

# **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**

## General

BIOS AMI UEFI

 Certification BSMI, CCC, CE, FCC Class A

IECEx/ATEX Zone 2/22 explosion proof certification Class I Division II explosion proof certification

Cooling System Fanless design

Dimensions (W x H x D) 479.3 x 300.3 x 80 mm

Enclosure Front bezel: Die cast aluminum alloy

Back housing: Die cast aluminum alloy

Mounting Panel Mount OS Support Windows 11 LTSC TPM 2.0 (built-in) Security **Power Consumption** Typ. 46W; Max. 82W

Power Input  $19 - 24 V_{DC} \pm 15\%$ Watchdog Timer 15-255 sec (system)

Weight (Net) 6KG

#### **System Hardware**

CPU 13th Gen. Intel® Core™ i7-1365URE 1.7 GHz

Deca-core processor

Single DDR5 4800 SO-DIMM RAM 32GB Memory

2 x 2.5 GbE with Intel® i226 LAN

1x M.2 2280 Storage

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\*)

\*Detailed information listed in "Expansion Component for Custom Model" I/0

1 x Displayport 1.4a (Video output)

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

### **LCD** Display

**Display Type** FHD TFT LED LCD **Display Size** 18.5" Max. Resoltuion 1920 x 1080 Max Colour 16.7M Luminance cd/m<sup>2</sup> 350 cd/m<sup>2</sup> Viewing Angle (H/V°) 178°/178°

Backlight Life 50.000 hrs **Contrast Ratio** 1000:1

## **Touchscreen**

**Light Transmission** Above 85% Resolution Linearity

PCAP touch screen Type

#### **Environment**

Humidity 95% RH @ 40°C, non-condensing

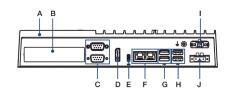
Ingress Protection IP65-rated front panel

-20~60 °C (-4~140 °F) (w/o air flow) **Operating Temperature** 

Storage Temperature -30~70 °C (-22~158 °F)

Vibration Protection With SSD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)

## **Rear View**



A. Chassis

B. iDoor Slot (Not Expandable)

C.RS-232/422/485

D. Display Port

E. USB Type-C

F. 2.5GbE LAN

G. USB 3.2 H. USB 2.0

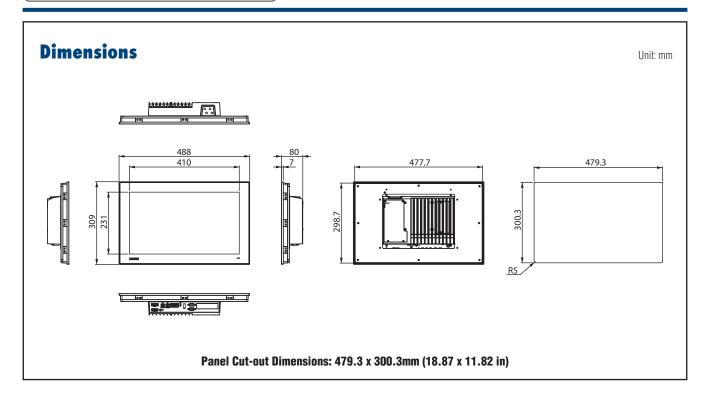
I. Remote Button

J. Power DC IN



Zapraszamy do kontaktu! Więcej informacji: <u>www.kreski.pl</u>

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
1702002600
1702002605
1702031801
150W 24V<sub>DC</sub> power supply
Power cable (US) 1.8 M
Power cable (EU) 1.8 M
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

# **Expansion Component for Custom Model**

Explosion P	oof 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

Please contact Advantech for certificate compliance.