



Rugged Panel PC

VisuNet XT PC9719

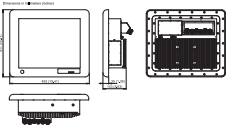
- Windows® 10 IoT Enterprise x64
- 1000 cd/m² (nits) high-bright LCD
- User configurable function keys
- Front brightness control and touchscreen disable
- Intel® Core™ 2.1 GHz quad-core i7 processor
- Field maintainable
- ATEX/IEC-EX Zone 2, Class I/Div 2, Class I/Zone 2



Application

The VisuNet XT brings new meaning to the concept of rugged PC. It's a completely enclosed HMI that outperforms the abysmal conditions aboard open sea and land drilling rigs. Its extended operating range, -40°C ... +65°C makes it well suited for oil exploration and extraction. The VisuNet XT is a Zone 2/Div. 2 operator workstation, featuring an Intel Core i7 quad-core processor and flexibility for a variety of network topologies including: redundant LAN ports and multi-mode fiber optic LAN connection. Featuring a high-bright, LED backlit LCD panel for high performance as well as hardened resistive touch screen for continuous use in the harshest environments. Mounting options include yoke mount, VESA mount (100 mm), or panel mount.

Dimensions



Technical Data

Hardware	
Processor	Intel® Core™ i7-2710QE 2.1 GHz
RAM	8 GB RAM
Mass storage	120 GB SSD
Supply	
Power consumption	max. 120 W , 18-30 VDC, 100-240 VAC 50-60 Hz
Indicators/operating means	
Display	
Screen diagonal	19 inch (48.3 cm)
Response time	15 ms
Resolution	1280 x 1024
Color depth	24 bit (16.7 M) color
Contrast	600:1
Brightness	1000 cd/m ² (nits)
Reading angle	160° in all directions
Life span	LED back lamp life: 70,000 hrs
Input devices	
Touchscreen	5-wire hardened resistive
Interface	

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

Interface type	2 x LAN, 1 x fiber optic LAN (optional), 2 x USB (rear I.S. optional), 1 x Audio In/Out, 1 x VGA, Optically isolated to 1500 V : 1 x RS-232, 1 x RS-485, 1 x DI/DO, 1 x USB (front I.S. optional) Fiber Optic LAN: multi-mode fiber, ST connection, IEEE 802.3/u/x, 100 Mbps, up to 4km (full duplex)
Directive conformity	
Electromagnetic compatibility	EN 61000 sections 3-2, 3-3, 6-2
Software	
Operating system	Windows® 10 IoT Enterprise x64
Ambient conditions	
Operating temperature	-40 ... 65 °C (-40 ... 149 °F) (with heater) -20 ... 65 °C (-4 ... 149 °F) (no heater)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	0 ... 95% (noncondensing)
Shock resistance	MIL-STD-810G Operational: 40G peak, 11 msec, 3-axis Storage: 40G peak, 11 msec, 3-axis
Vibration resistance	MIL-STD-810G Operational: 2.2G RMS, 20-2000 Hz, 1 hr per axis Storage: 3.1G RMS, 20-2000 Hz, 1 hr per axis
Mechanical specifications	
Degree of protection	Type 4X, IP66
Material	357 and 6061 Marine grade aluminum
Mass	approx. 17 kg (38 lbs)
Mounting	100 mm standard VESA hole pattern, yoke, panel mount
Data for application in connection with hazardous areas	
Interface type 1	Non-incendive/intrinsically safe rear USB ports (keyboard/mouse connection)
Voltage U_o	4.92 V
Current I_o	183 mA
Maximum safe voltage U_m	30 V
Capacitance C_o	52 μ F
Inductance L_o	800 μ H
Interface type 2	Non-incendive/intrinsically safe front USB port (Ex rated flash drive)
Voltage U_o	5 V
Current I_o	240 mA
Maximum safe voltage U_m	30 V
Capacitance C_o	(Group IIB = 60 μ F) (Group IIC = 12 μ F)
Inductance L_o	24 μ H
International approvals	
UL approval	cULus UL60950 ANSI/ISA-12.12.01-2012 (Hazardous Location) CSA 213 - M1987 (Hazardous Location) CSA 22.2 No. 60950 (IT Equipment)
Control drawing	116-B017
Approved for	Class I/Div 2 , Class I/Zone 2
IECEx approval	EN 60079-0:2009, EN 60079-15:2010, EN 60079-11:2012 IEC 60950 (IT Equipment) IEC 60079-0(ed 5), IEC 60079-11(ed 6), IEC 60079-15(ed 4) (Hazardous Location) EN 60950 (IT Equipment)
Approved for	ATEX Zone 2 Ⓜ II 3G IIC IECEx Zone 2 Ⓜ II 3G IIC

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Accessories

Mounting accessories	
XT-PM-KIT	Panel mount kit
XT-YM-KIT	Yoke mount
XT-YM-KIT-PDSTL1	Yoke mount with pedestal
XT-YM-KIT-SNSHLD	Yoke mount with sunshield
XT-YM-KIT-SNSHLD-KBT	Yoke mount with sunshield and keyboard tray
XT-YM-KIT-SNSHLD-PDSTL1	Yoke mount with sunshield and pedestal
XT-YM-KIT-SNSHLD-KBT-PDSTL1	Yoke mount with sunshield, keyboard tray, and pedestal
PEDESTAL2-130-3V-NP-G-F-N-S	Pedestal w/ 100mm VESA mount

Type Code

P C 9 7 1 5 R - W 3 - Q 1 A C - X T 1 A F 0 L L - S 0 - N 0

Options

- N0** No option
- U1** 2 x Non-incendive USB inputs for rear I/O Keyboard input

Special accessories

- S0** No special accessories
- SH** Heater (-40 °C operation)

Network features

- LL** 2 x LAN
- LF** 1 x ST Fiber, 1 x LAN

Function keys

- F0** No function keys
- F1** Function keys, F1-F4

I/O connections

- A** Rear junction box with cable glands (4 x M20, 2 x M16)
- B** Rear junction box with cable glands (4 x M20, 2 x M16), 1 x USB ("ic") Type A on front panel
- C** Rear junction box w/quick disconnects (1 x LAN, 2 x USB) & cable glands (1 x M20, 1 x M16) - "B1" option only
- D** Rear junction box w/quick disconnects (1 x LAN, 2 x USB) & cable glands (1 x M20, 1 x M16), 1 x USB ("ic") Type A on front panel - "B1" option only

Housing version

- XT1** Cast aluminum housing, IP66

Power supply

- AC** 100-240 VAC, 50-60 Hz
- DC** 18-30 VDC

Board specifications

- QB** Intel Quad Core i7, 2.1 GHz, 8 GB RAM, 120 GB SSD, Windows 10 IoT Enterprise 2016 LTSB (64-bit)

Protection

- W3** IECEX/ATEX II 3G, CI/D2 ABDC, Class I/Zone 2, T4
- B1** ATEX II 3G T4
- L2** IECEX/ATEX II 3G, T4

Screen type

- R** Touch screen, resistive, 5-wire, hardened glass

PC9715 15", XGA (1024 x 768)

PC9719 19", XGA (1280 x 1024)

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