultimate SP1
	WiFi Engine	Win7-64 Ultimate SP1
Monitor	Sensor	Win7-64 Ultimate SP1
	CPU Frequency	Win7-64 Ultimate SP1
Update	EZ Update	Win7-64 Ultimate SP1
	Mylogo	Win7-64 Ultimate SP1
	USB BIOS Flashback	Win7-64 Ultimate SP1
System Information	O.S. Environment	Status
MB	Win7-64 Ultimate SP1	Pass
CPU	Win7-64 Ultimate SP1	Pass
SPD	Win7-64 Ultimate SP1	Pass
Setting	O.S. Environment	Status
Application Status	Win7-64 Ultimate SP1	Pass
Bar	Win7-64 Ultimate SP1	Pass
Skin	Win7-64 Ultimate SP1	Pass

2.1.4 System Special Functional Compatibility

ACPI BIOS Test

Follow the test procedure to test to ACPI and make sure all the functions are normal.

Package Name	O.S. Environment	Status
FAN work	Win7-64 Ultimate SP1	Pass
Power Button	Win7-64 Ultimate SP1	Pass
Hybrid sleepTest	Win7-64 Ultimate SP1	Pass
Power supply fanwork	Win7-64 Ultimate SP1	Pass
Timer Power Saving	Win7-64 Ultimate SP1	Pass
Suspend Simulation	Win7-64 Ultimate SP1	Pass
External Signal to Wake up (S3)	Win7-64 Ultimate SP1	Pass
External Signal to Wake up (S4)	Win7-64 Ultimate SP1	Pass
External Signal to Wake up (S5)	Win7-64 Ultimate SP1	Pass
External Signal to Wake up (S5)(Enable ErP funtion)	Win7-64 Ultimate SP1	Pass

2.2 Hardware Compatibility Test

2.2.1 System device functionality and Capability

On-board Audio

Follow the test procedure to test on-board Audio driver and make sure all the functions are normal.

Package Name	O.S. Environment	Status
Install new driver & Check WHQL	Win7-64 Ultimate SP1	Pass
Disable audio under BIOS	Win7-64 Ultimate SP1	Pass
Check Driver SSID & PCI SSID	Win7-64 Ultimate SP1	Pass
Uninstall driver	Win7-64 Ultimate SP1	Pass
Noise check		
Pop sound check	Win7-64 Ultimate SP1	Pass Refer to PART D
Back Output-playing		
Play MP3 with Media player	Win7-64 Ultimate SP1	Pass
Play Dolby Digital 5.1	Win7-64 Ultimate SP1	Pass
Play LPCM 7.1	Win7-64 Ultimate SP1	Pass
Content protection	Win7-64 Ultimate SP1	Pass
Check Balance Controller function	Win7-64 Ultimate SP1	Pass
Work after resume from S3	Win7-64 Ultimate SP1	Pass
Work after resume from S4	Win7-64 Ultimate SP1	Pass
DTS function	Win7-64 Ultimate SP1	Pass
RMAA Tool	Win7-64 Ultimate SP1	Pass
Back Input-recording		
Playback volume control	Win7-64 Ultimate SP1	Pass
Recording function	Win7-64 Ultimate SP1	Pass
Check Balance Controller function	Win7-64 Ultimate SP1	Pass
Work after resume from S3	Win7-64 Ultimate SP1	Pass
Work after resume from S4	Win7-64 Ultimate SP1	Pass
Boost function	Win7-64 Ultimate SP1	Pass

On-board Audio

Follow the test procedure to test on-board Audio driver and make sure all the functions are normal.

Output-SPDIF	O.S. Environment	Status
Play MP3 with Media Play	Win7-64 Ultimate SP1	Pass
DTS function	Win7-64 Ultimate SP1	Pass
Play Dolby Digital 5.1	Win7-64 Ultimate SP1	Pass
Set Sample rate as 192KHz / Bit Depth as 16/24	Win7-64 Ultimate SP1	Pass
Power on/off system 3 times	Win7-64 Ultimate SP1	Pass
Work after resume from S3	Win7-64 Ultimate SP1	Pass
Set Spdif out Type HDMI and play MP3	Win7-64 Ultimate SP1	Pass
Communication software		
Skype	Win7-64 Ultimate SP1	Pass
Front Output-playing		
Play DRM WMA with Media player	Win7-64 Ultimate SP1	Pass
Check Balance Controller function	Win7-64 Ultimate SP1	Pass
Work after resume from S3	Win7-64 Ultimate SP1	Pass
Jack-retasking	Win7-64 Ultimate SP1	Pass
Jack-detection	Win7-64 Ultimate SP1	Pass
Multi-streaming	Win7-64 Ultimate SP1	Pass
DTS function	Win7-64 Ultimate SP1	Pass
AMP function	Win7-64 Ultimate SP1	Pass
UI new function for Headphone&Speaker	Win7-64 Ultimate SP1	Pass

On-board Audio			
Follow the test procedure to test on-board Audio driver and make sure all the functions are normal.			
Front Panel Type		O.S. Environment	Status
BIOS AC97	AC97 Panel	Win7-64 Ultimate SP1	Pass
BIOS HD	HD Panel	Win7-64 Ultimate SP1	Pass
DTS Studio Sound 2		O.S. Environment	Status
On/Off		Win7-64 Ultimate SP1	Pass Refer to PART D
DTS Connect		O.S. Environment	Status
On/Off		Win7-64 Ultimate SP1	Pass
AMP UI New function		O.S. Environment	Status
On/Off		Win7-64 Ultimate SP1	Pass
AMP function		O.S. Environment	Status
On/Off		Win7-64 Ultimate SP1	Pass
On-board Bluetooth			
Test the on-board Bluetooth and verify the driver support and functionalities.			
Package Name		O.S. Environment	Status
Bluetooth driver		Win7-64 Ultimate SP1	Pass
MAC address		Win7-64 Ultimate SP1	Pass
Works after resume from S3		Win7-64 Ultimate SP1	Pass
Works after resume from S4		Win7-64 Ultimate SP1	Pass
Searching Bluetooth Device		Win7-64 Ultimate SP1	Pass
Huge Files transfer		Win7-64 Ultimate SP1	Pass
Transit distance		Win7-64 Ultimate SP1	Pass
Uninstall driver		Win7-64 Ultimate SP1	Pass
Other Common Bluetooth Profile Test		O.S. Environment	Status
A2DP		Win7-64 Ultimate SP1	Pass
AVRCP		Win7-64 Ultimate SP1	Pass
HID		Win7-64 Ultimate SP1	Pass
Bluetooth Device Compatibility Test		O.S. Environment	Status
Ear Phone		Win7-64 Ultimate SP1	Pass
Keyboard		Win7-64 Ultimate SP1	Pass
Mobile Phone		Win7-64 Ultimate SP1	Pass
Mouse		Win7-64 Ultimate SP1	Pass
On-board Wireless LAN			
Test the on-board Wireless LAN and verify the driver support and functionalities.			
Package Name		O.S. Environment	Status
Wireless driver		Win7-64 Ultimate SP1	Pass
Works after resume from suspend S3		Win7-64 Ultimate SP1	Pass
Works after resume from suspend S4		Win7-64 Ultimate SP1	Pass
LAN application or diagnostic program		Win7-64 Ultimate SP1	Pass
Disable Function		Win7-64 Ultimate SP1	Pass
System performance impact		Win7-64 Ultimate SP1	Pass
Uninstall driver		Win7-64 Ultimate SP1	Pass
802.11n		Win7-64 Ultimate SP1	Pass
802.11ac		Win7-64 Ultimate SP1	Pass
DATA Transfer		Win7-64 Ultimate SP1	Pass
Miracast		Win7-64 Ultimate SP1	Pass
LAN Stress test		Win7-64 Ultimate SP1	Pass
On-board Intel I218V LAN			
Follow the test procedure to test on-board LAN driver and make sure all the functions are normal.			
Package Name		O.S. Environment	Status
LAN adapter driver		Win7-64 Ultimate SP1	Pass
Disable Function		Win7-64 Ultimate SP1	Pass
Works after resume from suspend S3		Win7-64 Ultimate SP1	Pass
Works after resume from suspend S4		Win7-64 Ultimate SP1	Pass
Uninstall LAN driver		Win7-64 Ultimate SP1	Pass
MAC Address		O.S. Environment	Status
Update MAC address by DOS tool		Win7-64 Ultimate SP1	Pass
Assign MAC address by Windows		Win7-64 Ultimate SP1	Pass
Check MAC address after changing HDD		Win7-64 Ultimate SP1	Pass
Protocol		O.S. Environment	Status
TCP/IP		Win7-64 Ultimate SP1	Pass
Speed		O.S. Environment	Status
10Mbps function test		Win7-64 Ultimate SP1	Pass
100Mbps function test		Win7-64 Ultimate SP1	Pass
1000Mbps function test		Win7-64 Ultimate SP1	Pass

On-board Intel I218V LAN

Follow the test procedure to test on-board LAN driver and make sure all the functions are normal.

LAN LED	O.S. Environment	Status
LAN Active LED Check	Win7-64 Ultimate SP1	Pass
LAN 10Mbps LED Check	Win7-64 Ultimate SP1	Pass
LAN 100Mbps LED Check	Win7-64 Ultimate SP1	Pass
LAN 1000Mbps LED Check	Win7-64 Ultimate SP1	Pass
ErP Ready	Win7-64 Ultimate SP1	Pass
Throughput Test	O.S. Environment	Status
PCIe GigaLAN Throughput	Win7-64 Ultimate SP1	Pass
Teaming Performance	O.S. Environment	Status
Teaming	Win7-64 Ultimate SP1	Pass
Collision LED	O.S. Environment	Status
Hub/Switch 10Mbps and Collision LED Check	Win7-64 Ultimate SP1	Pass
Hub/Switch 100Mbps and Collision LED Check	Win7-64 Ultimate SP1	Pass
Hub/Switch 1000Mbps and Collision LED Check	Win7-64 Ultimate SP1	Pass
LAN Boot ROM Test	O.S. Environment	Status
LAN Boot ROM Checks	Win7-64 Ultimate SP1	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM	Win7-64 Ultimate SP1	Pass
PXE Ghost to SB Serial ATA HDD through Boot ROM	Win7-64 Ultimate SP1	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV4)	Win7-64 Ultimate SP1	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV6)	Win7-64 Ultimate SP1	Pass
Package Name	O.S. Environment	Status
LAN application or diagnostic program	Win7-64 Ultimate SP1	Pass
LAN Cable	O.S. Environment	Status
120 meter cable connection	Win7-64 Ultimate SP1	Pass
DATA Transfer	O.S. Environment	Status
LAN Full Loading Files access	Win7-64 Ultimate SP1	Pass
VCD/DVD through LAN	Win7-64 Ultimate SP1	Pass
Dial-up over LAN	Win7-64 Ultimate SP1	Pass
LAN Device Type	O.S. Environment	Status
Switch	Win7-64 Ultimate SP1	Pass
Home Plug	Win7-64 Ultimate SP1	Pass
Router	Win7-64 Ultimate SP1	Pass
Ageing Test	O.S. Environment	Status
PassMark Sleep	Win7-64 Ultimate SP1	Pass
PassMark Rebooter	Win7-64 Ultimate SP1	Pass

On-board Intel I211V LAN

Follow the test procedure to test on-board LAN driver and make sure all the functions are normal.

Package Name	O.S. Environment	Status
LAN adapter driver	Win7-64 Ultimate SP1	Pass
Disable Function	Win7-64 Ultimate SP1	Pass
Works after resume from suspend S3	Win7-64 Ultimate SP1	Pass
Works after resume from suspend S4	Win7-64 Ultimate SP1	Pass
Uninstall LAN driver	Win7-64 Ultimate SP1	Pass
MAC Address	O.S. Environment	Status
Update MAC address by DOS tool	Win7-64 Ultimate SP1	Pass
Assign MAC address by Windows	Win7-64 Ultimate SP1	Pass
Check MAC address after changing HDD	Win7-64 Ultimate SP1	Pass
Protocol	O.S. Environment	Status
TCP/IP	Win7-64 Ultimate SP1	Pass
Speed	O.S. Environment	Status
10Mbps function test	Win7-64 Ultimate SP1	Pass
100Mbps function test	Win7-64 Ultimate SP1	Pass
1000Mbps function test	Win7-64 Ultimate SP1	Pass
LAN LED	O.S. Environment	Status
LAN Active LED Check	Win7-64 Ultimate SP1	Pass
LAN 10Mbps LED Check	Win7-64 Ultimate SP1	Pass
LAN 100Mbps LED Check	Win7-64 Ultimate SP1	Pass
LAN 1000Mbps LED Check	Win7-64 Ultimate SP1	Pass
ErP Ready	Win7-64 Ultimate SP1	Pass
Throughput Test	O.S. Environment	Status
PCIe GigaLAN Throughput	Win7-64 Ultimate SP1	Pass
Teaming Performance	O.S. Environment	Status
Teaming	Win7-64 Ultimate SP1	Pass
Collision LED	O.S. Environment	Status
Hub/Switch 10Mbps and Collision LED Check	Win7-64 Ultimate SP1	Pass
Hub/Switch 100Mbps and Collision LED Check	Win7-64 Ultimate SP1	Pass
Hub/Switch 1000Mbps and Collision LED Check	Win7-64 Ultimate SP1	Pass

On-board Intel I211V LAN

Follow the test procedure to test on-board LAN driver and make sure all the functions are normal.

LAN Boot ROM Test	O.S. Environment	Status
LAN Boot ROM Checks	Win7-64 Ultimate SP1	Pass
<i>Remote installation O.S to SB Serial ATA HDD through Boot ROM</i>	Win7-64 Ultimate SP1	Pass
<i>PXE Ghost to SB Serial ATA HDD through Boot ROM</i>	Win7-64 Ultimate SP1	Pass
<i>Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV4)</i>	Win7-64 Ultimate SP1	Pass
<i>Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV6)</i>	Win7-64 Ultimate SP1	Pass
Package Name	O.S. Environment	Status
LAN application or diagnostic program	Win7-64 Ultimate SP1	Pass
LAN Cable	O.S. Environment	Status
<i>120 meter cable connection</i>	Win7-64 Ultimate SP1	Pass
DATA Transfer	O.S. Environment	Status
<i>LAN Full Loading Files access</i>	Win7-64 Ultimate SP1	Pass
<i>VCD/DVD through LAN</i>	Win7-64 Ultimate SP1	Pass
<i>Dial-up over LAN</i>	Win7-64 Ultimate SP1	Pass
LAN Device Type	O.S. Environment	Status
<i>Switch</i>	Win7-64 Ultimate SP1	Pass
<i>Home Plug</i>	Win7-64 Ultimate SP1	Pass
<i>Router</i>	Win7-64 Ultimate SP1	Pass
Ageing Test	O.S. Environment	Status
<i>PassMark Sleep</i>	Win7-64 Ultimate SP1	Pass
<i>PassMark Rebooter</i>	Win7-64 Ultimate SP1	Pass

On-board USB 2.0 Controller

Follow the test procedure to test on-board USB and make sure all the functions are normal.

