



# 안전확인신고 증명서 Confirmation Letter of Declaration

신고번호 : YU10168-19007E  
(Application No.)

신고회사명 : TECH-FRONT (CHONGQING) COMPUTER CO LTD  
(Applicant)

주소 : 18 ZONGBAO RD SHAPINGBA DISTRICT CHONGQING CHINA  
(Address)

제품명 : 노트북컴퓨터  
(Product) Notebook Computer

기본모델명 : X421F  
(Basic Model)

파생모델명 : 불임참조(Attached)  
(Series Model)

정격/안전기준상의모델구분 : 19 Vd.c., 2.37 A or 3.42 A  
(Rating)

안전기준 : K60950-1(2011-12)  
(Standard)

본 확인신고는 제조국명 : 중국  
제조업자명 : TECH-FRONT (CHONGQING) COMPUTER CO LTD의 제품에만 해당함  
제조공장의 주소 : 18 ZONGBAO RD SHAPINGBA DISTRICT CHONGQING CHINA

「전기용품 및 생활용품 안전관리법 시행규칙」 제28조제1항, 같은 조 제3항, 제29조제2항 또는 제34조제2항에 따라 안전확인신고 증명서를 발급합니다.

We issue this Confirmation Letter of Declaration of the Safety Confirmation for the above appliances in accordance with Article 28(1), 28(3), 29(2) or 34(2) of the Electrical Appliances and Consumer Products Safety Control Act.

2020년 08월 13일  
year month day

**KTR** 한국화학융합시험연구원  
KOREA TESTING & RESEARCH INSTITUTE



※ 이 신고증명서는 「전기용품 및 생활용품 안전관리법」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)(전기용품에 한정한다)
	2. 기본모델·파생모델의 내용(Description of the basic and series model)
	3. 안전확인신고 내용의 변경 현황(Revisions Status)



신고번호(Application No.) : YU10168-19007E

[붙임(Attachment)]

K433F,S433F,V433F,F413F,A413F,R428F,X413F,S413F,K413F,V413F,X413J  
,F413J,A413J,K413J,S413J,V413J,R438F,R438J,A415F,A415J,R438E,X413E,  
F413E,A413E,A415E,K413E,S413E,V413E,K433E,S433E,V433E

## 신고번호(Application No.) : YU10168-19007E

[붙임 1 : 전기용품의 안전관리부품 및 재질목록] [Attachment 1 : List of Critical Components]				
부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
AC/DC adapter	Delta Electronics (Jiang Su) Ltd.	ADP-65GD D	100-240 V~, 50-60 Hz, 1.5 A, (O/P: 19 Vd.c., 3.42 A)	KC
Alt.	Bao Hui Science & Technology Co., Ltd.	AD10280	100-240 V~, 50/60 Hz, 1.0 A, (O/P: 19 Vd.c., 2.37 A)	KC
Alt.	Delta Electronics (Jiang Su) Ltd.	ADP-45ZE B	100-240 V~, 50-60 Hz, 1.2 A, (O/P: 19 Vd.c., 2.37 A)	KC
Alt.	Bao Hui Science & Technology Co., Ltd.	AD10500	100-240 V~, 50/60 Hz, 1.5 A (O/P: 19 Vd.c., 3.42 A)	KC
Li-ion battery pack	Simplo Technology (Chongqing) Inc.	C31N1905	11.55 Vd.c., 4 210 mAh	KC
Alt.	Dynapack Electronic Technology (Suzhou) Co., Ltd.	C31N1905	11.55 Vd.c., 4 210 mAh	KC
Alt.	Celxpert (Kunshan) Energy Co., Ltd.	B31N1911	11.55 Vd.c., 3 350 mAh	KC
Alt.	Celxpert (Kunshan) Energy Co., Ltd.	C31N1911	11.55 Vd.c., 3 550 mAh	KC
Enclosure for LCD cover, Top side around keyboard and Bottom case	Interchangeable	Interchangeable	Aluminium alloy, thickness 0.8 mm min.	-
Alt.	TEJIN LIMITED RESIN AND PLASTIC	TN-3715B(n1) (n1) - May be suffixed with any letters except D and Z.	V-1, thickness 1.0 mm min., 60 °C	-
Alt.	TEJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-3715B(n1) (n1) - May be suffixed with any letters except Z.	V-1, thickness 1.0 mm min., 60 °C	-
Enclosure for LCD bezel	TEJIN LIMITED RESIN AND PLASTIC	TN-7050(#) (#) - Suffix optional	V-1, thickness min. 0.8 mm, 60 °C	-
Alt.	TEJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-7050(#) (#) - Suffix optional	V-1, thickness min. 0.8 mm, 60 °C	-
Alt.	TEJIN LIMITED RESIN AND PLASTIC	TN-7000(v) (v) - May be suffixed with any one or two letters except F and T.	Thickness 0.6mm min., 60 °C (Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)	-

