

2 DIMM Slots

- **1 DIMM:** Supports one module inserted in any slot as single-channel memory configuration
- **2 DIMM:** Supports one pair of modules inserted into all slots that operates in a dual-channel memory configuration

-Do not combine DIMMs from multiple kits—even ones of the same make and model. Mixing and matching DIMMs can result in failure to boot. single DIMMs is not recommended because compatibility cannot be guaranteed. For the best results, please ensure all memory modules are of the same version or have the same data code (D/C) from the same vendor. Check with the memory vendor to get the correct memory modules.

-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

-The stability and compatibility of memory modules with XMP profiles that operate beyond the JEDEC memory standard are not guaranteed. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 3400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3400C16D-16GSXW	16GB(8GB*2)	SS	Samsung		16-16-16-36	1.35V	•	

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 3466 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Options)	
								2 DIMM	4 DIMM
KLEVV	KD48GU880-34A170X	16GB(8GB*2)	SS	SK Hynix		17-19-19-39	1.35V	•	
CORSAIR	CMK32GX4M4B3466C16 ver4.31	32GB(8GB*4)	SS	Samsung		16-18-18-36	1.35V	•	•

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 3600 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3600C18D-16GTZR	16GB(8GB*2)	SS	SK Hynix		18-22-22-42	1.35V	•	
G.SKILL	F4-3600C15D-16GTRSB	16GB(8GB*2)	SS	Samsung		15-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-16GVKC	16GB(8GB*2)	SS	SK Hynix		16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-16GVK	16GB(8GB*2)	SS	SK Hynix		18-22-22-42	1.35V	•	
G.SKILL	F4-3600C14D-16GTZN	16GB(8GB*2)	SS	Samsung		14-15-15-35	1.4V	•	
G.SKILL	F4-3600C16D-16GTZN	16GB(8GB*2)	SS	Samsung		16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-16GTZNC	16GB(8GB*2)	SS	SK Hynix		16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-16GTZN	16GB(8GB*2)	SS	SK Hynix		18-22-22-42	1.35V	•	
G.SKILL	F4-3600C14D-16GTZR	16GB(8GB*2)	SS	Samsung		14-15-15-35	1.4V	•	
G.SKILL	F4-3600C16D-16GTZR	16GB(8GB*2)	SS	Samsung		16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-16GTZRC	16GB(8GB*2)	SS	SK Hynix		16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-16GTZRC	16GB(8GB*2)	SS	SK Hynix		18-22-22-42	1.35V	•	
G.SKILL	F4-3600C14D-16GTRG	16GB(8GB*2)	SS	Samsung		14-15-15-35	1.4V	•	
G.SKILL	F4-3600C16D-16GTRG	16GB(8GB*2)	SS	Samsung		16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-16GTRGC	16GB(8GB*2)	SS	SK Hynix		16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-16GTRG	16GB(8GB*2)	SS	SK Hynix		18-22-22-42	1.35V	•	
G.SKILL	F4-3600C14D-16GTRS	16GB(8GB*2)	SS	Samsung		14-15-15-35	1.4V	•	
G.SKILL	F4-3600C16D-16GTRS	16GB(8GB*2)	SS	Samsung		16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-16GTRSC	16GB(8GB*2)	SS	SK Hynix		16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-16GTRS	16GB(8GB*2)	SS	SK Hynix		18-22-22-42	1.35V	•	
G.SKILL	F4-3600C16Q-32GVKC	32GB(8GB*4)	SS	SK Hynix		16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-32GVK	32GB(8GB*4)	SS	SK Hynix		18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C14Q-32GTZN	32GB(8GB*4)	SS	Samsung		14-15-15-35	1.4V	•	•
G.SKILL	F4-3600C16Q-32GTZN	32GB(8GB*4)	SS	Samsung		16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-32GTZNC	32GB(8GB*4)	SS	SK Hynix		16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-32GTZN	32GB(8GB*4)	SS	SK Hynix		18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C14Q-32GTZR	32GB(8GB*4)	SS	Samsung		14-15-15-35	1.4V	•	•
G.SKILL	F4-3600C16Q-32GTZR	32GB(8GB*4)	SS	Samsung		16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-32GTZRC	32GB(8GB*4)	SS	SK Hynix		16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-32GTZRC	32GB(8GB*4)	SS	SK Hynix		18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C14Q-32GTRG	32GB(8GB*4)	SS	Samsung		14-15-15-35	1.4V	•	•
G.SKILL	F4-3600C16Q-32GTRG	32GB(8GB*4)	SS	Samsung		16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-32GTRGC	32GB(8GB*4)	SS	SK Hynix		16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-32GTRG	32GB(8GB*4)	SS	SK Hynix		18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C14Q-32GTRS	32GB(8GB*4)	SS	Samsung		14-15-15-35	1.4V	•	•
G.SKILL	F4-3600C16Q-32GTRS	32GB(8GB*4)	SS	Samsung		16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-32GTRSC	32GB(8GB*4)	SS	SK Hynix		16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-32GTRS	32GB(8GB*4)	SS	SK Hynix		18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C19Q-32GSXW	32GB(8GB*4)	SS	SK Hynix		19-19-19-39	1.35V	•	•