USB 2.0 Type	O.S. Environment	Status
<i>KBMS_USB_78</i>	Win7-64 Ultimate SP1	Pass
<i>USB1314</i>	Win7-64 Ultimate SP1	Pass
DATA Transfer	O.S. Environment	Status
<i>USB Flash</i>	Win7-64 Ultimate SP1	Pass
<i>USB Removable HDD without Power source</i>	Win7-64 Ultimate SP1	Pass
<i>USB Throughput Speed</i>	Win7-64 Ultimate SP1	Pass
Package Name	O.S. Environment	Status
<i>Install Windows with USB keyboard and mouse</i>	Win7-64 Ultimate SP1	Pass
<i>Install Windows with USB ODD</i>	Win7-64 Ultimate SP1	Pass
<i>Full loading USB</i>	Win7-64 Ultimate SP1	Pass
<i>Hot-plug</i>	Win7-64 Ultimate SP1	Pass
<i>File access via 5 meter cable</i>	Win7-64 Ultimate SP1	Pass

On-board USB 3.0 Controller

Follow the test procedure to test on-board USB and make sure all the functions are normal.

Package Name	O.S. Environment	Status
USB 3.0 driver	Win7-64 Ultimate SP1	Pass
<i>Firmware</i>	Win7-64 Ultimate SP1	Pass
<i>Factory test</i>	Win7-64 Ultimate SP1	Pass
<i>Cool boot</i>	Win7-64 Ultimate SP1	Pass
<i>Tray Icon</i>	Win7-64 Ultimate SP1	Pass
USB 2.0 Type	O.S. Environment	Status
<i>USB3_E1234</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_12</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_34</i>	Win7-64 Ultimate SP1	Pass
USB 3.0 Type	O.S. Environment	Status
<i>USB3_E1</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_E2</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_E3</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_E4</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_1</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_2</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_3</i>	Win7-64 Ultimate SP1	Pass
<i>USB3_4</i>	Win7-64 Ultimate SP1	Pass
DATA Transfer	O.S. Environment	Status
<i>USB Flash</i>	Win7-64 Ultimate SP1	Pass
<i>Power source</i>	Win7-64 Ultimate SP1	Pass

On-board USB 3.0 Controller

Follow the test procedure to test on-board USB and make sure all the functions are normal.

DATA Transfer	O.S. Environment	Status
<i>Data transfer between USB 3.0 Device</i>	Win7-64 Ultimate SP1	Pass
<i>USB Throughput Speed</i>	Win7-64 Ultimate SP1	Pass

<i>Install Windows via Intel USB 3.0 port</i>	Win7-64 Ultimate SP1	Pass
<i>System Install with USB flash</i>	Win7-64 Ultimate SP1	Pass
<i>Full loading USB</i>	Win7-64 Ultimate SP1	Pass
<i>Hot-plug</i>	Win7-64 Ultimate SP1	Pass
<i>File access via 3 meter cable</i>	Win7-64 Ultimate SP1	Pass
Aging	O.S. Environment	Status
<i>Data Transfer Test</i>	Win7-64 Ultimate SP1	Pass
<i>Suspend Test</i>	Win7-64 Ultimate SP1	Pass
On-board Intel USB 3.1 Controller		
Follow the test procedure to test on-board USB and make sure all the functions are normal.		
Package Name	O.S. Environment	Status
<i>Firmware</i>	Win7-64 Ultimate SP1	Pass
<i>USB 3.1 driver</i>	Win7-64 Ultimate SP1	Pass
<i>Factory test</i>	Win7-64 Ultimate SP1	Pass
<i>Cool boot</i>	Win7-64 Ultimate SP1	Pass
<i>Tray Icon</i>	Win7-64 Ultimate SP1	Pass
USB 2.0 Type	O.S. Environment	Status
<i>LAN_USB3.1_EC1_EA2</i>	Win7-64 Ultimate SP1	Pass
<i>LAN_USB3.1_EC3_EA4</i>	Win7-64 Ultimate SP1	Pass
USB 3.0 Type	O.S. Environment	Status
<i>LAN_USB3.1_EC1_EA2</i>	Win7-64 Ultimate SP1	Pass
<i>LAN_USB3.1_EC3_EA4</i>	Win7-64 Ultimate SP1	Pass
USB 3.1 Type	O.S. Environment	Status
<i>LAN_USB3.1_EC1_EA2</i>	Win7-64 Ultimate SP1	Pass
<i>LAN_USB3.1_EC3_EA4</i>	Win7-64 Ultimate SP1	Pass
DATA Transfer	O.S. Environment	Status
<i>USB Flash</i>	Win7-64 Ultimate SP1	Pass
<i>Power source</i>	Win7-64 Ultimate SP1	Pass
<i>Data transfer between USB 3.1 Device</i>	Win7-64 Ultimate SP1	Pass
<i>USB Throughput Speed</i>	Win7-64 Ultimate SP1	Pass
<i>USB 3.0 Over Current</i>	Win7-64 Ultimate SP1	Pass
<i>Install Windows via USB 3.1 port</i>	Win7-64 Ultimate SP1	Pass
<i>System Install with USB flash</i>	Win7-64 Ultimate SP1	Pass
<i>Full loading USB</i>	Win7-64 Ultimate SP1	Pass
<i>Hot-plug</i>	Win7-64 Ultimate SP1	Pass
Aging	O.S. Environment	Status
<i>Data Transfer Test</i>	Win7-64 Ultimate SP1	Pass
<i>Suspend Test</i>	Win7-64 Ultimate SP1	Pass

On-board South Bridge Serial ATA Controller

Follow the test procedure to test on-board South Bridge Serial ATA Controller driver and make sure all the functions are normal.

AHCI Mode Test 1		O.S. Environment	Status
System Install on SATA Port		Win7-64 Ultimate SP1	Pass
AHCI Driver		Win7-64 Ultimate SP1	Pass
Hybrid Sleeper test		Win7-64 Ultimate SP1	Pass
Hot-plug Disable Function		Win7-64 Ultimate SP1	Pass
SATA Hot-plug (Maximum Number of Drives with AHCI mode)		Win7-64 Ultimate SP1	Pass
Aging Test (All SATA)		Win7-64 Ultimate SP1	Pass
TRIM function check		Win7-64 Ultimate SP1	Pass
AHCI Performance test		Win7-64 Ultimate SP1	Pass
AHCI Mode Test 2		O.S. Environment	Status
System Install in SSD		Win7-64 Ultimate SP1	Pass
RAID 1 Test		O.S. Environment	Status
RAID Wizard		Win7-64 Ultimate SP1	Pass
System Install		Win7-64 Ultimate SP1	Pass
RAID Driver		Win7-64 Ultimate SP1	Pass
Check RAID 1 build Finished		Win7-64 Ultimate SP1	Pass
HDD Bootable Test		Win7-64 Ultimate SP1	Pass
Rebuild RAID 1 Test (By SoftRAID Utility)		Win7-64 Ultimate SP1	Pass
Mix Mode for Intel		Win7-64 Ultimate SP1	Pass
RAID Utility or Diagnostic Program		Win7-64 Ultimate SP1	Pass
Hybrid Sleeper test		Win7-64 Ultimate SP1	Pass
Aging Test		Win7-64 Ultimate SP1	Pass
RAID 0 Test		O.S. Environment	Status
RAID Wizard		Win7-64 Ultimate SP1	Pass
System Install		Win7-64 Ultimate SP1	Pass
RAID Driver		Win7-64 Ultimate SP1	Pass
Create DataRAID size over 2TB		Win7-64 Ultimate SP1	Pass
Hybrid Sleeper test		Win7-64 Ultimate SP1	Pass
Aging Test		Win7-64 Ultimate SP1	Pass
RAID Utility or Diagnostic Program		Win7-64 Ultimate SP1	Pass
Smart Response (ISRT) Install OS		Win7-64 Ultimate SP1	Pass
Smart Response (ISRT) Enhance Mode		Win7-64 Ultimate SP1	Pass
Smart Response (ISRT) Max Mode		Win7-64 Ultimate SP1	Pass
High performance		Win7-64 Ultimate SP1	Pass
SSHD Test		Win7-64 Ultimate SP1	Pass
Maximum Number of Drives with RAID mode		Win7-64 Ultimate SP1	Pass
RAID 5 Test		O.S. Environment	Status
RAID Wizard		Win7-64 Ultimate SP1	Pass
System Install		Win7-64 Ultimate SP1	Pass
RAID Driver		Win7-64 Ultimate SP1	Pass
Check RAID 5 build Finished		Win7-64 Ultimate SP1	Pass
HDD Bootable Test		Win7-64 Ultimate SP1	Pass
Rebuild RAID 5 Test		Win7-64 Ultimate SP1	Pass
RAID Utility or Diagnostic Program		Win7-64 Ultimate SP1	Pass
Hybrid Sleeper test		Win7-64 Ultimate SP1	Pass
Aging Test		Win7-64 Ultimate SP1	Pass
RAID 10 Test		O.S. Environment	Status
RAID Wizard		Win7-64 Ultimate SP1	Pass
System Install		Win7-64 Ultimate SP1	Pass
RAID Driver		Win7-64 Ultimate SP1	Pass
Check RAID 10 build Finished		Win7-64 Ultimate SP1	Pass
HDD Bootable Test		Win7-64 Ultimate SP1	Pass
Rebuild RAID 10 Test		Win7-64 Ultimate SP1	Pass
RAID Utility or Diagnostic Program		Win7-64 Ultimate SP1	Pass
Hybrid Sleeper test		Win7-64 Ultimate SP1	Pass
Aging Test		Win7-64 Ultimate SP1	Pass
Recovery Test		O.S. Environment	Status
RAID Wizard		Win7-64 Ultimate SP1	Pass
System Install		Win7-64 Ultimate SP1	Pass
RAID Driver		Win7-64 Ultimate SP1	Pass
Check RAID verify Finished		Win7-64 Ultimate SP1	Pass
HDD Bootable Test		Win7-64 Ultimate SP1	Pass
RAID Convert Function		Win7-64 Ultimate SP1	Pass
Hybrid Sleeper test		Win7-64 Ultimate SP1	Pass

On-board M.2 Controller

Follow the test procedure to test on-board M.2 Controller driver and make sure all the functions are normal.

M.2 NVMe mode	O.S. Environment	Status
Device information	Win7-64 Ultimate SP1	Pass
System installation at AHCI mode	Win7-64 Ultimate SP1	Pass
M.2 NVMe Performance	Win7-64 Ultimate SP1	Pass
M.2 NVMe device check GEN3 x4	Win7-64 Ultimate SP1	Pass
Stress Test	Win7-64 Ultimate SP1	Pass
Hyper Kit	Win7-64 Ultimate SP1	Pass
M.2 PCIe mode	O.S. Environment	Status
Device information	Win7-64 Ultimate SP1	Pass
System installation at AHCI mode	Win7-64 Ultimate SP1	Pass
M.2 PCIe Performance	Win7-64 Ultimate SP1	Pass
M.2 PCIe device check GEN2 x4	Win7-64 Ultimate SP1	Pass
M.2 PCIe device check GEN3 x4	Win7-64 Ultimate SP1	Pass
Stress Test	Win7-64 Ultimate SP1	Pass
Hyper Kit	Win7-64 Ultimate SP1	Pass

On-board U.2 Controller

Follow the test procedure to test on-board U.2 Controller driver and make sure all the functions are normal.

U.2 NVMe mode	O.S. Environment	Status
Device information	Win7-64 Ultimate SP1	Pass
System installation at AHCI mode	Win7-64 Ultimate SP1	Pass
U.2 NVMe Performance	Win7-64 Ultimate SP1	Pass
U.2 NVMe device check GEN3 x4	Win7-64 Ultimate SP1	Pass
Intel NVMe 750 SSD	Win7-64 Ultimate SP1	Pass
Stress Test	Win7-64 Ultimate SP1	Pass

On-board PCIEX1 Slot

Test the on-board PCIEX1 Slot to ensure the performance, functionalities and verify the driver support.

Package Name	O.S. Environment	Status
Works after resume from suspend S3	Win7-64 Ultimate SP1	Pass
Works after resume from suspend S4	Win7-64 Ultimate SP1	Pass
Full loading PCIEX1	Win7-64 Ultimate SP1	Pass
PCIEX1 Throughput Speed	Win7-64 Ultimate SP1	Pass
PCIEX1 Throughput Speed afeter resume from S3	Win7-64 Ultimate SP1	Pass
PCIEX1 Slot test	O.S. Environment	Status
PCIEX1_1 2.0 device test	Win7-64 Ultimate SP1	Pass
PCIEX1_2 2.0 device test	Win7-64 Ultimate SP1	Pass

On-board PCIEX4 Slot

Test the on-board PCIEX1 Slot to ensure the performance, functionalities and verify the driver support.

Package Name	O.S. Environment	Status
Works after resume from suspend S3	Win7-64 Ultimate SP1	Pass
Works after resume from suspend S4	Win7-64 Ultimate SP1	Pass
Full loading PCIEX4	Win7-64 Ultimate SP1	Pass
PCIEX4 Throughput Speed	Win7-64 Ultimate SP1	Pass
PCIEX4 Throughput Speed afeter resume from S3	Win7-64 Ultimate SP1	Pass
PCIEX1 Slot test	O.S. Environment	Status
PCIEX4_1 2.0 device test	Win7-64 Ultimate SP1	Pass
PCIEX4_1 3.0 device test	Win7-64 Ultimate SP1	Pass

On-board PCIEX16 Slot

Test the on-board PCIEX16 Slot to ensure the performance, functionalities and verify the driver support.