## 신고번호(Application No.) : YU10168-19007E

[붙임 1 : 전기용품의 안전관리부품 및 재질목록] [Attachment 1 : List of Critical Components]				
부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-7000(v) (v) - May be suffixed with any one or two letters except F and T.	Thickness 0.6mm min., 60 °C( Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)	-
Enclosure for rear side cover frame and plastic frame inside bottom case	TEIJIN LIMITED RESIN AND PLASTIC	TN-3715B(n1) ( n1) - May be suffixed with any letters except D and Z.	V-1, thickness min. 1.0 mm, 60 °C	-
Alt.	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-3715B(n1) ( n1) - May be suffixed with any letters except Z.	V-1, thickness min. 1.0 mm, 60 °C	-
Enclosure for Hinge clip	TEIJIN LIMITED RESIN AND PLASTIC	TN-3715B(n1) ( n1) - May be suffixed with any letters except D and Z.	Thickness 0.9mm min., 60 °C( Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)	-
Alt.	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-3715B(n1) ( n1) - May be suffixed with any letters except Z.	Thickness 0.9mm min., 60 °C( Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)	-
LCD Panel	BOE	NT140FHM-N44 V8.0	14.4 inch, TFT type (LED Backlight)	-
Alt.	Interchangeable	Interchangeable	14.4 inch, TFT type (LED Backlight)	-
DC Fan	ASIA VITAL COMPONENTS CO., LTD.	BAPA1005R5HY0 01	5 Vd.c., 0.5 A	-
Alt.	Delta	NS85C45XXXXXX XXXXXX stands for A-Z, 0-9, - or blank for marketing purpose only	5 Vd.c., 0.5 A	-
Motherboard	ASUSTek Computer Inc	X421FL MAIN BOARD	-	-
Alt.	ASUSTek Computer Inc	X421FAY MAINBOARD	-	-
Alt.	ASUSTek Computer Inc	X421JA MAIN BOARD	-	-
Alt.	ASUSTek Computer Inc	X421EAY MAIN BOARD	-	-
Alt.	ASUSTek Computer Inc	X421EA MAIN BOARD	-	-

## 신고번호(Application No.) : YU10168-19007E

[붙임 1 : 전기용품의 안전관리부품 및 재질목록] [Attachment 1 : List of Critical Components]				
부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
PCB	Interchangeable	Interchangeable	Min. V-1, 105 °C min.	-
<p>※ 주의사항(Attention)</p> <p>1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장 검사시 확인 및 관리하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경 신청을 하여야 합니다. (As the critical components and parts are directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying for multiple listings or changes for the items above, the certification revision shall be applied.)</p> <p>2. 인증변경신청 없이 임의로 변경하는 경우는 전기용품 및 생활용품 안전관리법 제11조 및 제20조 제1항의 규정에 의한 안전인증 취소사유가 됨을 유의하시기 바랍니다. (The safety certification will be cancelled under the Electrical Appliances and Consumer Products Safety Control Act, Clause 1 of Article 11 and 20 if the contents of the certification are altered without prior authorization.)</p>				

## 신고번호(Application No.) : YU10168-19007E

[붙임 2 : 기본모델 · 파생모델의 내용]

[Attachment 2 : General Description of Certified Products]