G.SKILL	F4-3600C16D-32GVKC	32GB(16GB*2)	DS	SK Hynix	16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-32GVK	32GB(16GB*2)	DS	SK Hynix	18-22-22-42	1.35V	•	
G.SKILL	F4-3600C16D-32GTZN	32GB(16GB*2)	DS	Samsung	16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-32GTZNC	32GB(16GB*2)	DS	SK Hynix	16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-32GTZN	32GB(16GB*2)	DS	SK Hynix	18-22-22-42	1.35V	•	
G.SKILL	F4-3600C16D-32GTZR	32GB(16GB*2)	DS	Samsung	16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-32GTZRC	32GB(16GB*2)	DS	SK Hynix	16-19-19-39	1.35V	•	
G.SKILL	F4-3600C17D-32GTZR	32GB(16GB*2)	DS	Samsung	17-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-32GTZRC	32GB(16GB*2)	DS	SK Hynix	18-22-22-42	1.35V	•	
G.SKILL	F4-3600C16D-32GTRG	32GB(16GB*2)	DS	Samsung	16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-32GTRGC	32GB(16GB*2)	DS	SK Hynix	16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-32GTRG	32GB(16GB*2)	DS	SK Hynix	18-22-22-42	1.35V	•	
G.SKILL	F4-3600C16D-32GTRS	32GB(16GB*2)	DS	Samsung	16-16-16-36	1.35V	•	
G.SKILL	F4-3600C16D-32GTRSC	32GB(16GB*2)	DS	SK Hynix	16-19-19-39	1.35V	•	
G.SKILL	F4-3600C18D-32GTRS	32GB(16GB*2)	DS	SK Hynix	18-22-22-42	1.35V	•	
G.SKILL	F4-3600C16Q-64GVKC	64GB(16GB*4)	DS	SK Hynix	16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-64GVK	64GB(16GB*4)	DS	SK Hynix	18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTZN	64GB(16GB*4)	DS	Samsung	16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTZNC	64GB(16GB*4)	DS	SK Hynix	16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-64GTZN	64GB(16GB*4)	DS	SK Hynix	18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTZR	64GB(16GB*4)	DS	Samsung	16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTZRC	64GB(16GB*4)	DS	SK Hynix	16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-64GTZRC	64GB(16GB*4)	DS	SK Hynix	18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTRG	64GB(16GB*4)	DS	Samsung	16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTRGC	64GB(16GB*4)	DS	SK Hynix	16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-64GTRG	64GB(16GB*4)	DS	SK Hynix	18-22-22-42	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTRS	64GB(16GB*4)	DS	Samsung	16-16-16-36	1.35V	•	•
G.SKILL	F4-3600C16Q-64GTRSC	64GB(16GB*4)	DS	SK Hynix	16-19-19-39	1.35V	•	•
G.SKILL	F4-3600C18Q-64GTRS	64GB(16GB*4)	DS	SK Hynix	18-22-22-42	1.35V	•	•
CORSAIR	CMK16GX4M2Z3600C18 ver3.31	16GB(8GB*2)	SS	Spectek	18-22-22-42	1.35V	•	•
CORSAIR	CMK16GX4M2D3600C18 ver3.31	16GB(8GB*2)	SS	Spectek	18-22-22-42	1.35V	•	•
CORSAIR	CMK16GX4M2B3600C18 ver5.32	16GB(8GB*2)	SS	SK Hynix	18-19-19-39	1.35V	•	•
CORSAIR	CMK16GX4M2Z3600C14 ver4.31	16GB(8GB*2)	SS	Samsung	14-16-16-36	1.45V	•	•
CORSAIR	CMT16GX4M2K3600C18 ver4.31	16GB(8GB*2)	SS	Samsung	16-18-18-36	1.35V	•	•
CORSAIR	CMT16GX4M2C3600C18 ver4.31	16GB(8GB*2)	SS	Samsung	18-19-19-39	1.35V	•	•
CORSAIR	CMT16GX4M2C3600C18 ver3.31	16GB(8GB*2)	SS	Spectek	18-19-19-39	1.35V	•	•
CORSAIR	CMW16GX4M2Z3600C18 ver3.31	16GB(8GB*2)	SS	Spectek	18-22-22-42	1.35V	•	•
CORSAIR	CMK32GX4M4D3600C18 ver3.31	32GB(8GB*4)	SS	Spectek	18-22-22-42	1.35V	•	•
CORSAIR	CMK32GX4M4B3600C18 ver4.31	32GB(8GB*4)	SS	Samsung	18-19-19-39	1.35V	•	•
CORSAIR	CMK32GX4M4B3600C18R ver4.31	32GB(8GB*4)	SS	Samsung	18-19-19-39R	1.35V	•	•
CORSAIR	CMT32GX4M4C3600C18 ver3.31	32GB(8GB*4)	SS	Spectek	18-19-19-39	1.35V	•	•
CORSAIR	CMT32GX4M4K3600C18 ver4.31	32GB(8GB*4)	SS	Samsung	16-18-18-36	1.35V	•	•
CORSAIR	CMT32GX4M4C3600C18 ver4.31	32GB(8GB*4)	SS	Samsung	18-19-19-39	1.35V	•	•
CORSAIR	CMR32GX4M4C3600C18 ver4.31	32GB(8GB*4)	SS	Samsung	18-19-19-39	1.35V	•	•