Package Name		O.S. Environment	Status
Full loading PCIEX16(nVIDIA Single GPU VGA)(BIOS Version:0214) (Driver Version: V364.51)		Win7-64 Ultimate SP1	Pass
Full loading PCIEX16(nVIDIA Duo GPU VGA)(BIOS Version: 0214) (Driver Version: V358.50)		Win7-64 Ultimate SP1	Pass
Full loading PCIEX16(ATI Single GPU VGA)(BIOS Version: 0211) (Driver Version:V 15.12)		Win7-64 Ultimate SP1	Pass
Full loading PCIEX16(ATI Duo GPU VGA)(BIOS Version: 0211) (Driver Version:V 15.12)		Win7-64 Ultimate SP1	Pass
SLI		O.S. Environment	Status
4 Slots (BIOS Version: 0214) (Driver Version:V364.51) Performance compare	SLI	Win7-64 Ultimate SP1	Pass
	Quad SLI	Win7-64 Ultimate SP1	Pass
	3 Way	Win7-64 Ultimate SP1	Pass
Performance compare		Win7-64 Ultimate SP1	Pass
CrossfireX		O.S. Environment	Status
4Slots (BIOS Version: 0211) (Driver Version:V15.12) Performance compare	2 GPU(2 cards)	Win7-64 Ultimate SP1	Pass
	3 GPU(3 cards)	Win7-64 Ultimate SP1	Pass
	4 GPU(2 cards)	Win7-64 Ultimate SP1	Pass
Performance compare		Win7-64 Ultimate SP1	Pass

The combination test for the No-VGA device on the PCIEX16 slots which share a Lane:

The first PCIEX16_1 , PCIEX16_4 Combination test			
PCIEX16_1 slot	PCIEX16_4 slot	O.S. Environment	Status
PCIEX8 device	PCIEX1 device	Win7-64 Ultimate SP1	Pass
	PCIEX4 device	Win7-64 Ultimate SP1	Pass
	PCIEX8 device	Win7-64 Ultimate SP1	Pass
PCIEX4 device	PCIEX1 device	Win7-64 Ultimate SP1	Pass
	PCIEX4 device	Win7-64 Ultimate SP1	Pass
	PCIEX8 device	Win7-64 Ultimate SP1	Pass
PCIEX1 device	PCIEX4 device	Win7-64 Ultimate SP1	Pass
	PCIEX8 device	Win7-64 Ultimate SP1	Pass
PCIEX16_1 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX4 device test		Win7-64 Ultimate SP1	Pass
PCIEX8 device test		Win7-64 Ultimate SP1	Pass
PCIEX8 3.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX16 2.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX16 3.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX16_2 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX4 device test		Win7-64 Ultimate SP1	Pass
PCIEX16_3 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX4 device test		Win7-64 Ultimate SP1	Pass
PCIEX8 device test		Win7-64 Ultimate SP1	Pass
PCIEX8 3.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX16 2.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX16 3.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX16_4 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win7-64 Ultimate SP1	Pass
PCIEX4 device test		Win7-64 Ultimate SP1	Pass
PCIEX8 device test		Win7-64 Ultimate SP1	Pass
PCIEX8 3.0 device test		Win7-64 Ultimate SP1	Pass

On-board TPM

Follow the test procedure to test on-board Infineon TPM and make sure all the functions are normal.

Package Name	O.S. Environment	Status
TPM Card State Check	Win7-64 Ultimate SP1	Pass
TPM Support	Win7-64 Ultimate SP1	Pass
Install O.S with TPM	Win7-64 Ultimate SP1	Pass
Disable Take Ownership	Win7-64 Ultimate SP1	Pass
Enable Take Ownership	Win7-64 Ultimate SP1	Pass
Enable BitLocker with TPM only	Win7-64 Ultimate SP1	Pass
Enable BitLocker with TPM + Pin	Win7-64 Ultimate SP1	Pass
Enable BitLocker with TPM + USB flash	Win7-64 Ultimate SP1	Pass
Works after resume from suspend S3	Win7-64 Ultimate SP1	Pass
Works after resume from suspend S4	Win7-64 Ultimate SP1	Pass
Initialization	Win7-64 Ultimate SP1	Pass
Configuration	Win7-64 Ultimate SP1	Pass
Windows System Rebooting	Win7-64 Ultimate SP1	Pass

On-board TPM

Follow the test procedure to test on-board Infineon TPM and make sure all the functions are normal.		
Package Name	O.S. Environment	Status
<i>TPM State</i>	Win7-64 Ultimate SP1	Pass
Password Management	O.S. Environment	Status
<i>Change Owner Password</i>	Win7-64 Ultimate SP1	Pass
<i>Change User Password</i>	Win7-64 Ultimate SP1	Pass

2.3 Stress Test

Stress Test		
Run the aging programs to test system stable-ability.		
Benchmark	O.S. Environment	Status
<i>3DMark</i>	Win7-64 Ultimate SP1	Pass
<i>OpenGL+ LAN</i>	Win7-64 Ultimate SP1	Pass
<i>Prime95</i>	Win7-64 Ultimate SP1	Pass
<i>Heaven Benchmark</i>	Win7-64 Ultimate SP1	Pass
Reboot test	O.S. Environment	Status
<i>Reboot test</i>	Win7-64 Ultimate SP1	Pass
Suspend test	O.S. Environment	Status
<i>Suspend test (S3+S4)</i>	Win7-64 Ultimate SP1	Pass
<i>Suspend test (S3+S4) nVIDIA VGA card</i>	Win7-64 Ultimate SP1	Pass
<i>Suspend test (S3+S4) ATi VGA card</i>	Win7-64 Ultimate SP1	Pass
<i>Suspend test (S3+S4)</i>	Win7-64 Ultimate SP1	Pass
<i>Suspend test (S3 only)</i>	Win7-64 Ultimate SP1	Pass
Data access test	O.S. Environment	Status
<i>Maximum Loading test</i>	Win7-64 Ultimate SP1	Pass

3. Microsoft Windows 8.1 Operating System Test

3.1 Software Compatibility Test

3.1.1 Operating System Compatibility

Operating System Test		
Install all versions of Windows 8.1 (Windows 8.1 Pro. and make sure all necessary drivers can be installed. Then we must check all available connectors, jumpers, sockets and slots. Make sure the compatibility and functions of these features match the specific requirement.		
Package Name	O.S. Environment	Status
Preparatory items	Win8.1 Pro.	Pass
OS Installation(Windows 8.1 Pro.)	Win8.1 Pro.	Pass
Multi-Language (ENG · CHT · CHS · JPN · DEU · ESN · FRA · RUS · KOR)	Win8.1 Pro.	Pass
Log in check	Win8.1 Pro.	Pass
Reboot test	Win8.1 Pro.	Pass
Shutdown test	Win8.1 Pro.	Pass
Maximum DIMM Install & test	Win8.1 Pro.	Pass

3.1.2 Supporting Software Compatibility

Support CD For Win8.1 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Check Sum	O.S. Environment	Status
MB PES Check	Win8.1 Pro.	Pass
Release CD or DVD checksum number : C315A854	Win8.1 Pro.	Pass
Release CD or DVD checksum MD5 number: 3924338472156db73af041b4c3de9209	Win8.1 Pro.	Pass
Drivers Menu	O.S. Environment	Status
Autorun test	Win8.1 Pro.	Pass
Label & Icon check	Win8.1 Pro.	Pass
Logo check	Win8.1 Pro.	Pass
Bupdater test and version check	Win8.1 Pro.	Pass
BIOS file check	Win8.1 Pro.	Pass
ASUS InstAll - Recommend	Win8.1 Pro.	Pass
Google Chrome Browser	Win8.1 Pro.	Pass
Google Toolbar	Win8.1 Pro.	Pass
Intel Chipset Driver	Win8.1 Pro.	Pass
Realtek Audio Driver and Application	Win8.1 Pro.	Pass
Intel(R) Gigabit Ethernet Driver and Utility	Win8.1 Pro.	Pass
Intel IRST Driver and Application	Win8.1 Pro.	Pass
ASMedia USB3.1/3.0 Driver	Win8.1 Pro.	Pass
Intel(R) Management Engine Interface	Win8.1 Pro.	Pass
Broadcom Wireless LAN adapter Driver and utility	Win8.1 Pro.	Pass
Bluetooth Driver	Win8.1 Pro.	Pass
Microsoft .NET Framework	Win8.1 Pro.	Pass
Utilities Menu	O.S. Environment	Status
Utilities Manual Icon	Win8.1 Pro.	Pass
ASUS AI Suite 3	Win8.1 Pro.	Pass
ASUS Ai Charger+	Win8.1 Pro.	Pass
ASUS Dual Intelligent Processors 5	Win8.1 Pro.	Pass
ASUS PC Cleanner	Win8.1 Pro.	Pass
ASUS EZ Update	Win8.1 Pro.	Pass
ROGGameFirst_IV	Win8.1 Pro.	Pass
ASUS MemTweakIt	Win8.1 Pro.	Pass

Support CD For Win8.1 (DVD or 1 PCS CD)

Install all drivers and utilities then check all available functions.

Utilities Menu	O.S. Environment	Status
<i>ASUS Mobo Connect</i>	Win8.1 Pro.	Pass
<i>ASUS Push Notice</i>	Win8.1 Pro.	Pass
<i>ASUS System Information</i>	Win8.1 Pro.	Pass
<i>ASUS USB 3.1 Boost</i>	Win8.1 Pro.	Pass
<i>ASUS USB BIOS Flashback</i>	Win8.1 Pro.	Pass
<i>ASUS WiFi Engine</i>	Win8.1 Pro.	Pass
<i>ASUS Media Streamer</i>	Win8.1 Pro.	Pass
<i>Adobe Reader XI</i>	Win8.1 Pro.	Pass
<i>AntiVirus(Kaspersky)</i>	Win8.1 Pro.	Pass
<i>DAEMON Tools</i>	Win8.1 Pro.	Pass
<i>ASUS Product Registration Program</i>	Win8.1 Pro.	Pass
<i>ASUS PC Diagnostic</i>	Win8.1 Pro.	Pass
<i>ASUS WebStorage</i>	Win8.1 Pro.	Pass
<i>WinZip</i>	Win8.1 Pro.	Pass
<i>HomeCloudLauncher</i>	Win8.1 Pro.	Pass
<i>ASUS KeyBotll</i>	Win8.1 Pro.	Pass
<i>ASUS ROG CPU-Z</i>	Win8.1 Pro.	Pass
<i>Wi-Fi GO</i>	Win8.1 Pro.	Pass
<i>ASUS Boot Setting</i>	Win8.1 Pro.	Pass
<i>ASUS AO Help</i>	Win8.1 Pro.	Pass
<i>AURA</i>	Win8.1 Pro.	Pass
<i>ASUS EZ Installer</i>	Win8.1 Pro.	Pass
<i>LOGO Folder</i>	Win8.1 Pro.	Pass
Manual Menu	O.S. Environment	Status
<i>Manual</i>	Win8.1 Pro.	Pass Refer to PART D
Other Information	O.S. Environment	Status
<i>Browser CD</i>	Win8.1 Pro.	Pass
<i>File list</i>	Win8.1 Pro.	Pass
CrashFree Function	O.S. Environment	Status
<i>Crash-Free Function Test</i>	Win8.1 Pro.	Pass
Multi-Language Support	O.S. Environment	Status
<i>English</i>	Win8.1 Pro.	Pass
<i>Chinese-Simplified</i>	Win8.1 Pro.	Pass
<i>Chinese-Traditional</i>	Win8.1 Pro.	Pass
<i>Japanese</i>	Win8.1 Pro.	Pass
<i>German</i>	Win8.1 Pro.	Pass
<i>Spanish</i>	Win8.1 Pro.	Pass
<i>Russia</i>	Win8.1 Pro.	Pass
<i>French</i>	Win8.1 Pro.	Pass
<i>Korean</i>	Win8.1 Pro.	Pass

4. Microsoft Windows 8.1 64-Bit Operating System Test

4.1 Software Compatibility Test

4.1.1 Operating System Compatibility

Operating System Test		
Install all versions of Windows 8.1-64 (Windows 8.1-64 Pro. and make sure all necessary drivers can be installed. Then we must check all available connectors, jumpers, sockets and slots. Make sure the compatibility and functions of these features match the specific requirement.		
Package Name	O.S. Environment	Status
Preparatory items	Win8.1-64 Pro.	Pass
UEFI OS Installation(Windows 8.1 Pro. X64)	Win8.1-64 Pro.	Pass
Multi-Language (ENG · CHT · CHS · JPN · DEU · ESN · FRA · RUS · KOR)	Win8.1-64 Pro.	Pass
Log in check	Win8.1-64 Pro.	Pass
Reboot test	Win8.1-64 Pro.	Pass
Shutdown test	Win8.1-64 Pro.	Pass

4.1.2 Supporting Software Compatibility

Support CD For Win8.1-64 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Check Sum	O.S. Environment	Status
MB PES Check	Win8.1-64 Pro	Pass
Release CD or DVD checksum number : C315A854	Win8.1-64 Pro	Pass
Release CD or DVD checksum MD5 number: 3924338472156db73af041b4c3de9209	Win8.1-64 Pro	Pass
Drivers Menu	O.S. Environment	Status
Autorun test	Win8.1-64 Pro	Pass
Label & Icon check	Win8.1-64 Pro	Pass
Logo check	Win8.1-64 Pro	Pass
Bupdater test and version check	Win8.1-64 Pro	Pass
BIOS file check	Win8.1-64 Pro	Pass
ASUS InstAll - Recommend	Win8.1-64 Pro	Pass
Google Chrome Browser	Win8.1-64 Pro	Pass
Google Toolbar	Win8.1-64 Pro	Pass
Intel Chipset Driver	Win8.1-64 Pro	Pass
Intel Turbo Boost Max Technology 3.0 Driver	Win8.1-64 Pro	Pass
Realtek Audio Driver and Application	Win8.1-64 Pro	Pass
Intel(R) Gigabit Ethernet Driver and Utility	Win8.1-64 Pro	Pass
Intel IRST Driver and Application	Win8.1-64 Pro	Pass
ASMedia USB3.1/3.0 Driver	Win8.1-64 Pro	Pass
Intel(R) Management Engine Interface	Win8.1-64 Pro	Pass
Broadcom Wireless LAN adapter Driver and utility	Win8.1-64 Pro	Pass
Bluetooth Driver	Win8.1-64 Pro	Pass
Microsoft .NET Framework	Win8.1-64 Pro	Pass
Utilities Menu	O.S. Environment	Status
Utilities Manual Icon	Win8.1-64 Pro	Pass
ASUS AI Suite 3	Win8.1-64 Pro	Pass
ASUS Ai Charger+	Win8.1-64 Pro	Pass
ASUS Dual Intelligent Processors 5	Win8.1-64 Pro	Pass
ASUS PC Cleaner	Win8.1-64 Pro	Pass
ASUS EZ Update	Win8.1-64 Pro	Pass
ASUS Mobo Connect	Win8.1-64 Pro	Pass
ASUS Push Notice	Win8.1-64 Pro	Pass
ASUS System Information	Win8.1-64 Pro	Pass
ASUS USB 3.1 Boost	Win8.1-64 Pro	Pass
ASUS USB BIOS Flashback	Win8.1-64 Pro	Pass
ASUS WiFi Engine	Win8.1-64 Pro	Pass
ASUS KeyBotl	Win8.1-64 Pro	Pass
Adobe Reader XI	Win8.1-64 Pro	Pass
Norton Security	Win8.1-64 Pro	Pass
DAEMON Tools	Win8.1-64 Pro	Pass
ROGGameFirst IV	Win8.1-64 Pro	Pass
ASUS RAMCACHE	Win8.1-64 Pro	Pass
ASUS RAMDisk	Win8.1-64 Pro	Pass
AntiVirus(Kaspersky)	Win8.1-64 Pro	Pass
ASUS MemTweakIt	Win8.1-64 Pro	Pass

Support CD For Win8.1-64 (DVD or 1 PCS CD)

Install all drivers and utilities then check all available functions.

