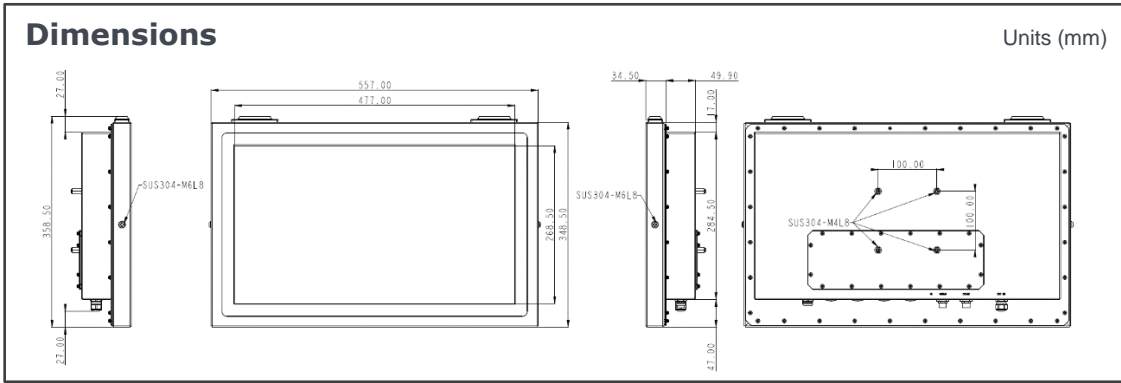# WTPE-9E66-22W

Explosion Proof Panel PC

Features

- Class 1 Division 2, ATEX Zone 2, IECEx & EMC Class B Certified
- Intel® 6th Gen. Core i7/i5/i3 Processor
- 21.5" Fanless Panel PC for Wide Temp -10~55°C Environments
- LAN USB COM M16 (EX Ec) I.O. Up to 4 & Waterproof M12 USB COM (EX ic) I.S. Output
- Connector Panel for Easy Cable Installation
- Totally Sealed IP66 / NEMA 4X Enclosure
- 100% Water/Dust Proof Guarantee

Specification

Product		WTPE-9E66-22W		
Main System	CPU	FCBGA1356 6th generation Intel® Core i7/i5/i3 processor 15W max.		
	Graphic	Intel® integrated HD Graphics 520		
	Memory	Two 2133 MHz DDR4 SODIMM socket support dual Channel, non-ECC, up to 32GB		
	OS Support (Optional)	Win10 Embedded 64-bit / Windows 10 Professional 64-bit		
Display	Size	21.5" 16:9		
	Resolution (pixel)	1920 x 1080 (FHD)		
	Number of Colors	16.7M colors (RGB 6-bit + Hi FRC)		
	View Angle (H/V)	178(H) / 178(V)		
	Brightness(cd/m², nit)	300 nits		
	Contrast Ratio	5000 : 1 (Typ)		
Touch Panel	Type	Full flat resistive touch panel		
	Light Transmission	80 ± 5%		
	Hardness / Lifetime	4H / 490,000 hours		
Storage & Expansion	Storage	2.5" SATA SSD		
	Expansion	Mini PCIe x 1 M.2 Type E x 1		
I/O Ports/ Power	**Configuration**	**A**	**B/C***	**D**
	Swappable M12, 8pin (I.S. Output, Support EX ic, Extension Cable to Ex ic Devices)	**COM X 2 for RS232**	**USB2.0 X 1 COM X 1 for RS232**	**USB2.0 X 2**
	Cable Gland M16 (Max. Output x 4, Must be Installed by User)	**USB 2.0 X 2 (EX ec)** **LAN X 2 (EX ec, i219LM for Vpro)** **COM X 1 for RS232/422/485 (EX ec)** **Optional Mini-PICe Module for Cable Connection X 1 (EX ec)**		
	Power Adapter	100W with 24V DC output, with 1.2M cable, PSE		
	Power / Consumption	DC 24V Input, M16 (EX ec, Must Be Installed by User) / 54.2 Watts		
Environmental	Temperature	Operating Temperature -20 ~ 60 ℃, without freezing (IEC60068-2-56, air flow cooling) Storage Temperature -20 ~ 60℃		
	Humidity	Operating & Storage: -10 ~ 90%, non-condensing		
	Water/Dust resistance	IP66 / NEMA4X		
Mechanical Characteristics	Housing	Stainless steel (SUS304), Chassis Type		
	Dimensions (Net: mm)	557 x 348.5 x 84.5		
	Weights (Net: kg)	13 kg		
	Mounting	VESA (100x100 mm x mm), side mount (M6*2)		
Certification		EMC: FCC, CE (EMC), VCCI Class B, Canada ICES-003, Safety: IEC-62368 CCC, IECEx, Class 1 Division 2 Group A, B, C, D T5 (Config. A Ready, B/C, D Compliance) ATEX Zone2 EX II 3G Ex ic ec IIC T4 Gc IP66		