파생모델명 (Series model(s))	기본모델과의 차이점 (Difference between the basic and variant models)	비고 (Remarks)
K433F	o Different model name from basic model	
S433F	o Different model name from basic model	
V433F	o Different model name from basic model	
F413F	o Different model name from basic model	
A413F	o Different model name from basic model	
R428F	o Different model name from basic model	
X413F	o Different model name from basic model	
S413F	o Different model name from basic model	
K413F	o Different model name from basic model	
V413F	o Different model name from basic model	
X413J	o Different model name from basic model	
F413J	o Different model name from basic model	
A413J	o Different model name from basic model	
K413J	o Different model name from basic model	
S413J	o Different model name from basic model	
V413J	o Different model name from basic model	
R438F	o Different model name from basic model	
R438J	o Different model name from basic model	
A415F	o Different model name from basic model	
A415J	o Different model name from basic model	
R438E	o Different model name from basic model	
X413E	o Different model name from basic model	
F413E	o Different model name from basic model	
A413E	o Different model name from basic model	
A415E	o Different model name from basic model	
K413E	o Different model name from basic model	
S413E	o Different model name from basic model	
V413E	o Different model name from basic model	
K433E	o Different model name from basic model	

## 신고번호(Application No.) : YU10168-19007E

[붙임 2 : 기본모델 · 파생모델의 내용] [Attachment 2 : General Description of Certified Products]		
파생모델명 (Series model(s))	기본모델과의 차이점 (Difference between the basic and variant models)	비고 (Remarks)
S433E	o Different model name from basic model	
V433E	o Different model name from basic model	

## 신고번호(Application No.) : YU10168-19007E

[붙임 2 : 기본모델 · 파생모델의 내용]

[Attachment 2 : General Description of Certified Products]

### 제품 및 시험특기사항 (Features and Specifications)

o Characteristics

- This appliance is a Notebook computer

o Specifications

- Rating : 19 Vd.c., 2.37 A or 3.42 A
- Rating time : Continuous
- Protection grade against electric shock : Class III
- Portable appliance
- IP Grade : IPX0
- Appliance weight : 1.41 Kg

※ 본 제품의 시험내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하여 주시기 바랍니다.

시험담당자 연락처 : Tel : 02-2164-1426 Fax : 02-507-8397

(If you have any questions on product testing contents, please contact the following : Tel : 82-2-2164-1426 Fax : 82-2-507-8397)



## 신고번호(Application No.) : YU10168-19007E

[붙임 3 : 전기용품 안전인증(안전확인신고) 변경 현황]  
[Attachment 3 : Revisions Status]

일자 (Date)	내용 (Content of revision)	비고 (Reference)
2019. 11. 21	o Date of Initial Issue	
2020. 02. 04	<p>o Series models are added (F413F, A413F, R428F, X413F)</p> <p>o Components are added</p> <p>1. Li-ion battery pack (Alt.) - Manufacturer : Celxpert (Kunshan) Energy Co., Ltd. - Model : B31N1911 - Rating : 11.55 Vd.c., 3 350 mAh - Mark : KC</p> <p>2. Enclosure for LCD cover, Top side around keyboard and Bottom case (Alt.) - Manufacturer : TEIJIN LIMITED RESIN AND PLASTIC - Model : TN-3715B(n1) (n1) - May be suffixed with any letters except D and Z. - Rating : V-1, thickness 1.0 mm min., 60 °C</p> <p>3. Enclosure for LCD cover, Top side around keyboard and Bottom case (Alt.) - Manufacturer : TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD - Model : TN-3715B(n1) (n1) - May be suffixed with any letters except Z. - Rating : V-1, thickness 1.0 mm min., 60 °C</p> <p>4. Enclosure for LCD bezel (Alt.) - Manufacturer : TEIJIN LIMITED RESIN AND PLASTIC - Model : TN-7000(v) (v) - May be suffixed with any one or two letters except F and T. - Rating : Thickness 0.6mm min., 60 °C(Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)</p> <p>5. Enclosure for LCD bezel (Alt.) - Manufacturer : TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD - Model : TN-7000(v) (v) - May be suffixed with any one or two letters except F and T. - Rating : Thickness 0.6mm min., 60 °C(Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)</p> <p>6. Enclosure for Hinge clip - Manufacturer : TEIJIN LIMITED RESIN AND PLASTIC - Model : TN-3715B(n1) (n1) - May be suffixed with any letters except D and Z. - Rating : Thickness 0.9mm min., 60 °C(Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)</p> <p>7. Enclosure for Hinge clip (Alt.) - Manufacturer : TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD - Model : TN-3715B(n1) (n1) - May be suffixed with any letters except Z.</p>	