Utilities Menu			O.S. Environment	Status
<i>ASUS Product Registration Program</i>			Win8.1-64 Pro	Pass
<i>ASUS PC Diagnostic</i>			Win8.1-64 Pro	Pass
<i>ASUS WebStorage</i>			Win8.1-64 Pro	Pass
<i>WinZip</i>			Win8.1-64 Pro	Pass
<i>ASUS ROG CPU-Z</i>			Win8.1-64 Pro	Pass
<i>ASUS HomeCloud Launcher</i>			Win8.1-64 Pro	Pass
<i>ASUS Media Streamer</i>			Win8.1-64 Pro	Pass
<i>ASUS Wi-Fi GO!</i>			Win8.1-64 Pro	Pass
<i>ASUS Boot Setting</i>			Win8.1-64 Pro	Pass
<i>ASUS AO Help</i>			Win8.1-64 Pro	Pass
<i>HyStream</i>			Win8.1-64 Pro	Pass
<i>ASUS AURA</i>			Win8.1-64 Pro	Pass
<i>ASUS EZ Installer</i>			Win8.1-64 Pro	Pass
<i>LOGO Folder</i>			Win8.1-64 Pro	Pass
Manual Menu			O.S. Environment	Status
<i>Manual</i>			Win8.1-64 Pro	Pass Refer to PART D
Other Information			O.S. Environment	Status
<i>Browser CD</i>			Win8.1-64 Pro	Pass
<i>File list</i>			Win8.1-64 Pro	Pass
CrashFree Function			O.S. Environment	Status
<i>Crash-Free Function Test</i>			Win8.1-64 Pro	Pass
Multi-Language Support			O.S. Environment	Status
<i>English</i>			Win8.1-64 Pro	Pass
<i>Chinese-Simplified</i>			Win8.1-64 Pro	Pass
<i>Chinese-Traditional</i>			Win8.1-64 Pro	Pass
<i>Japanese</i>			Win8.1-64 Pro	Pass
<i>German</i>			Win8.1-64 Pro	Pass
<i>Spanish</i>			Win8.1-64 Pro	Pass
<i>Russia</i>			Win8.1-64 Pro	Pass
<i>French</i>			Win8.1-64 Pro	Pass
<i>Korean</i>			Win8.1-64 Pro	Pass

5. Microsoft Windows 10 64-Bit Operating System Test

5.1 Software Compatibility Test

5.1.1 Operating System Compatibility

Operating System Test		
Install all versions of Windows 10-64 (Windows 10-64 Pro. and make sure all necessary drivers can be installed. Then we must check all available connectors, jumpers, sockets and slots. Make sure the compatibility and functions of these features match the specific requirement.		
Package Name	O.S. Environment	Status
Preparatory items	Win10-64 Pro. TH2	Pass
UEFI OS Installation (Windows 10 Pro. X64)	Win10-64 Pro. TH2	Pass
Multi-Language (ENG · CHT · CHS · JPN · DEU · ESN · FRA · RUS · KOR)	Win10-64 Pro. TH2	Pass
Log in check	Win10-64 Pro. TH2	Pass
Reboot test	Win10-64 Pro. TH2	Pass
Shutdown test	Win10-64 Pro. TH2	Pass
Maximum DIMM Install & test	Win10-64 Pro. TH2	Pass

5.1.2 Application Software Compatibility

Graphics / Image Processing / Multimedia Applications		
Install application then execute basic functions and uninstall it. And it must include resize function.		
Package Name	O.S. Environment	Status
CorelDRAW Graphics Suite X8	Win10-64 Pro. TH2	Pass
Ulead PhotoImpact X3 (Chinese-Traditional)	Win10-64 Pro. TH2	Pass
Photoshop CC	Win10-64 Pro. TH2	Pass
Corel VideoStudio X9	Win10-64 Pro. TH2	Pass
Utilities & Tools		
Install application then execute programs and uninstall it.		
Package Name	O.S. Environment	Status
Flashget V3.7	Win10-64 Pro. TH2	Pass
Thunder 7	Win10-64 Pro. TH2	Pass
Alcohol 120% V2.0	Win10-64 Pro. TH2	Pass
Nero 2016	Win10-64 Pro. TH2	Pass
Dr.eye X	Win10-64 Pro. TH2	Pass
Kaspersky Internet Security 2016	Win10-64 Pro. TH2	Pass
PC-cillin Internet Security Pro 2016	Win10-64 Pro. TH2	Pass
Norton 360	Win10-64 Pro. TH2	Pass
Norton Ghost V14.0	Win10-64 Pro. TH2	Pass
Integrate Applications / Project Management		
Install application then execute programs and uninstall it.		
Package Name	O.S. Environment	Status
Acrobat Standard DC	Win10-64 Pro. TH2	Pass
Office 365	Win10-64 Pro. TH2	Pass
Open Office.org 4.1.2	Win10-64 Pro. TH2	Pass
AIDA64 V5.70.3800	Win10-64 Pro. TH2	Pass
Ludashi V5.15.16.1025	Win10-64 Pro. TH2	Pass
Communication / Remote Control / E-Mail		
Install application then execute programs and uninstall it.		
Package Name	O.S. Environment	Status
Microsoft Edge	Win10-64 Pro. TH2	Pass
Media Players		
Install application then execute programs and uninstall it.		
Package Name	O.S. Environment	Status
Microsoft Media Player 12	Win10-64 Pro. TH2	Pass
PowerDVD 15	Win10-64 Pro. TH2	Pass
WinDVD Pro 11	Win10-64 Pro. TH2	Pass
StormCodec 7	Win10-64 Pro. TH2	Pass
KMPlayer V4.0.7.1	Win10-64 Pro. TH2	Pass
TotalMedia Theatre 5	Win10-64 Pro. TH2	Pass

Games		
Install application then play these games over 10 minutes.		
Package Name	O.S. Environment	Status
<i>DIRT3</i>	Win10-64 Pro. TH2	Pass
<i>Battlefield 4</i>	Win10-64 Pro. TH2	Pass
<i>Need For Speed-Rivals</i>	Win10-64 Pro. TH2	Pass
<i>FIFA14</i>	Win10-64 Pro. TH2	Pass
<i>NBA 2K16</i>	Win10-64 Pro. TH2	Pass
<i>Star Craft II</i>	Win10-64 Pro. TH2	Pass
<i>Warcraft III</i>	Win10-64 Pro. TH2	Pass
<i>Diablo 3</i>	Win10-64 Pro. TH2	Pass
<i>Assassin's Creed IV: Black Flag</i>	Win10-64 Pro. TH2	Pass
<i>The SIMS 4LIMITED EDITION</i>	Win10-64 Pro. TH2	Pass
<i>WATCH DOGS</i>	Win10-64 Pro. TH2	Pass
<i>SHADOW OF MORDOR</i>	Win10-64 Pro. TH2	Pass
<i>THE EVIL WITHIN</i>	Win10-64 Pro. TH2	Pass
On-Line Games		
Install application then play these games over 30 minutes.		
Package Name	O.S. Environment	Status
<i>QQ Game</i>	Win10-64 Pro. TH2	Pass
<i>Star Craft II</i>	Win10-64 Pro. TH2	Pass
<i>World of Warcraft</i>	Win10-64 Pro. TH2	Pass
<i>LOL</i>	Win10-64 Pro. TH2	Pass

5.1.3 Supporting Software Compatibility

Support CD For Win10-64 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Check Sum	O.S. Environment	Status
<i>MB PES Check</i>		
<i>Release CD or DVD checksum number : C315A854</i>		Pass
<i>Release CD or DVD checksum MD5 number: 3924338472156db73af041b4c3de9209</i>		Pass
Drivers Menu	O.S. Environment	Status
<i>Autorun test</i>	Win10-64 Pro. TH2	Pass
<i>Label & Icon check</i>	Win10-64 Pro. TH2	Pass
<i>Logo check</i>	Win10-64 Pro. TH2	Pass
<i>Bupdater test and version check</i>	Win10-64 Pro. TH2	Pass
<i>BIOS file check</i>	Win10-64 Pro. TH2	Pass
<i>ASUS InstAll - Recommend</i>	Win10-64 Pro. TH2	Pass
<i>Google Chrome Browser</i>	Win10-64 Pro. TH2	Pass
<i>Intel Chipset Driver</i>	Win10-64 Pro. TH2	Pass
<i>Intel Turbo Boost Max Technology 3.0 Driver</i>	Win10-64 Pro. TH2	Pass
<i>Realtek Audio Driver and Application</i>	Win10-64 Pro. TH2	Pass
<i>Intel LAN Driver and Utility</i>	Win10-64 Pro. TH2	Pass
<i>Intel IRST Driver and Application</i>	Win10-64 Pro. TH2	Pass
<i>ASMedia USB3.1/3.0 Driver</i>	Win10-64 Pro. TH2	Pass
<i>Intel(R) Management Engine Interface</i>	Win10-64 Pro. TH2	Pass
<i>Broadcom Wireless LAN adapter Driver and utility</i>	Win10-64 Pro. TH2	Pass
<i>Bluetooth Driver</i>	Win10-64 Pro. TH2	Pass
Utilities Menu	O.S. Environment	Status
<i>Utilities Manual Icon</i>	Win10-64 Pro. TH2	Pass
<i>ASUS AI Suite 3</i>	Win10-64 Pro. TH2	Pass
<i>ASUS Ai Charger+</i>	Win10-64 Pro. TH2	Pass
<i>ASUS Dual Intelligent Processors 5</i>	Win10-64 Pro. TH2	Pass Refer to PART D
<i>ASUS PC Cleaner</i>	Win10-64 Pro. TH2	Pass
<i>ASUS EZ Update</i>	Win10-64 Pro. TH2	Pass
<i>ASUS Mobo Connect</i>	Win10-64 Pro. TH2	Pass
<i>ASUS Push Notice</i>	Win10-64 Pro. TH2	Pass
<i>ASUS System Information</i>	Win10-64 Pro. TH2	Pass
<i>ASUS USB 3.1 Boost</i>	Win10-64 Pro. TH2	Pass
<i>ASUS USB BIOS Flashback</i>	Win10-64 Pro. TH2	Pass
<i>Adobe Reader XI</i>	Win10-64 Pro. TH2	Pass
<i>ASUS KeyBotII</i>	Win10-64 Pro. TH2	Pass
<i>AntiVirus(Kaspersky)</i>	Win10-64 Pro. TH2	Pass
<i>DAEMON Tools</i>	Win10-64 Pro. TH2	Pass
<i>ROGGameFirst_IV</i>	Win10-64 Pro. TH2	Pass
<i>ASUS RAMCACHE</i>	Win10-64 Pro. TH2	Pass
<i>ASUS RAMDisk</i>	Win10-64 Pro. TH2	Pass

Support CD For Win10-64 (DVD or 1 PCS CD)		
Install all drivers and utilities then check all available functions.		
Utilities Menu	O.S. Environment	Status
ASUS Product Registration Program	Win10-64 Pro. TH2	Pass
ASUS PC Diagnostic	Win10-64 Pro. TH2	Pass
ASUS WebStorage	Win10-64 Pro. TH2	Pass
WinZip	Win10-64 Pro. TH2	Pass
ASUS HomeCloudLauncher	Win10-64 Pro. TH2	Pass
ASUS Media Streamer	Win10-64 Pro. TH2	Pass
ASUS Wi-Fi GO!	Win10-64 Pro. TH2	Pass
ASUS ROG CPU-Z	Win10-64 Pro. TH2	Pass
ASUS Boot Setting	Win10-64 Pro. TH2	Pass
ASUS AO Help	Win10-64 Pro. TH2	Pass Refer to PART D
HyStream	Win10-64 Pro. TH2	Pass
ASUS AURA	Win10-64 Pro. TH2	Pass Refer to PART D
ASUS EZ Installer	Win10-64 Pro. TH2	Pass
LOGO Folder	Win10-64 Pro. TH2	Pass
Manual Menu	O.S. Environment	Status
Manual	Win10-64 Pro.	
Other Information	O.S. Environment	Status
Browser CD	Win10-64 Pro. TH2	Pass
File list	Win10-64 Pro. TH2	Pass
CrashFree Function	O.S. Environment	Status
Crash-Free Function Test	Win10-64 Pro. TH2	Pass
Multi-Language Support	O.S. Environment	Status
English	Win10-64 Pro. TH2	Pass
Chinese-Simplified	Win10-64 Pro. TH2	Pass
Chinese-Traditional	Win10-64 Pro. TH2	Pass
Japanese	Win10-64 Pro. TH2	Pass
German	Win10-64 Pro. TH2	Pass
Spanish	Win10-64 Pro. TH2	Pass
Russia	Win10-64 Pro. TH2	Pass
French	Win10-64 Pro. TH2	Pass
Korean	Win10-64 Pro. TH2	Pass

5.1.4 ASUS Utilities Functional Compatibility

ASUS AI Suite 3		
Follow the test procedure to test AI Suite 3 and make sure all the functions are normal.		
Package Name	O.S. Environment	Status
Driver	Win10-64 Pro. TH2	Pass
Multi-Language	Win10-64 Pro. TH2	Pass
Function test	Win10-64 Pro. TH2	Pass
Function button test	Win10-64 Pro. TH2	Pass
Uninstall	Win10-64 Pro. TH2	Pass
Utility Function	O.S. Environment	Status
Tool	Ai Charger+	Win10-64 Pro. TH2 Pass
	Dual Intelligent Processors 5	Win10-64 Pro. TH2 Pass Refer to PART D
	Key Express	Win10-64 Pro. TH2 Status
	Mobo Connect	Win10-64 Pro. TH2 Pass
	Push Notice	Win10-64 Pro. TH2 Pass
	USB 3.1 Boost	Win10-64 Pro. TH2 Pass Refer to PART D
ASUS AI Suite 3		
Follow the test procedure to test AI Suite 3 and make sure all the functions are normal.		
Utility Function	O.S. Environment	Status
Monitor	Sensor	Win10-64 Pro. TH2 Pass
	CPU Frequency	Win10-64 Pro. TH2 Pass
Update	EZ Update	Win10-64 Pro. TH2 Pass
	Mylogo	Win10-64 Pro. TH2 Pass
	USB BIOS Flashback	Win10-64 Pro. TH2 Pass
System Information		O.S. Environment
		Status

MB	Win10-64 Pro. TH2	Pass
CPU	Win10-64 Pro. TH2	Pass
SPD	Win10-64 Pro. TH2	Pass
Setting	O.S. Environment	Status
Application Status	Win10-64 Pro. TH2	Pass
Bar	Win10-64 Pro. TH2	Pass
Skin	Win10-64 Pro. TH2	Pass

5.1.5 System Special Functional Compatibility

ACPI BIOS Test

Follow the test procedure to test to ACPI and make sure all the functions are normal.

