SPC-618WE

18.5" FHD TFT LED LCD Touch Panel **Computer with Intel® Raptor Lake-U Platform with IECEx/ATEX and Class I Division II Explosion-Proof certification**



Features

- Industrial-grade 18.5" FHD TFT LCD with 50K lifetime and LED backlight
- 13th Gen. Intel[®] Core™ i7-1365URE deca-core processor .
- Built in single DDR5 4800 RAM with 32GB capacity
- Built in sTLC SSD of 256GB with extreme longevity and reliability
- Compact, fanless embedded system with aluminum alloy front bezel and chassis grounding protection
- Specialized enhanced impact proof touchscreen with PCAP touch control and IP66-rated front panel
- Support TPM2.0 hardware security
- IECEx/ATEX explosion proof certification for Zone 2/22
- Class I Division II explosion proof certification

Introduction

Advantech's SPC-618WE Explosion-Protected Touch panel computer, is powered by Intel Raptor Lake-U Intel Core processors. With its fan-less design. SPC-618WE delivers high performance that not simply meets customer demands for a daily-operation control panel, but a genuine Industry 4.0-era-tailored Industrial PC that features bountiful I/Os including two USB 3.2 ports, one USB Type-C port, expansions with sTLC Solid State Drive and WiFi module that support for ultra speed data transmission. The system was both IP66 and IEC Ex/IECEx/ATEX and Class I Division Explosion-Protected certified, therefore is suitable for hazardous environment.

Specifications

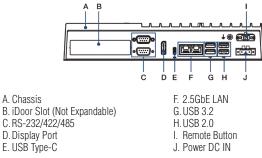
Conoral

General		LCD Display	
BIOSCertification	AMI UEFI BSMI, CCC, CE, FCC Class A, IECEx/ATEX Zone 2/22 explosion proof certification Class I Division II explosion proof certification	 Display Type Display Size Max. Resoltuion Max Colour 	FHD TFT LED LCD 18.5" 1920 x 1080 16.7M
 Cooling System 	Fanless design	Luminance cd/m ²	350 cd/m ²
 Dimensions (W x H x D) Enclosure 	479.3 x 300.3 x 80 mm Front bezel: Die cast aluminum alloy Back housing: Die cast aluminum alloy	 Viewing Angle (H/V°) Backlight Life Contrast Ratio 	178°/178° 50,000 hrs 1000:1
 Mounting OS Support Security Power Consumption Power Input 	Panel Mount Windows 11 LTSC TPM 2.0 (built-in) Typ. 46W; Max. 82W 19 - 24 V _{PC} ± 15%	Touchscreen Light Transmission Resolution Type	Above 85% Linearity PCAP touch screen
 Watchdog Timer Weight (Net) 	15-255 sec (system) 6KG	Environment • Humidity	95% RH @ 40°C, non-condensing
System Hardware CPU Memory	13th Gen. Intel [®] Core™ i7-1365URE 1.7 GHz Deca-core processor Single DDR5 4800 SO-DIMM RAM 32GB	 Ingress Protection Operating Temperature Storage Temperature Vibration Protection 	IP65-rated front panel -20-60 °C (-4-140 °F) (w/o air flow) -30-70 °C (-22-158 °F) With SSD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)
 LAN Storage 	2 x 2.5 GbE with Intel® i226 1x M.2 2280 STLC Solid State Drive 256 GB (Baseline) STLC Solid State Drive 512 GB (Option for custom model*) 1 x 2.5 SATA STLC Solid State Drive 256 GB (Option for custom model*) STLC Solid State Drive 512 GB (Option for custom model*)	Rear View	

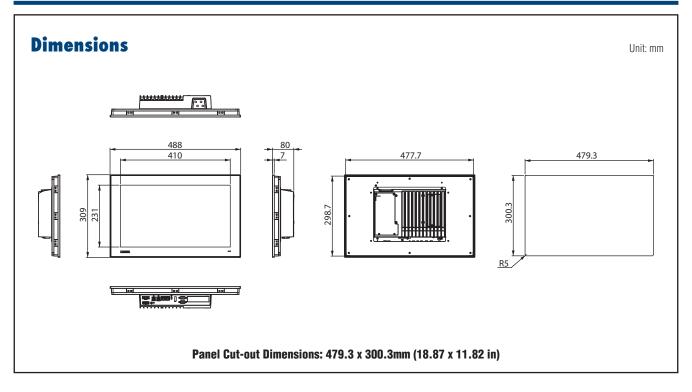
*Detailed information listed in "Expansion Component for Custom Model"

1 x Displayport 1.4a (Video output) I/0

- 1 x USB Type-C (USB 3.2 Gen.2, DP 1.4a, 5V w/ 3A max) 2 x USB 3.2 (Gen.1)
- 2 x USB 2.0
- 2 x RS-232/422/485
- (Optional) 2 x 4 Ω Speaker for Audio out



SPC-618WE



Ordering Information

- SPC-618WE-PUD75A
- 18.5" FHD Panel PC, ATEX Explosion-Protected certification, 13th Gen. Intel® i7-1365URE 1.7 GHz Deca-core processor

Optional Accessories

- 96PSA-A150W24T2-4 150W 24V_{DC} power supply
- **1702002600**
- Power cable (US) 1.8 M • 1702002605 Power cable (EU) 1.8 M
- **1702031801** Power cable (UK) 1.8 M
- 1700000596-11 Power cable (China/Australia) 1.8 M

Embedded OS

20701WLH1S0004 Win11 LTSC for SPC-618WE

Explosion Proof Certification



II 3 G Ex ec IIC T4 Gc II 3 D Ex tc IIIC T76°C Dc UL 24 ATEX 3284X IECEx UL 24.0074X -20°C ≤ Ta ≤ +60°C

Class I,Division 2. Group A,B,C and D Temp.Code T4 Ambient -20°C to +60°C ŲĽ us LISTED E322252

Expansion Component for Custom Model

Explosion Proof Certified Expansion Components		Description
M.2 2280 SSD (Baseline)	SQF-S8BZ4-256GDSDE	SQF M.2 2280 SSD 256GB 3D sTLC
Option1	SQF-S8BZ4-512GDSDE	SQF M.2 2280 SSD 512GB 3D sTLC
2.5" SATA SSD (Baseline)	None	None
Option1	SQF-S25Z4-256GDSDE	SQF 2.5" SATA SSD 256GB 3D sTLC
Option2	SQF-S25Z4-512GDSDE	SQF 2.5" SATA SSD 512GB 3D sTLC

Packing List

Item	Part No.	Description	Qty	
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1	
Power Connector	1652007930-01	Plug-In Block 1x3P/5.08mm/PA66/F/VA	1	
Warranty	2190000902	CARDBOARD-WARRANTY REV. A2	1	
VESA Screw	1930005204	Screw M4x10L R/S DH=6.8x2.50 + ST ZBK PL	4	
China RoHS	202KAKMC00	China rohs for AKMC model name 1st ed	1	