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 IECEx/ATEX and Class I Division Explosion-Protected certified, therefore is suitable for hazardous environment.

Specifications

Conoral

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

*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

DE A. Chassis F. 2.5GbE LAN B. iDoor Slot (Not Expandable) C.RS-232/422/485 D. Display Port E. USB Type-C

G. USB 3.2 H. USB 2.0 I. Remote Button

F

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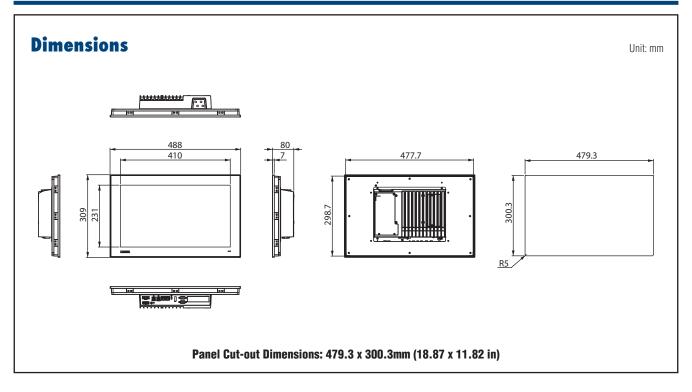
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1

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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	