Package Name	O.S. Environment	Status
<i>FAN work</i>	Win10-64 Pro. TH2	Pass
<i>Power Button</i>	Win10-64 Pro. TH2	Pass
<i>Hybrid sleepTest</i>	Win10-64 Pro. TH2	Pass
<i>Power supply fanwork</i>	Win10-64 Pro. TH2	Pass
<i>Timer Power Saving</i>	Win10-64 Pro. TH2	Pass
<i>Suspend Simulation</i>	Win10-64 Pro. TH2	Pass
<i>External Signal to Wake up (S3)</i>	Win10-64 Pro. TH2	Pass
<i>External Signal to Wake up (S4)</i>	Win10-64 Pro. TH2	Pass
<i>External Signal to Wake up (S5)</i>	Win10-64 Pro. TH2	Pass
<i>External Signal to Wake up (S5)(Enable ErP funtion)</i>	Win10-64 Pro. TH2	Pass

5.2 Hardware Compatibility Test

5.2.1 System device functionality and Capability

On-board Audio

Follow the test procedure to test on-board Audio driver and make sure all the functions are normal.

Package Name	O.S. Environment	Status
<i>Install new driver & Check WHQL</i>	Win10-64 Pro. TH2	Pass
<i>Disable audio under BIOS</i>	Win10-64 Pro. TH2	Pass
<i>Check Driver SSID & PCI SSID</i>	Win10-64 Pro. TH2	Pass
<i>Uninstall driver</i>	Win10-64 Pro. TH2	Pass
Noise check	O.S. Environment	Status
<i>Pop sound check</i>	Win10-64 Pro. TH2	Pass Refer to PART D
Back Output-playing	O.S. Environment	Status
<i>Play MP3 with Media player</i>	Win10-64 Pro. TH2	Pass
<i>Play Dolby Digital 5.1</i>	Win10-64 Pro. TH2	Pass
<i>Play LPCM 7.1</i>	Win10-64 Pro. TH2	Pass
<i>Content protection</i>	Win10-64 Pro. TH2	Pass
<i>Check Balance Controller function</i>	Win10-64 Pro. TH2	Pass
<i>Work after resume from S3</i>	Win10-64 Pro. TH2	Pass
<i>Work after resume from S4</i>	Win10-64 Pro. TH2	Pass
<i>Communications Function</i>	Win10-64 Pro. TH2	Pass
<i>DTS function</i>	Win10-64 Pro. TH2	Pass Refer to PART D
<i>RMAA Tool</i>	Win10-64 Pro. TH2	Pass
<i>AMP function</i>	Win10-64 Pro. TH2	Pass
<i>UI new function for Headphone&Speaker</i>	Win10-64 Pro. TH2	Pass
Back Input-recording	O.S. Environment	Status
<i>Playback volume control</i>	Win10-64 Pro. TH2	Pass
<i>Recording function</i>	Win10-64 Pro. TH2	Pass
<i>Check Balance Controller function</i>	Win10-64 Pro. TH2	Pass
<i>Work after resume from S3</i>	Win10-64 Pro. TH2	Pass
<i>Work after resume from S4</i>	Win10-64 Pro. TH2	Pass
<i>Boost function</i>	Win10-64 Pro. TH2	Pass

On-board Audio

Follow the test procedure to test on-board Audio driver and make sure all the functions are normal.

Output-SPDIF		O.S. Environment	Status
Play MP3 with Media Play		Win10-64 Pro. TH2	Pass
DTS function		Win10-64 Pro. TH2	Pass
Play Dolby Digital 5.1		Win10-64 Pro. TH2	Pass
Set Sample rate as 192KHz / Bit Depth as 16/24		Win10-64 Pro. TH2	Pass
Power on/off system 3 times		Win10-64 Pro. TH2	Pass
Work after resume from S3		Win10-64 Pro. TH2	Pass
Set Spdif out Type HDMI and play MP3		Win10-64 Pro. TH2	Pass
Communication software		O.S. Environment	Status
Skype		Win10-64 Pro. TH2	Pass
Front Output-playing		O.S. Environment	Status
Check Balance Controller function		Win10-64 Pro. TH2	Pass
Work after resume from S3		Win10-64 Pro. TH2	Pass
Jack-retasking		Win10-64 Pro. TH2	Pass
Jack-detection		Win10-64 Pro. TH2	Pass
Multi-streaming		Win10-64 Pro. TH2	Pass
DTS function		Win10-64 Pro. TH2	Pass
AMP function		Win10-64 Pro. TH2	Pass
UI new function for Headphone&Speaker		Win10-64 Pro. TH2	Pass
Front Panel Type		O.S. Environment	Status
BIOS AC97	AC97 Panel	Win10-64 Pro. TH2	Pass
BIOS HD	HD Panel	Win10-64 Pro. TH2	Pass
DTS Studio Sound 2		O.S. Environment	Status
On/Off		Win10-64 Pro. TH2	Pass
DTS Connect		O.S. Environment	Status
On/Off		Win10-64 Pro. TH2	Pass
AMP UI New function		O.S. Environment	Status
On/Off		Win10-64 Pro. TH2	Pass
AMP function		O.S. Environment	Status
On/Off		Win10-64 Pro. TH2	Pass

On-board Bluetooth

Test the on-board Bluetooth and verify the driver support and functionalities.

Package Name		O.S. Environment	Status
Bluetooth driver		Win10-64 Pro. TH2	Pass
MAC address		Win10-64 Pro. TH2	Pass
Works after resume from S3		Win10-64 Pro. TH2	Pass
Works after resume from S4		Win10-64 Pro. TH2	Pass
Searching Bluetooth Device		Win10-64 Pro. TH2	Pass
Huge Files transfer		Win10-64 Pro. TH2	Pass
Transit distance		Win10-64 Pro. TH2	Pass
Uninstall driver		Win10-64 Pro. TH2	Pass
Other Common Bluetooth Profile Test		O.S. Environment	Status
A2DP		Win10-64 Pro. TH2	Pass
AVRCP		Win10-64 Pro. TH2	Pass
HID		Win10-64 Pro. TH2	Pass
Bluetooth Device Compatibility Test		O.S. Environment	Status
Ear Phone		Win10-64 Pro. TH2	Pass
Keyboard		Win10-64 Pro. TH2	Pass
Mobile Phone		Win10-64 Pro. TH2	Pass
Mouse		Win10-64 Pro. TH2	Pass

On-board Wireless LAN

Test the on-board Wireless LAN and verify the driver support and functionalities.

Package Name		O.S. Environment	Status
Wireless driver		Win10-64 Pro. TH2	Pass
Works after resume from suspend S3		Win10-64 Pro. TH2	Pass
Works after resume from suspend S4		Win10-64 Pro. TH2	Pass
LAN application or diagnostic program		Win10-64 Pro. TH2	Pass
Disable Function		Win10-64 Pro. TH2	Pass
System performance impact		Win10-64 Pro. TH2	Pass
Uninstall driver		Win10-64 Pro. TH2	Pass
802.11n		Win10-64 Pro. TH2	Pass
802.11ac		Win10-64 Pro. TH2	Pass
DATA Transfer		Win10-64 Pro. TH2	Pass
Miracast		Win10-64 Pro. TH2	Pass
LAN Stress test		Win10-64 Pro. TH2	Pass

On-board Intel I218V LAN

Follow the test procedure to test on-board LAN driver and make sure all the functions are normal.

Package Name	O.S. Environment	Status
LAN adapter driver	Win10-64 Pro. TH2	Pass
Disable Function	Win10-64 Pro. TH2	Pass
Works after resume from suspend S3	Win10-64 Pro. TH2	Pass
Works after resume from suspend S4	Win10-64 Pro. TH2	Pass
Uninstall LAN driver	Win10-64 Pro. TH2	Pass
MAC Address	O.S. Environment	Status
Update MAC address by DOS tool	Win10-64 Pro. TH2	Pass
Assign MAC address by Windows	Win10-64 Pro. TH2	Pass
Check MAC address after changing HDD	Win10-64 Pro. TH2	Pass
Protocol	O.S. Environment	Status
TCP/IP	Win10-64 Pro. TH2	Pass
Speed	O.S. Environment	Status
10Mbps function test	Win10-64 Pro. TH2	Pass
100Mbps function test	Win10-64 Pro. TH2	Pass
1000Mbps function test	Win10-64 Pro. TH2	Pass
LAN LED	O.S. Environment	Status
LAN Active LED Check	Win10-64 Pro. TH2	Pass
LAN 10Mbps LED Check	Win10-64 Pro. TH2	Pass
LAN 100Mbps LED Check	Win10-64 Pro. TH2	Pass
LAN 1000Mbps LED Check	Win10-64 Pro. TH2	Pass
ErP Ready	Win10-64 Pro. TH2	Pass
Throughput Test	O.S. Environment	Status
PCIe GigaLAN Throughput	Win10-64 Pro. TH2	Pass
Teaming Performance	O.S. Environment	Status
Teaming	Win10-64 Pro. TH2	Pass
Collision LED	O.S. Environment	Status
Hub/Switch 10Mbps and Collision LED Check	Win10-64 Pro. TH2	Pass
Hub/Switch 100Mbps and Collision LED Check	Win10-64 Pro. TH2	Pass
Hub/Switch 1000Mbps and Collision LED Check	Win10-64 Pro. TH2	Pass
LAN Boot ROM Test	O.S. Environment	Status
LAN Boot ROM Checks	Win10-64 Pro. TH2	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM	Win10-64 Pro. TH2	Pass
PXE Ghost to SB Serial ATA HDD through Boot ROM	Win10-64 Pro. TH2	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV4)	Win10-64 Pro. TH2	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV6)	Win10-64 Pro. TH2	Pass
Package Name	O.S. Environment	Status
LAN application or diagnostic program	Win10-64 Pro. TH2	Pass
LAN Cable	O.S. Environment	Status
120 meter cable connection	Win10-64 Pro. TH2	Pass
DATA Transfer	O.S. Environment	Status
LAN Full Loading Files access	Win10-64 Pro. TH2	Pass
VCD/DVD through LAN	Win10-64 Pro. TH2	Pass
Dial-up over LAN	Win10-64 Pro. TH2	Pass
LAN Device Type	O.S. Environment	Status
Switch	Win10-64 Pro. TH2	Pass
Home Plug	Win10-64 Pro. TH2	Pass
Router	Win10-64 Pro. TH2	Pass
Aging Test	O.S. Environment	Status
PassMark Sleep	Win10-64 Pro. TH2	Pass
PassMark Rebooter	Win10-64 Pro. TH2	Pass

On-board Intel I211V LAN

Follow the test procedure to test on-board LAN driver and make sure all the functions are normal.

Package Name	O.S. Environment	Status
LAN adapter driver	Win10-64 Pro. TH2	Pass
Disable Function	Win10-64 Pro. TH2	Pass
Works after resume from suspend S3	Win10-64 Pro. TH2	Pass
Works after resume from suspend S4	Win10-64 Pro. TH2	Pass
Uninstall LAN driver	Win10-64 Pro. TH2	Pass
MAC Address	O.S. Environment	Status
Update MAC address by DOS tool	Win10-64 Pro. TH2	Pass
Assign MAC address by Windows	Win10-64 Pro. TH2	Pass
Check MAC address after changing HDD	Win10-64 Pro. TH2	Pass
Protocol	O.S. Environment	Status
TCP/IP	Win10-64 Pro. TH2	Pass

On-board Intel I211V LAN

Follow the test procedure to test on-board LAN driver and make sure all the functions are normal.

Speed	O.S. Environment	Status
10Mbps function test	Win10-64 Pro. TH2	Pass
100Mbps function test	Win10-64 Pro. TH2	Pass
1000Mbps function test	Win10-64 Pro. TH2	Pass
LAN LED	O.S. Environment	Status
LAN Active LED Check	Win10-64 Pro. TH2	Pass
LAN 10Mbps LED Check	Win10-64 Pro. TH2	Pass
LAN 100Mbps LED Check	Win10-64 Pro. TH2	Pass
LAN 1000Mbps LED Check	Win10-64 Pro. TH2	Pass
ErP Ready	Win10-64 Pro. TH2	Pass
Throughput Test	O.S. Environment	Status
PCIe GigaLAN Throughput	Win10-64 Pro. TH2	Pass
Teaming Performance	O.S. Environment	Status
Teaming	Win10-64 Pro. TH2	Pass
Collision LED	O.S. Environment	Status
Hub/Switch 10Mbps and Collision LED Check	Win10-64 Pro. TH2	Pass
Hub/Switch 100Mbps and Collision LED Check	Win10-64 Pro. TH2	Pass
Hub/Switch 1000Mbps and Collision LED Check	Win10-64 Pro. TH2	Pass
LAN Boot ROM Test	O.S. Environment	Status
LAN Boot ROM Checks	Win10-64 Pro. TH2	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM	Win10-64 Pro. TH2	Pass
PXE Ghost to SB Serial ATA HDD through Boot ROM	Win10-64 Pro. TH2	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV4)	Win10-64 Pro. TH2	Pass
Remote installation O.S to SB Serial ATA HDD through Boot ROM (UEFI Network Card IPV6)	Win10-64 Pro. TH2	Pass
Package Name	O.S. Environment	Status
LAN application or diagnostic program	Win10-64 Pro. TH2	Pass
LAN Cable	O.S. Environment	Status
120 meter cable connection	Win10-64 Pro. TH2	Pass
DATA Transfer	O.S. Environment	Status
LAN Full Loading Files access	Win10-64 Pro. TH2	Pass
VCD/DVD through LAN	Win10-64 Pro. TH2	Pass
Dial-up over LAN	Win10-64 Pro. TH2	Pass
LAN Device Type	O.S. Environment	Status
Switch	Win10-64 Pro. TH2	Pass
Home Plug	Win10-64 Pro. TH2	Pass
Router	Win10-64 Pro. TH2	Pass
Aging Test	O.S. Environment	Status
PassMark Sleep	Win10-64 Pro. TH2	Pass
PassMark Rebooter	Win10-64 Pro. TH2	Pass

On-board USB 2.0 Controller

Follow the test procedure to test on-board USB and make sure all the functions are normal.