*Remark: Configuration B/C is defined/verified as different interface combination connected in certificate report.
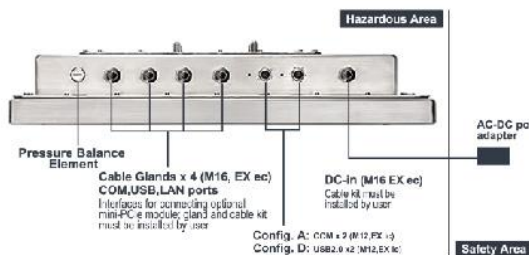
WTPE-9E66-22W   Explosion Proof Panel PC

Dimensions

Units (mm)

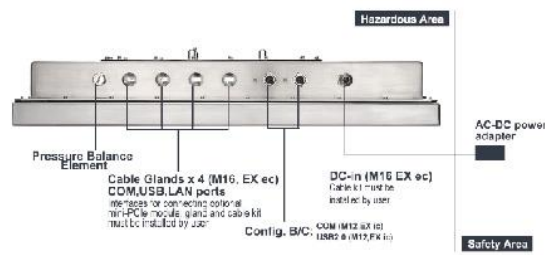| Major Options	
Options	① Wifi、IEEE802.11ac/b/g/n, Bluetooth Class1.0、2.0 (included in explosion proof certification, not co-existed with other mini-PCIe module)
Accessory	①COM extension cable kit through M16 cable gland (2 meter length, external 9pin male type) (cable kit must be installed by user) ②USB2.0 extension cable through M16 cable gland (2 meter length, external female type A) (cable kit must be installed by user) ③LAN extension cable through M16 cable gland (2 meter length, external female RJ45 type) (cable kit must be installed by user) ④Swappable M12 COM extension cable (2 meter length, M12 to PPC, external 9pin male type) (for configuration A,B/C) ⑤Swappable M12 USB2.0 port extension cable (0.3 meter length, M12 to PPC, external female type A connectors) (for configuration B/C, D) ⑥Swappable M12 DC power extension cable (1.2 meter length, M12, stripped and tinned wires on opposite end to DC 24V output power supply)
Customization	①Kit to support over 100 meter power supply length, ②Power on/off switch ③EtherNet/ IP (Industrial Protocol) Interface (temperature code condition is T4, not co-existed with other mini-PCIe module) ④PROFIBUS DP (process field bus decentralized peripherals)-slave Network Interface (temperature code condition is T4, not co-existed with other mini-PCIe module) ⑤DeviceNet-slave Interface (temperature code condition is T4, not co-existed with other mini-PCIe module) ⑥CC-Link (control & communication link)-slave interface (temperature code condition is T4, not co-existed with other mini-PCIe module) ⑦Panel mounting by bezel kit (not co-exist with wireless function) ⑧50 meter DC cable to support 50 meter power length ⑨100 meter DC cable to support 100 meter power length ⑩Wall mount/ Table mount bracket

Order Information

Item	Cooling	Description
WTPE-9E66-22W	Fanless	21.5" Core i5-6200U / DDR4 4G RAM/ 128G SSD/ Full flat R-touch

Configuration A,D   Configuration B/C

Entity parameters A		
COM1: Uo = 10.0 V, Io = 38.9 mA, Po = 389 mW, Co = 2.8μF, Lo = 52.867 mH		
COM2: Uo = 9.0 V, Io = 31.6 mA, Po = 284 mW, Co = 0.3μF, Lo = 80.115 mH		

Entity parameters D
USB: Uo = 5.5 V, Io = 151.2 mA, Po = 0.8316 W, Co = 1000μF, Lo = 3.499 mH

Entity parameters B/C	
COM: Uo = 9.0 V, Io = 31.6 mA, Po = 284 mW, Co = 0.3 μF, Lo = 80.115 mH	
USB: Uo = 5.5 V, Io = 151.2 mA, Po = 0.8316 W, Co = 1000 μF, Lo = 3.499 mH	