## 신고번호(Application No.) : YU10168-19007E

[붙임 3 : 전기용품 안전인증(안전확인신고) 변경 현황]  
[Attachment 3 : Revisions Status]

일자 (Date)	내용 (Content of revision)	비고 (Reference)
	<ul style="list-style-type: none"> <li>- Rating : Thickness 0.9mm min., 60 °C(Comply with Flammability test of IEC60950-1 Clause A.2, equivalent to considered the requirement of clause 4.7.3.2)</li> <li>8. DC Fan (Alt.)               <ul style="list-style-type: none"> <li>- Manufacturer : Delta</li> <li>- Model : NS85C45XXXXXXXXXXXXX stands for A-Z, 0-9, or blank for marketing purpose only</li> <li>- Rating : 5 Vd.c., 0.5 A</li> </ul> </li> <li>9. Motherboard (Alt.)               <ul style="list-style-type: none"> <li>- Manufacturer : ASUSTek Computer Inc</li> <li>- Model : X421FAY MAINBOARD</li> </ul> </li> </ul>	
2020. 03. 04	<ul style="list-style-type: none"> <li>o Series models are added (S413F, K413F, V413F)</li> <li>o Components are added               <ol style="list-style-type: none"> <li>1. Li-ion battery pack (Alt.)                   <ul style="list-style-type: none"> <li>- Manufacturer : Celxpert (Kunshan) Energy Co., Ltd.</li> <li>- Model : C31N1911</li> <li>- Rating : 11.55 Vd.c., 3 550 mAh</li> <li>- Mark : KC</li> </ul> </li> <li>2. AC/DC Adapter (Alt.)                   <ul style="list-style-type: none"> <li>- Manufacturer : Bao Hui Science &amp; Technology Co., Ltd.</li> <li>- Model : AD10500</li> <li>- Rating : 100-240 V~, 50/60 Hz, 1.5 A (O/P: 19 Vd.c., 3.42 A)</li> <li>- Mark : KC</li> </ul> </li> </ol> </li> </ul>	
2020. 04. 20	<ul style="list-style-type: none"> <li>o Applicant is changed               <ul style="list-style-type: none"> <li>· Before                   <ul style="list-style-type: none"> <li>- Applicant : (주)에이수스코리아(ASUS Korea Co., Ltd.)</li> <li>- Address : 서울특별시 용산구 원효로 138(원효로 3가, 청진빌딩 306호)</li> </ul> </li> </ul> </li> </ul>	
2020. 05. 13	<ul style="list-style-type: none"> <li>o Series models are added (X413J, F413J, A413J, K413J, S413J, V413J, R438F, R438J, A415F, A415J)</li> <li>o Component is added               <ol style="list-style-type: none"> <li>1. Motherboard (Alt.)                   <ul style="list-style-type: none"> <li>- Manufacturer : ASUSTek Computer Inc</li> <li>- Model : X421JA MAIN BOARD</li> </ul> </li> </ol> </li> </ul>	
2020. 08. 13	<ul style="list-style-type: none"> <li>o Series models are added (R438E, X413E, F413E, A413E, A415E, K413E, S413E, V413E, K433E, S433E, V433E)</li> <li>o Components are added               <ol style="list-style-type: none"> <li>1. Motherboard (Alt.)                   <ul style="list-style-type: none"> <li>- Manufacturer : ASUSTek Computer Inc</li> <li>- Model : X421EAY MAIN BOARD</li> </ul> </li> <li>2. Motherboard (Alt.)                   <ul style="list-style-type: none"> <li>- Manufacturer : ASUSTek Computer Inc</li> <li>- Model : X421EA MAIN BOARD</li> </ul> </li> </ol> </li> </ul>	