USB 2.0 Type	O.S. Environment	Status
USB1112	Win10-64 Pro. TH2	Pass
USB7~10	Win10-64 Pro. TH2	Pass
DATA Transfer	O.S. Environment	Status
USB Flash	Win10-64 Pro. TH2	Pass
USB Removable HDD without Power source	Win10-64 Pro. TH2	Pass
USB Throughput Speed	Win10-64 Pro. TH2	Pass
Package Name	O.S. Environment	Status
Install Windows with USB keyboard and mouse	Win10-64 Pro. TH2	Pass
Install Windows with USB ODD	Win10-64 Pro. TH2	Pass
Full loading USB	Win10-64 Pro. TH2	Pass
Hot-plug	Win10-64 Pro. TH2	Pass
File access via 5 meter cable	Win10-64 Pro. TH2	Pass

On-board USB 3.0 Controller

Follow the test procedure to test on-board USB and make sure all the functions are normal.

Package Name	O.S. Environment	Status
USB 3.0 driver	Win10-64 Pro. TH2	Pass
Firmware	Win10-64 Pro. TH2	Pass
Factory test	Win10-64 Pro. TH2	Pass
Cool boot	Win10-64 Pro. TH2	Pass
Tray Icon	Win10-64 Pro. TH2	Pass

On-board USB 3.0 Controller

Follow the test procedure to test on-board USB and make sure all the functions are normal.

USB 2.0 Type		O.S. Environment	Status
USB3_E12		Win10-64 Pro. TH2	Pass
USB3_E34		Win10-64 Pro. TH2	Pass
USB3_12		Win10-64 Pro. TH2	Pass
USB3_34		Win10-64 Pro. TH2	Pass
USB 3.0 Type		O.S. Environment	Status
USB3_E1		Win10-64 Pro. TH2	Pass
USB3_E2		Win10-64 Pro. TH2	Pass
USB3_E3		Win10-64 Pro. TH2	Pass
USB3_E4		Win10-64 Pro. TH2	Pass
USB3_1		Win10-64 Pro. TH2	Pass
USB3_2		Win10-64 Pro. TH2	Pass
USB3_3		Win10-64 Pro. TH2	Pass
USB3_4		Win10-64 Pro. TH2	Pass
DATA Transfer		O.S Environment	Status
USB Flash		Win10-64 Pro. TH2	Pass
Power source		Win10-64 Pro. TH2	Pass
Data transfer between USB 3.0 Device		Win10-64 Pro. TH2	Pass
USB Throughput Speed		Win10-64 Pro. TH2	Pass
Install Windows via Intel USB 3.0 port		Win10-64 Pro. TH2	Pass
System Install with USB flash		Win10-64 Pro. TH2	Pass
Full loading USB		Win10-64 Pro. TH2	Pass
Hot-plug		Win10-64 Pro. TH2	Pass
File access via 3 meter cable		Win10-64 Pro. TH2	Pass
Aging		O.S. Environment	Status
Data Transfer Test		Win10-64 Pro. TH2	Pass
Suspend Test		Win10-64 Pro. TH2	Pass Refer to PART D

On-board Intel USB 3.1 Controller

Follow the test procedure to test on-board USB and make sure all the functions are normal.

Package Name		O.S. Environment	Status
Firmware		Win10-64 Pro. TH2	Pass
Factory test		Win10-64 Pro. TH2	Pass
USB 3.1 driver		Win10-64 Pro. TH2	Pass
Cool boot		Win10-64 Pro. TH2	Pass
Tray Icon		Win10-64 Pro. TH2	Pass
USB 2.0 Type		O.S. Environment	Status
USB3.1_EC2		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EA34		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EA1		Win10-64 Pro. TH2	Pass
USB 3.0 Type		O.S. Environment	Status
USB3.1_EC2		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EA34		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EA1		Win10-64 Pro. TH2	Pass
USB 3.1 Type		O.S. Environment	Status
USB3.1_EC2		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EA34		Win10-64 Pro. TH2	Pass
LAN_USB3.1_EA1		Win10-64 Pro. TH2	Pass
DATA Transfer		O.S Environment	Status
USB Flash		Win10-64 Pro. TH2	Pass
Power source		Win10-64 Pro. TH2	Pass
Data transfer between USB 3.1 Device		Win10-64 Pro. TH2	Pass
USB Throughput Speed		Win10-64 Pro. TH2	Pass
USB 3.0 Over Current		Win10-64 Pro. TH2	Pass
Install Windows via USB 3.1 port		Win10-64 Pro. TH2	Pass
System Install with USB flash		Win10-64 Pro. TH2	Pass
Full loading USB		Win10-64 Pro. TH2	Pass
Hot-plug		Win10-64 Pro. TH2	Pass
Aging		O.S. Environment	Status
Data Transfer Test		Win10-64 Pro. TH2	Pass
Suspend Test		Win10-64 Pro. TH2	Pass

On-board South Bridge Serial ATA Controller

Follow the test procedure to test on-board South Bridge Serial ATA Controller driver and make sure all the functions are normal.

AHCI Mode Test 1		O.S. Environment	Status
System Install on SATA Port		Win10-64 Pro. TH2	Pass
AHCI Driver		Win10-64 Pro. TH2	Pass
Hybrid Sleeper test		Win10-64 Pro. TH2	Pass
Hot-plug Disable Function		Win10-64 Pro. TH2	Pass Refer to PART D
SATA Hot-plug (Maximum Number of Drives with AHCI mode)		Win10-64 Pro. TH2	Pass
Aging Test (All SATA)		Win10-64 Pro. TH2	Pass
TRIM function check		Win10-64 Pro. TH2	Pass
AHCI Performance test		Win10-64 Pro. TH2	Pass
AHCI Mode Test 2		O.S. Environment	Status
System Install in SSD		Win10-64 Pro. TH2	Pass
RAID 1 Test		O.S. Environment	Status
RAID Wizard		Win10-64 Pro. TH2	Pass
System Install		Win10-64 Pro. TH2	Pass
RAID Driver		Win10-64 Pro. TH2	Pass
Check RAID 1 build Finished		Win10-64 Pro. TH2	Pass
HDD Bootable Test		Win10-64 Pro. TH2	Pass
Rebuild RAID 1 Test (By SoftRAID Utility)		Win10-64 Pro. TH2	Pass
Mix Mode for Intel		Win10-64 Pro. TH2	Pass
RAID Utility or Diagnostic Program		Win10-64 Pro. TH2	Pass
Hybrid Sleeper test		Win10-64 Pro. TH2	Pass
Aging Test		Win10-64 Pro. TH2	Pass
RAID 0 Test		O.S. Environment	Status
RAID Wizard		Win10-64 Pro. TH2	Pass
System Install		Win10-64 Pro. TH2	Pass
RAID Driver		Win10-64 Pro. TH2	Pass
Create DataRAID size over 2TB		Win10-64 Pro. TH2	Pass
Hybrid Sleeper test		Win10-64 Pro. TH2	Pass
Aging Test		Win10-64 Pro. TH2	Pass
RAID Utility or Diagnostic Program		Win10-64 Pro. TH2	Pass
Smart Response (ISRT) Install OS		Win10-64 Pro. TH2	Pass
Smart Response (ISRT) Enhance Mode		Win10-64 Pro. TH2	Pass
Smart Response (ISRT) Max Mode		Win10-64 Pro. TH2	Pass
High performance		Win10-64 Pro. TH2	Pass Refer to PART D
SSHHD Test		Win10-64 Pro. TH2	Pass
Maximum Number of Drives with RAID mode		Win10-64 Pro. TH2	Pass
RAID 5 Test		O.S. Environment	Status
RAID Wizard		Win10-64 Pro. TH2	Pass
System Install		Win10-64 Pro. TH2	Pass
RAID Driver		Win10-64 Pro. TH2	Pass
Check RAID 5 build Finished		Win10-64 Pro. TH2	Pass
HDD Bootable Test		Win10-64 Pro. TH2	Pass
Rebuild RAID 5 Test		Win10-64 Pro. TH2	Pass
RAID Utility or Diagnostic Program		Win10-64 Pro. TH2	Pass
Hybrid Sleeper test		Win10-64 Pro. TH2	Pass
Aging Test		Win10-64 Pro. TH2	Pass
RAID 10 Test		O.S. Environment	Status
RAID Wizard		Win10-64 Pro. TH2	Pass
System Install		Win10-64 Pro. TH2	Pass
RAID Driver		Win10-64 Pro. TH2	Pass
Check RAID 10 build Finished		Win10-64 Pro. TH2	Pass
HDD Bootable Test		Win10-64 Pro. TH2	Pass
Rebuild RAID 10Test		Win10-64 Pro. TH2	Pass
RAID Utility or Diagnostic Program		Win10-64 Pro. TH2	Pass
Hybrid Sleeper test		Win10-64 Pro. TH2	Pass
Aging Test		Win10-64 Pro. TH2	Pass
Recovery Test		O.S. Environment	Status
RAID Wizard		Win10-64 Pro. TH2	Pass
System Install		Win10-64 Pro. TH2	Pass
RAID Driver		Win10-64 Pro. TH2	Pass
Check RAID verify Finished		Win10-64 Pro. TH2	Pass
HDD Bootable Test		Win10-64 Pro. TH2	Pass
RAID Convert Function		Win10-64 Pro. TH2	Pass
Hybrid Sleeper test		Win10-64 Pro. TH2	Pass

On-board M.2 Controller

Follow the test procedure to test on-board M.2 Controller driver and make sure all the functions are normal.

M.2 NVMe mode	O.S. Environment	Status
<i>Device information</i>	Win10-64 Pro. TH2	Pass
<i>System installation at AHCI mode</i>	Win10-64 Pro. TH2	Pass
<i>M.2 NVMe Performance</i>	Win10-64 Pro. TH2	Pass
<i>M.2 NVMe device check GEN3 x4</i>	Win10-64 Pro. TH2	Pass
<i>Stress Test</i>	Win10-64 Pro. TH2	Pass
<i>Hyper Kit</i>	Win10-64 Pro. TH2	Pass
M.2 PCIe mode	O.S. Environment	Status
<i>Device information</i>	Win10-64 Pro. TH2	Pass
<i>System installation at AHCI mode</i>	Win10-64 Pro. TH2	Pass
<i>M.2 PCIe Performance</i>	Win10-64 Pro. TH2	Pass
<i>M.2 PCIe device check GEN2 x4</i>	Win10-64 Pro. TH2	Pass
<i>M.2 PCIe device check GEN3 x4</i>	Win10-64 Pro. TH2	Pass
<i>Stress Test</i>	Win10-64 Pro. TH2	Pass
<i>Hyper Kit</i>	Win10-64 Pro. TH2	Pass

On-board U.2 Controller

Follow the test procedure to test on-board U.2 Controller driver and make sure all the functions are normal.

U.2 NVMe mode	O.S. Environment	Status
<i>Device information</i>	Win10-64 Pro. TH2	Pass
<i>System installation at AHCI mode</i>	Win10-64 Pro. TH2	Pass
<i>U.2 NVMe Performance</i>	Win10-64 Pro. TH2	Pass
<i>U.2 NVMe device check GEN3 x4</i>	Win10-64 Pro. TH2	Pass
<i>Intel NVMe 750 SSD</i>	Win10-64 Pro. TH2	Pass
<i>Stress Test</i>	Win10-64 Pro. TH2	Pass

On-board PCIEX1 Slot

Test the on-board PCIEX1 Slot to ensure the performance, functionalities and verify the driver support.

Package Name	O.S. Environment	Status
<i>Works after resume from suspend S3</i>	Win10-64 Pro. TH2	Pass
<i>Works after resume from suspend S4</i>	Win10-64 Pro. TH2	Pass
<i>Full loading PCIEX1</i>	Win10-64 Pro. TH2	Pass
<i>PCIEX1 Throughput Speed</i>	Win10-64 Pro. TH2	Pass
<i>PCIEX1 Throughput Speed afeter resume from S3</i>	Win10-64 Pro. TH2	Pass
PCIEX1 Slot test	O.S. Environment	Status
<i>PCIEX1_1 2.0 device test</i>	Win10-64 Pro. TH2	Pass
<i>PCIEX1_2 2.0 device test</i>	Win10-64 Pro. TH2	Pass

On-board PCIEX4 Slot

Test the on-board PCIEX1 Slot to ensure the performance, functionalities and verify the driver support.