CORSAIR	CMW32GX4M4C3600C16 ver4.31	32GB(8GB*4)	SS	Samsung	18-19-19-39	1.35V	•	•
CORSAIR	CMK32GX4M2K3600C16 ver4.31	32GB(16GB*2)	DS	Samsung	16-18-18-36	1.35V	•	
ZADAK	ZD4-SHD3600C17-08GAS	8GB	SS	Samsung	17-19-19-39	1.35V	•	•
Hyper X	HX436C17PB3K4/32	32GB(8GB*4)	SS	Samsung	17-18-18-39	1.35V	•	•
Hyper X	HX436C17PB3AK4/32	32GB(8GB*4)	SS	Samsung	17-18-18-39	1.35V	•	•
Hyper X	HX436C17PB4K4/32	32GB(8GB*4)	SS	SK Hynix	17-19-19-39	1.35V	•	•
Hyper X	HX436C17PB4AK4/32	32GB(8GB*4)	SS	SK Hynix	17-19-19-39	1.35V	•	•
ADATA	AX4U360038G17-BRZ	8GB	SS	Samsung	17-18-18-38	1.35V	•	
ADATA	AX4U360038G17-BR80	8GB	SS	Samsung	17-18-18-38	1.35V	•	
V-COLOR	TL48G36S8BNRGB18	8GB	SS	SK Hynix	18-19-19-39	1.35V	•	
CRUCIAL	BLE8G4D36BEEAK.M8FE1	8GB	SS	Micron	16-18-18-38	1.35V	•	
CRUCIAL	BLS8G4D36BESBK.8FE	8GB	SS	Micron	16-18-18-38	1.35V	•	
TEAMGROUP	TF1D416G3600HC18EDC01	16GB(8GB*2)	SS	Samsung	18-20-20-44	1.35V	•	
TEAMGROUP	TF2D416G3600HC18EDC01	16GB(8GB*2)	SS	Samsung	18-20-20-44	1.35V	•	
TEAMGROUP	TF5D416G3600HC18EDC01	16GB(8GB*2)	SS	Samsung	18-20-20-44	1.35V	•	
TEAMGROUP	TF6D416G3600HC18EDC01	16GB(8GB*2)	SS	Samsung	18-20-20-44	1.35V	•	

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 3866 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3866C18D-16GTZ	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	•	
G.SKILL	F4-3866C18D-16GTZSW	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	•	
G.SKILL	F4-3866C18D-16GTZKW	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	•	
G.SKILL	F4-3866C18D-16GTZR	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	•	
A-DATA	AX4U386638G18-QRS	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	•	

