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

+0 (alia)

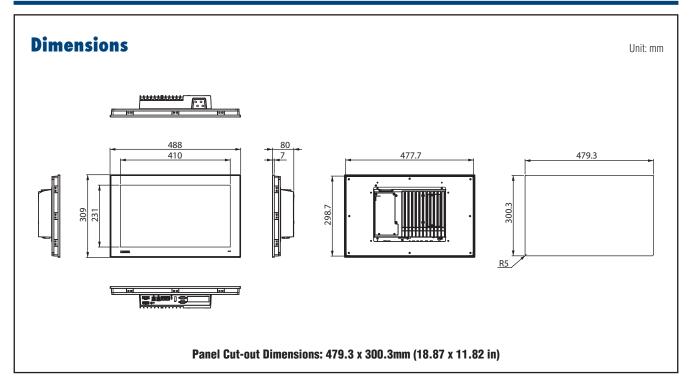
G H

J. Power DC IN

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<sub>DC</sub> 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	