Package Name	O.S. Environment	Status
<i>Works after resume from suspend S3</i>	Win10-64 Pro. TH2	Pass
<i>Works after resume from suspend S4</i>	Win10-64 Pro. TH2	Pass
<i>Full loading PCIEX4</i>	Win10-64 Pro. TH2	Pass
<i>PCIEX4 Throughput Speed</i>	Win10-64 Pro. TH2	Pass
<i>PCIEX4 Throughput Speed afeter resume from S3</i>	Win10-64 Pro. TH2	Pass
PCIEX1 Slot test	O.S. Environment	Status
<i>PCIEX4_1 2.0 device test</i>	Win10-64 Pro. TH2	Pass
<i>PCIEX4_1 3.0 device test</i>	Win10-64 Pro. TH2	Pass

On-board PCIEX16 Slot			
Test the on-board PCIEX16 Slot to ensure the performance, functionalities and verify the driver support.			
Package Name		O.S. Environment	Status
Full loading PCIEX16(nVIDIA Single GPU VGA)(BIOS Version:0212) (Driver Version: V358.50)		Win10-64 Pro. TH2	Pass
Full loading PCIEX16(nVIDIA Duo GPU VGA)(BIOS Version: 0212) (Driver Version: V358.50)		Win10-64 Pro. TH2	Pass
Full loading PCIEX16(ATI Single GPU VGA)(BIOS Version: 0212) (Driver Version:V 15.20)		Win10-64 Pro. TH2	Pass
Full loading PCIEX16(ATI Duo GPU VGA)(BIOS Version: 0212) (Driver Version:V 15.20)		Win10-64 Pro. TH2	Pass
SLI		O.S. Environment	Status
5 Slots (BIOS Version: 0212) (Driver Version:V358.50)	SLI	Win10-64 Pro. TH2	Pass
	Quad SLI	Win10-64 Pro. TH2	Pass
	3 Way	Win10-64 Pro. TH2	Pass
Performance compare		Win10-64 Pro. TH2	Pass
CrossfireX		O.S. Environment	Status
5 Slots (BIOS Version: 0212) (Driver Version:V15.20)	2 GPU(2 cards)	Win10-64 Pro. TH2	Pass
	3 GPU(3 cards)	Win10-64 Pro. TH2	Pass
	4 GPU(2 cards)	Win10-64 Pro. TH2	Pass
Performance compare		Win10-64 Pro. TH2	Pass
The combination test for the No-VGA device on the PCIEX16 slots which share a Lane:			
The first PCIEX16_1 , PCIEX16_4 Combination test			
PCIEX16_1 slot	PCIEX16_4 slot	O.S. Environment	Status
PCIEX8 device	PCIEX1 device	Win10-64 Pro. TH2	Pass
	PCIEX4 device	Win10-64 Pro. TH2	Pass
	PCIEX8 device	Win10-64 Pro. TH2	Pass
PCIEX4 device	PCIEX1 device	Win10-64 Pro. TH2	Pass
	PCIEX4 device	Win10-64 Pro. TH2	Pass
	PCIEX8 device	Win10-64 Pro. TH2	Pass
PCIEX1 device	PCIEX4 device	Win10-64 Pro. TH2	Pass
	PCIEX8 device	Win10-64 Pro. TH2	Pass
PCIEX16_1 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win10-64 Pro. TH2	Pass
PCIEX4 device test		Win10-64 Pro. TH2	Pass
PCIEX8 device test		Win10-64 Pro. TH2	Pass
PCIEX8 3.0 device test		Win10-64 Pro. TH2	Pass
PCIEX16 2.0 device test		Win10-64 Pro. TH2	Pass
PCIEX16 3.0 device test		Win10-64 Pro. TH2	Pass
PCIEX16_2 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win10-64 Pro. TH2	Pass
PCIEX4 device test		Win10-64 Pro. TH2	Pass
PCIEX16_3 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win10-64 Pro. TH2	Pass
PCIEX4 device test		Win10-64 Pro. TH2	Pass
PCIEX8 device test		Win10-64 Pro. TH2	Pass
PCIEX8 3.0 device test		Win10-64 Pro. TH2	Pass
PCIEX16 2.0 device test		Win10-64 Pro. TH2	Pass
PCIEX16 3.0 device test		Win10-64 Pro. TH2	Pass
PCIEX16_4 Slot test		O.S. Environment	Status
PCIEX1 2.0 device test		Win10-64 Pro. TH2	Pass
PCIEX4 device test		Win10-64 Pro. TH2	Pass
PCIEX8 device test		Win10-64 Pro. TH2	Pass
PCIEX8 3.0 device test		Win10-64 Pro. TH2	Pass
On-board TPM			
Follow the test procedure to test on-board Infineon TPM and make sure all the functions are normal.			
Package Name		O.S. Environment	Status
TPM Card State Check		Win10-64 Pro. TH2	Pass
TPM Support		Win10-64 Pro. TH2	Pass
Install O.S with TPM		Win10-64 Pro. TH2	Pass
Disable Take Ownership		Win10-64 Pro. TH2	Pass
Enable Take Ownership		Win10-64 Pro. TH2	Pass
Enable BitLocker with TPM only		Win10-64 Pro. TH2	Pass

On-board TPM		
Follow the test procedure to test on-board Infineon TPM and make sure all the functions are normal.		
Package Name	O.S. Environment	Status
<i>Enable BitLocker with TPM + Pin</i>	Win10-64 Pro. TH2	Pass
<i>Enable BitLocker with TPM + USB flash</i>	Win10-64 Pro. TH2	Pass
<i>Works after resume from suspend S3</i>	Win10-64 Pro. TH2	Pass
<i>Works after resume from suspend S4</i>	Win10-64 Pro. TH2	Pass
<i>Initialization</i>	Win10-64 Pro. TH2	Pass
<i>Configuration</i>	Win10-64 Pro. TH2	Pass
<i>Windows System Rebooting</i>	Win10-64 Pro. TH2	Pass
TPM Information	O.S. Environment	Status
<i>TPM State</i>	Win10-64 Pro. TH2	Pass
Password Management	O.S. Environment	Status
<i>Change Owner Password</i>	Win10-64 Pro. TH2	Pass
<i>Change User Password</i>	Win10-64 Pro. TH2	Pass

5.3 Stress Test

Stress Test		
Run the aging programs to test system stable-ability.		
Benchmark	O.S. Environment	Status
<i>3Dmark</i>		Pass
<i>OpenGL+ LAN</i>		Pass
<i>Prime95</i>		Pass
<i>Heaven Benchmark</i>		Pass
Reboot test	O.S. Environment	Status
<i>Reboot test</i>		Pass
Suspend test	O.S. Environment	Status
<i>Suspend test (S3+S4)</i>		Pass
<i>Suspend test (S3+S4) nVIDIA VGA card</i>		Pass
<i>Suspend test (S3+S4) ATi VGA card</i>		Pass
<i>Suspend test (S3 only)</i>		Pass
Data access test	O.S. Environment	Status
<i>Maximum Loading test</i>		Pass

Part C. Qualified Vendors List - Devices

1. Power Supplies

1. Power Supplies

Model	
AcBel	R88 PC7063
Aero Cool	STRIKE-X 600W
Antec	EA-500D
	EA-650 EarthWatts Green
	TP-750C
	EDG750
AYWUN	A1-550-ELITE
Be quiet	BQT L7-530W
	BQ L8-500W
BitFenix	FURY 650G
BUBALUS	PG800AAA
COOLER MASTER	RS-550-ACAA-B1
	RS-850-AFBA-G1
	RS-750-AMAA-G1
	RS-C00-AFBA-G1
Corsair	AX1500i 75-001971
	CS850M 75-010929
	RM750-RPS0019
	RPS0018(RM1000X)
	SF600
	SF450
D.HIGH	CX450M
	DHP-200KGGH-80P
ENERMAX	ERX730AWT
	ERV1200EWT-G
EVGA	220-P2-1200-X1
FSP	PT-650M
Huntkey	WD600
OCZ	OCZ-FTY750W
Power Man	IP-S450HQ7-0
Rosewill	HIVE-850S
	PHOTON-1200
Seasonic	SS-400FL
	SSR-450RM Active PFC F3
	SS-1200XP3 Active PFC F3
Seventeam	ST-550P-AD
SILVERSTONE	SST-60F-P
	SST-ST85F-GS
Thermaltake	TPG-0850D
	TPD-1200M

2. Hard Drives

2.1. HDD Devices

Type	Model	
SATA 6G	Hitachi	H31K40003254SA
		HDS723030ALA640

		HDS724040ALE640
	Samsung	HD322GM
	Seagate	ST1000DM003
		ST1000DX001
		ST1000LM014-3Y/P
		ST1000NM0011
		ST2000NM0033
		ST2000NX0243
		ST3750528AS
		ST4000DM000
		ST500DM002
		ST500LM000-3Y/P
		ST6000NM0024
		ST750LX003
		ST8000AS0002
	Toshiba	HDS721010DLE630
	WD	WD 60EZR
		WD 60PURX
		WD WD1002FAEX
		WD WD1003FZEX
		WD WD10EZEX
		WD WD10J31X
		WD WD2003FZEX
		WD WD20EFRX
		WD WD25EZRX
		WD WD30EFRX
		WD WD30EZRX
		WD WD4001FAEX
		WD WD5000AAKX
		WD WD5000AZLX
		WD WD5000HHTZ
		WD WD60EFRX
		WD10PURX
		WD20PURX
		WD6001FZWX
SATA 3G		Seagate
	Simmtrnics	WD10EADS
	Toshiba	MK5061GSYN
	WD	WD30EZRS

2.2. SSD Devices

Type	Model	
SATA 6G	ADATA	ADATA SP920SS 256GB
		ADATA ASX930SS3 120GB
		ADATA ASX930SS3 240GB
	APACER	APACER-SSD-AS510S
		APACER THUNDERBIRDAST680S 240GB
	AMD	RADEON R7-240GB (OCZ)
	Crucial	CRUCIAL MX100 256GB
		CRUCIAL M500 240GB
		CRUCIAL M550 128GB
		CRUCIAL-MX200-250GB
	Corsair	Corsair NEUTRON 128GB

		CORSAIR FORCE GS 240GB
	FUJITSU	FUJITSU-SSD-FSA-128G-128GB
	Intel	Intel SSD 530 Series-120G
		Intel SSD 535 Series -180GB
		Intel SSD 730 Series-240G
		Intel SSD 540 Series-240G
	Kingston	Kingston V300 120GB
		Kingston V300 60GB
		Kingston HYPERX 120GB
		Kingston HYPERX Fury 240GB
	KINGMAX	KINGMAX KM120GSME32 120GB
	OCZ	OCZ ARC100 240GB
		OCZ VECTOR150 240GB
		OCZ VTX450-25SAT3-256G
		OCZ VTX460-25SAT3-120G
		OCZ VECTOR180-240GB
		OCZ VTX460A-25SAT3-240GB
		OCZ TRN100-25SAT3-240GB
		OCZ-SSD-TRN150-25SAT3-240GB
	Plextor	Plextor SSD M5 PRO
		Plextor PX-256M6S
		Plextor PX-256M6PRO
	SanDisk	SanDisk Ultra Plus SSD 256G
		SanDisk EXTREME PRO 240G
	Samsung	SAMSUNG SSD 840 PRO SERIES 128GB
		SAMSUNG SSD 830 SERIES 128GB
		SAMSUNG SSD 840 EVO 120GB
		SAMSUNG SSD 850 PRO 256GB
		SAMSUNG SSD 850 EVO 1TB
	Seagate	ST120HM000
	SiliconPower	SiliconPower V60 120G
	SZGALAXY	SZGALAXY-SSD-GX0120MT103-A1
	TRANSCEND	TRANSCEND SSD320 256GB
		TRANSCEND SSD370S-TS256GSSD370S 256GB
	TIGO	TIGO-SSD-S500-120GB
		TIGO-SSD-S500-60GB
		TIGO-SSD-S300-60GB
SATA 3G	Intel	Intel SSDSA2CW1203K5
	MemoRight	MemoRight FTM-25
	SanDisk	SDSSDH-120G G25
	Team	TG120GS25ACEM
	Transcend	TS128GSSD25S-M

2.3. M.2 SSD

Type	Model	
PCIe	LITEON	LITEON LGT-128B1P-2280 128GB (For AHCI mode)
		LITEON LJT-128B1P-2260 128GB (For AHCI mode)
	HYPERX	HYPERX PREDATOR SSD 240GB
	SANDISK	SANDISK SD6PP4M 128GB (For AHCI mode)
		SANDISK SD6PP4M 256GB (For AHCI mode)
	SAMSUNG	SAMSUNG MZ-HPU128T/004 (XP941) (For AHCI mode)
		SAMSUNG-MZ-HPU512T/000 (XP941) (For AHCI mode)
		SAMSUNG-MZ-HPV2560-256GB (SM951) (For AHCI mode)

SAMSUNG-MZ-HPV5120-512GB (SM951) (For AHCI mode)
SAMSUNG-MZ-VPV1280-128GB (SM951) (For AHCI mode)
SAMSUNG-MZ-VPV1280-128GB (SM951) (For NVMe mode)
SAMSUNG-MZ-VPV2560-256GB (SM951) (For NVMe mode)
SAMSUNG-MZ-VKV512-512GB (950 PRO) (For NVMe mode)

2.4. PCIE SSD

Type	Model	
PCIE	ASUS	RAIDR EXPRESS 240G
	Intel	DC 750 Series 400GB
	OCZ	REVODRIVE350 480GB
	Plextor	M6e 128GB

3. Peripheral

3.1. USB Storage

3.1.1. Card Readers

Type	Model	
USB 2.0	EasyATM	K100 Card Reader
USB 3.0	Kingston	FCR-HS3 USB 3.0 Media Reader
	Transcend	Multi Card Reader TS-RDF8

3.1.2. External Enclosures

Type	Model	
USB 3.0	ASUS	Wireless Duo 500GB
	ARCHGON	MH-2619-U3-640GB
	Buffalo	HD-LX2.0TU3-AP
	CyberSLIM	S2-U3C-6G
	OWLTECH	OWL-ESL25S/U3(B)
	Seagate	1AYBA2-1TB
	Silicon Power	ARMOR A30
	WD	My BOOK 3.0-4TB
USB 3.1	AKiTiO	Neutrino Bridge
	AVLAB	JU-SA0Q12-S1
	Century	CSS25U31BK
		CROSU31S
	CFD	GW2.5FST-SU3.1
	Creative	1 BAY 2.5 SATA ENCLOSURE
	CyberSlim	S1-USB3.1
	GODO	GD25702
	HighPoint	RocketStor 3122B
	HORNETTEK	HT-219AP3
	IOCREST	IO-STC1351
		IO-STC567
	J2C	REMOVABLE HDD
	JEM	U3-HD010
	SSI	SSI-2226US31
	Sunnywill	SW20A12
	Sunrich	U-1040

	SUPERTALENT	PORTABLE SSD 512GB
	Thunderwing	TW-SN802 (Type_A)
		TW-SN802 (Type_C)
		TW-SNR01
	UNITEK	Y-3366
		Y-3605
	UPTECH	EHE207
	Vantec	NST-270A31