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 4000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-4000C18D-16GTZ	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	●	
G.SKILL	F4-4000C18D-16GTZSW	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	●	
G.SKILL	F4-4000C18D-16GTZKW	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	●	
G.SKILL	F4-4000C18D-16GTZR	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	●	
G.SKILL	F4-4000C17D-16GTZR	16GB(8GB*2)	SS	Samsung		17-17-17-37	1.35V	●	
G.SKILL	F4-4000C17D-16GTZRS	16GB(8GB*2)	SS	Samsung		17-17-17-37	1.35V	●	
G.SKILL	F4-4000C17D-16GTZRG	16GB(8GB*2)	SS	Samsung		17-17-17-37	1.35V	●	
CORSAIR	CMR16GX4M2F4000C19 ver4.31	16GB(8GB*2)	SS	Samsung		19-23-23-45	1.35V	●	
CORSAIR	CMK16GX4M2K4000C19 ver3.31	16GB(8GB*2)	SS	Spectek		19-23-23-45	1.35V	●	
CORSAIR	CMK16GX4M2K4000C19 ver4.31	16GB(8GB*2)	SS	Samsung		19-23-23-45	1.35V	●	
CORSAIR	CMW16GX4M2Z4000C18 ver3.31	16GB(8GB*2)	SS	Spectek		18-22-22-42	1.35V	●	
CORSAIR	CMK32GX4M4K4000C19 ver3.31	32GB(8GB*4)	SS	Spectek		19-23-23-45	1.35V	●	●
Hyper X	HX440C19PB3K2/16	16GB(8GB*2)	SS	Samsung		19-21-21-42	1.35V	●	
Hyper X	HX440C19PB3AK2/16	16GB(8GB*2)	SS	Samsung		19-21-21-42	1.35V	●	
A-DATA	AX4U400038G18-QRS	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.35V	●	
CRUCIAL	BLE8G4D40BEEAK.M8FE1	8GB	SS	Micron		18-19-19-39	1.35V	●	●
TEAMGROUP	TXKD416G4000HC18EDC01	16GB(8GB*2)	SS	Samsung		18-20-20-44	1.35V	●	
TEAMGROUP	TF6D416G4000HC18EDC01	16GB(8GB*2)	SS	Samsung		18-20-20-44	1.35V	●	

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 4133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Options)	
								2 DIMM	4 DIMM
G.SKILL	F4-4133C19D-16GTZC	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.35V	•	
G.SKILL	F4-4133C19D-16GTZSWC	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.35V	•	
G.SKILL	F4-4133C19D-16GTZKWC	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.35V	•	
G.SKILL	F4-4133C19D-16GTZR	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.35V	•	
G.SKILL	F4-4133C17D-16GTZR	16GB(8GB*2)	SS	Samsung		17-17-17-37	1.35V	•	
CORSAIR	CMK16GX4M2K4133C19 ver4.31	16GB(8GB*2)	SS	Samsung		19-25-25-45	1.35V	•	
Hyper X	HX441C19PB3K2/16	16GB(8GB*2)	SS	Samsung		19-23-23-45	1.35V	•	
GEIL	GLS416GB4133C19DC	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 4266 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Options)	
								2 DIMM	4 DIMM
G.SKILL	F4-4266C19D-16GTZA	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
G.SKILL	F4-4266C19D-16GTZSW	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
G.SKILL	F4-4266C19D-16GTZKW	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
G.SKILL	F4-4266C19D-16GTZR	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
G.SKILL	F4-4266C19D-16GTZRS	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
G.SKILL	F4-4266C19D-16GTZRG	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
CORSAIR	CMK16GX4M2K4266C19 ver4.31	16GB(8GB*2)	SS	Samsung		19-26-26-46	1.4V	•	
Hyper X	HX442C19PB3K2/16	16GB(8GB*2)	SS	Samsung		19-21-21-42	1.4V	•	

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 4333 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Options)	
								2 DIMM	4 DIMM
CORSAIR	CMK16GX4M2K4333C19 ver4.31	16GB(8GB*2)	SS	Samsung		19-26-26-46	1.4V	•	

ROG STRIX X470-I GAMING/ROG STRIX B450-I GAMING

DDR4 4400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Options)	
								2 DIMM	4 DIMM
G.SKILL	F4-4400C19D-16GTZSW	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
G.SKILL	F4-4400C19D-16GTZSKK	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	
G.SKILL	F4-4400C18D-16GTZRS	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.4V	•	
G.SKILL	F4-4400C18D-16GTZRG	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.4V	•	
G.SKILL	F4-4400C18D-16GTZR	16GB(8GB*2)	SS	Samsung		18-19-19-39	1.4V	•	
CORSAIR	CMK16GX4M2K4400C19 ver4.31	16GB(8GB*2)	SS	Samsung		19-19-19-39	1.4V	•	