3.1.3. USB Pen Drives

Type	Model	
USB 3.0	APACER	AH450 32GB
	CORSAIR	VOYAGER GTX 128GB
	Kingston	DTU30G3 32GB
	LEXAR	S33 32GB
	PATRIOT	SUPERSONIC MAGNUM 256GB
	PNY	TURBO PLUS 128GB
	SILICON	POWER-MARVEL M60 64GB
	SONY	USM32GQX 32GB
	TEAM	T132 64GB
USB 3.1 Gen1	ADATA	UC350 64GB
	Kingston	DTDUO3C 32GB
	PQI	Connect 312 32GB
	Sandisk	DUAL 32GB
	Transcend	TS64GJF890S 64GB

3.1.4. USB Hubs

Type	Model	
PCIEX1	DTECH	PC0149C
	HANBODA	KZ1802Q
	SUNIX	USB2311C
	SYBA	FG-EN101-4E1I
PCIEX2	DigiFusion	PTU312A
	SUNIX	USB2312
PCIEX4	ASUS	USB 3.1 Type-C Card
USB 3.0	Amazon	USBN 3.0 10 port HUB
	UNITEK	Y-2167BK
	ORICO	W8PH4
USB 3.1 Type-C	ASUS	USB 3.1 Type-C HUB
	KUGI	USB 3.1 Type-C Hub

3.2. Audio

3.2.1. Audio Decoder

Type	Model	
SPDIF	Denon	AVR-E200
	Pioneer	VSX-323
	SONY	STR-DH740
	YAMAHA	RX-V377

3.2.2. Earphone Devices

Type	Model	
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Line Out	AKG	AKG K612 PRO
	Audio-technica	Audio-technica -ATH-R70X
		Audio-technica ATH-M50
		Audio-technica ATH-XS7
	RAZER	RAZER-TIAMAT 7.1
	ROCCAT	ROCCAT KAVE-SOLID 5.1-
	Sennheiser	Sennheiser CX300-II
		Sennheiser HD650
		Sennheiser PC350
	SONY	SONY-MDR-XD200
SONY-MDR-ZX100		
SONY-STEREO HEADSET DR-ZX102DPV		
TDK	TDK-ST750	
BT	Bluedio	Bluedio-DF33T Bluetooth Headset
	Jabra	Jabra Style-Bluetooth Headset 耳掛式耳機
	Sony	SONY SBH60

3.2.3. Microphone Devices

Type	Model	
MIC In	Intopic	jazz-016

3.2.4. Sound Adapters

Type	Model	
PCIEX1	ASUS	XONAR D2X
		XONAR Essence STX II
	Creative	Creative Blaster Z
	SADES	SA901C
USB2.0	ASUS	XONAR U7
	CREATIVE	Sound Blaster Omni Surround 5.1 SB1560
	SOMIC	G909

3.2.5. Speaker

Type	Model	
Line out	ALTEC	ALTEC BX1220 USB-Powered Speaker System
	CREATIVE	CREATIVE T6300
		CREATIVE A550
	Logitech	Logitech Z623
Logitech Z-506 5.1CH		
BT	SONY	SONY SRS-BTM8
USB	Atake	Atake ASP-002

3.3. Controller Cards

3.3.1 Graphic Cards

Type	Model	
AMD Chipset	ASUS	ASUS STRIX-R9FURY-DC3-4G-GAMING (VBIOS: V015.049.000.004 AS02)
		ASUS R7240-1GD3 (VBIOS: V6613HB.15.44.0.12.AS01)
		ASUS R7250-DI-1GD5 (UEFI VBIOS: V6610HB.15.38.0.0.AS01)
		ASUS R7250X-2GD5

		(VBIOS: V683DHB.15.42.0.3.AS01)
		ASUS R7260X-DC2OC-2GD5 (BIOS: V6658HB.15.42.0.3.AS01)
		ASUS STRIX-R9380-DC2OC-4GD5-GAMING (BIOS:015.049.000.003.AS01)
		ASUS R7360-OC-2GD5 (VBIOS: V015.049.000.001 AS02)
		ASUS STRIX-R7370-DC2OC-4GD5-GAMING (VBIOS: V015.048.000.057 AS02)
		ASUS R9270-DC2OC-2GD5-2DIS (VBIOS: V6811HB.15.39.0.1.AS03)
		ASUS R9270X-DC2T-2GD5 (BIOS: V6810HB.15.38.0.3.AS03)
		ASUS R9280-DC2-3GD5-2DIS (VBIOS: V679AHB.15.44.0.5.AS01)
		ASUS STRIX-R9390-DC3OC-8GD5-GAMING (BIOS: 015.049.000.004.AS11)
		ASUS R9290X-DC2OC-4GD5 (BIOS: V67B0HB.15.41.0.2.AS04CL/AS04A)
		ASUS STRIX-R9390X-DC30C-8GD5-GAMING (VBIOS: V015.049.000.004 AS01)
		ASUS Matrix R9290X-P-4GD5 (VBIOS: 67B0HB.15.42.0.3.AS05L)
		ASUS R9FURYX-4GHBM-3SI (VBIOS: V7300HB.15.48.0.66.AS01)
		ASUS AMD R9NANO (VBIOS:015.049.000.004.AS05)
	Colorfire	Colorfire R7-260X Twin-1GD5 (BIOS: V015.040.000.002)
	GIGABYTE	GIGABYTE GV-R938XG GAMING-4GD
	Sapphire	SAPPHIRE R7250X-1GB-GDDR5- (VBIOS: V015.042.000.003)
	XFX	XFX R9270-2GBD5 double dissipation (VBIOS: V015.044.000.015)
nVidia Chipset	ASUS	ASUS 710-1-SL (BIOS:80.28.A6.00.01)
		ASUS GT740-DF-2GD5 (80.07.D9.00.39.AS09)
		ASUS Strix GTX750Ti-DC2OC-4GD5 (VBIOS: V82.07.55.00.AS06)
		ASUS-GTX760-DC2OC-2GD5-2DIS (VBIOS:V80.04.BF.00.AS04)
		ASUS STRIX-GTX980TI -DC3OC-6GD5 (VBIOS: V84.00.36.00.2B AS08)
		ASUS Strix GTX960-DC2OC-2GD5 (VBIOS: V84.06.0D.00.AS01)
		ASUS GTX970-DCMOC-4GD5 (VBIOS: V84.04.1F.00.AS23)
		TURBO-GTX970-OC-4GD5 (VBIOS: V84.04.36.00.85)
		STRIX-GTX950-DC2OC-2GD5-GAMING (VBIOS:V84.06.2F.00.AS02)
		GTX TITANZ-12GD5-2DIS

		(VBIOS: V80.80.5A.00.AS01)
		ASUS GTX980-4GD5-DI3S (VBIOS: V84.04.1F.00.AS07)
		ASUS GTX980Ti-6GD5-DI3S (VBIOS: V84.00.32.00.AS01)
		ASUS Poseidon GTX980-P-4GD5 (VBIOS: V84.04.1F.00.AS16)
		ASUS GTX TITANX-12GD5-DI3S (VBIOS: V84.00.1F.00.AS01)
	EVGA	EVGA GTX780 3GD5 SC (UEFI VBIOS: V80.10.3A.00.80)
	MSI	MSI GTX 960 GAMING 2G (VBIOS:84.06.0D00.F1)

3.3.2. 1394 Cards

Type	Model	
PCIEX1	SYBA	FG-EFWB-V1T-003BI-1

3.3.3. SATA/SAS RAID Controller Cards

Type	Model	
PCIEX1	ADAPTEC	6405E
	SYBA	SI-PEX40064
	UPTECH	SR300
PCIEX4	HighPoint	Rocket 640L
	SYBA	FG-EST17A
PCIEX8	Areca	ARC-1882I
	ATTO	ExpressSAS H6F0 GT
	HighPoint	RocketRAID 2720
		RocketRAID 3620
	LSI	MegaRAID SAS 9260-8i
MegaRAID SAS 9271-8i		

3.3.4. Thunderbolt Expansion Cards

Type	Model	
PCIEX4	ASUS	ThunderboltEX II
PCIEX4	ASUS	ThunderboltEX II Dual
PCIEX4	ASUS	ThunderboltEX III

3.4. Ethernet

3.4.1. 100 BaseTx Networking Cards

Type	Model	
USB 2.0	Xiaomi	USB2.0 to RJ-45 LAN Card

3.4.2. 1000 BaseTx Networking Cards

Type	Model	
PCIEX1	ASUS	PEB-G21 Rev 1.00
	DigiFusion	PETL01B
	Intel	9400PT
	TP-Link	TG-3468

PCIEX4	Intel	E1G42ETBLK
USB 3.0	AIBO	CB-USBC-RJ45
	Broway	BW-L1074A

3.4.3. 10G BaseTx Networking Cards

Type	Model	
PCIEX4	ASUS	ROG 10G Express
PCIEX8	Intel	X540-T2 (10G)

3.4.4. Wireless Ethernet Adapters

Type	Model	
PCIE	ASUS	ASUS PCE-AC56
		ASUS PCE-AC68
		ASUS PCE-N10
		ASUS PCE-N15 B1
	TP-LINK	TL-WDN4800
	DigiFusion	PETL01B
USB2.0	ASUS	USB-AC53
	NETGEAR	A6200
	TP-Link	TL-WDN3200
USB3.0	D-Link	DWA-182 ver:C1

3.4.5. Wireless LAN Access Point

Type	Model	
LAN	ASUS	EA-N66(N900)
		RT-N56U
	D-Link	DIR-810L
		DIR-868L
	TP-Link	Archer C7(AC1750)
	ZyXEL	NBG6503(AC750)
		NBG6716(AC1750)

3.4.6. Networking Hubs/Switches/Routers

Type	Model	
Home Plug	ZyXEL	PLA-4211
Switch	TP-Link	TL-SG1005D
	ZyXEL	GS-1100-24

3.5. Fans and Heatsinks

Type	Model	
Intel LGA2011-X	COOLERMASTER	V4 GTS
		NEPTON 280L
	Intel	TS13X
	NOCTUA	NH-U9S
	SILVER STONE	TD02
	Thermalright	AXP-100
		Nic C5
	XIGMATEK	ORTHRUS

3.6. Keyboard and Mouse

3.6.1. Keyboards

Type	Model	
PS/2	LOGITECH	K100
	STEELSERIES	7G
USB2.0	CHERRY	G80-3000LPCEU-2
	Corsair	RAPTOR K50
		VENGEANCE K60
	DASKEYBOARD	DAS KEYBOARD 4
	DARE-U	ZHONG ZHUANG JIA BING
	FILCO	NINJA
	FUHLEN	SC950 OMG
	LBOTS	DK130500041
	LISHENG	KB-118
	Logitech	G910
	QPAD	MK-85V
	RealForce	108UBK
	ROYAL	KLUDGE RG-928

3.6.2. Keyboard + Mice Combos

Type	Model	
PS/2	A4TECH	KB-N9000
USB2.0	ALUA	SHARK DRAGON BEHEAD
	LANGTU	LT300 (Henry測試專用)
	Logitech	Logitech G100s
	MICROSOFT	COMFORT 5000
	NEWMEN	BE IN LOVE 350
	RAPOO	8000

3.6.3. Mice

Type	Model	
Bluetooth	Microsof	DESIGNER BLUETOOTH MOUSE
USB2.0	AORUS	Thunder M7
	ASUS	STRIX CLAW
		SICA
	CM STORM	REAPER
	LEETGION	HELLION
	LISHENG	LX-305
	Logitech	WIRELESS M560
		T650
	QPAD	OM5K
	RAZER	DEATHADDER 1800DPI
	ROCCAT	LUA4
	STEELSERIES	RIVAL
	XINMENG	XM-M398

3.7. Optical Drives

Type	Model	
SATA	ASUS	BC-12B1ST
		BW-12B1ST
		BW-14D1XT

		DRW-24D3ST
		DVD-E818A9T
		BW-16D1HT
		DRW-24D5MT
	LG	GH24NSB0
	Lite-On	IHAS124
		IHAS524
	Pioneer	BDR-207EBK
		BDR-208EBK
		BDR-209DBK
		BDR-S07XLB
		BDR-S08XLT
		DVR-220CHV
		DVR-S20L
	DVR-S21LBK	
Plextor	PX-891SAW	
	PX-B950SA	
Samsung	SH-222AB	
	SH-224DB	
USB 2.0	ASUS	SBW-06D2X-U
		SDRW-08D2S-U
		SDRW-08U5S-U
	Lite-On	eBAU108
USB 3.0	ASUS	BW-12D1S-U
	archgon	MD-3107G-U3
	LG	BE14NU40
	Pioneer	BDR-XS06T

3.8. Multi-function Printers

Type	Model	
USB2.0	Brother	MFC-J625DW
	Canon	PIXMA MX377
	EPSON	DS-30
	HP	OFFJET4630
	Plustek	OpticPro ST640
	Samsung	M2020W

3.9. TV Tuner & Video Capture Cards

Type	Model	
PCIEX1	AverMedia	RECENTRAL
	COMPRO	E750
	HAUPPAUGE	HVR 2250
USB 2.0	Uptech	Hybrid TV HD 3

3.10. Others Input Device

3.10.1. Apple Devices

Type	Model	
USB 2.0	Apple	iPAD mini 16GB

	iPhone 5 16GB
	iPhone 6S 16GB

3.10.2. Android Series Device

Type	Model	
USB 2.0	ASUS	New Nexus7 16GB
	Amazon	Fire HD7 (4th Generation)
	MI	PAD 16GB
	Nokia	N1 32GB

3.10.3. Bluetooth Adapter

Type	Model	
USB 2.0	SEEHOT	SBD-40

3.10.4. Tablets

Type	Model	
USB 2.0	Bravod	ST-2121 12.1
	Wacom	BAMBOO PAD

3.10.5. Joystick

Type	Model	
USB 2.0	Logitech	G27 RACING WHEEL
	MADCATZ	FLY5

3.10.6. PC Camera Devices

Type	Model	
USB 2.0	Logitech	C910
	Rosewill	RCM-8163 True 1.3 M Effective Pixels USB WebCam

3.10.7. VR Device

Type	Model	
USB 3.0	HTC	HTC Vive
	Oculus	Oculus Rift

PART D. BUGS & LIMITATIONS

1. Bugs:

77, 84, 86, 99, 129, 130, 134, 157, 174, 178, 181, 187, 189, 191, 192, 195, 196, 199, 203, 204, 223, 225, 229, 233, 237, 238, 241, 246, 249, 250, 251, 263, 265, 270, 272, 274, 278, 280, 281, 282, 284, 286, 287, 290, 292, 298, 300, 303, 305, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329

2. Limitations:

93, 123, 138, 145, 173, 224, 238, 252, 279, 289