



# VisuNet GXP PC Zone 1/21 (2016 Generation)

## PC-GXP1100-19S\*

- 19 in (48 cm) display
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21
- UL listed for USA and Canada

### VisuNet GXP PC Zone 1/21 (2016 Generation)



### Function

The VisuNet GXP PC (PC-GXP1100- 19S\*/PC-GXP1200-19S\*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21 as well as Class I and II, Division 2, and Class III. Certification for Class I, Zone 2; Class II, Zone 22; and Class III, Zone 22 is also available.

The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-\*/DPU1200-\*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The PC unit (PCU1100-\*/PCU1200-\*) is a hazardous-location rated computing unit that runs a pre-installed Microsoft Windows operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application.

The power supply units (PSU1100-\*/ PSU1200-\*) are hazardous-location rated power supplies that provide the PCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

### Technical Data

General specifications	
Type	Personal Computer
<b>Hardware</b>	
Processor	Intel® Atom™ Bay Trail E3845 1.91 GHz
RAM	4096 MB DDR3L
Mass storage	128 GByte industrial grade MLC SSD
<b>Supply</b>	
Power consumption	
AC	115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A
<b>Indicators/operating means</b>	
Display	
Type	Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)
Resolution	1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color
Contrast	1000:1
Brightness	450 cd/m <sup>2</sup> (nit)
Reading angle	175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)
Input devices	
Touchscreen	optional: projective capacitive; 10 finger multi-touch, glove friendly

Release date: 2022-03-16 Date of issue: 2022-03-16 Filename: t1187984\_eng.pdf

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## Technical Data

Keyboard	Foil keyboard with different pointing device options available (see EXTA2 datasheet)
<b>Interface</b>	
Interface type	<p>Standard:</p> <ul style="list-style-type: none"> <li>1 x Ethernet 100/1000BASE-TX (Ex e) or</li> <li>1 x fiber optic 1000BASE-SX (Multimode) or</li> <li>1 x fiber optic 1000BASE-LX (Singlemode),</li> <li>1 x USB 2.0 (Ex e),</li> <li>2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse),</li> <li>1 x DC or AC power in (via power supply unit)</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>1 x barcode reader interface Pepperl+Fuchs Pscan-D/B (Ex i)</li> </ul> <p>"interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D* and base station IDMX61-B* and IDM-Z1-x61-B* (Ex i)</p> <p>"interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D* (Ex i)</p> <p>"interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i)</p> <ul style="list-style-type: none"> <li>1 x RS-232 (Ex e)</li> <li>1 x RS-485 (Ex e)</li> <li>1 x Ethernet 100/1000Base-TX (Ex e)</li> </ul> <p>Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz</p>
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
<b>Software</b>	
Operating system	Microsoft® Windows® 10 IoT Enterprise x64
<b>Ambient conditions</b>	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g, 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm, 1g, 10 cycles per axis according to EN60068-2-6
<b>Mechanical specifications</b>	
Degree of protection	IP66 (individual components and entire system with housing)
Material	<p>Internal:</p> <ul style="list-style-type: none"> <li>Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU)</li> </ul> <p>External:</p> <ul style="list-style-type: none"> <li>Bezel: stainless steel AISI 304 (1.4301)</li> <li>System housing: stainless steel AISI 304 (1.4301), ground smooth, typical surface roughness Ra = 0.8 µm</li> </ul>
Installation	<ul style="list-style-type: none"> <li>Flush-mount installation (requires customized mounting kit)</li> <li>Panel-mount installation into system housing with bezel</li> <li>Panel-mount installation into cabinet with Bezel and standard mounting kit</li> </ul>
Mass	panel with DC: 22 kg, panel with AC: 23 kg, system housing AG1: 19 kg
Dimensions	<ul style="list-style-type: none"> <li>panel with DC: 524 mm x 453 mm x 120 mm</li> <li>panel with AC: 524 mm x 453 mm x 137 mm</li> <li>panel with AG1 housing: 582 mm x 490 mm x 224 mm</li> </ul>
<b>Data for application in connection with hazardous areas</b>	
EU-type examination certificate	BVS 17 ATEX E 036 X
Marking	<ul style="list-style-type: none"> <li>Ⓜ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb</li> <li>Ⓜ II 2D Ex tb [ib] IIIC T85°C IP66 Db</li> </ul>
Directive conformity	

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**Technical Data**

Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014
<b>International approvals</b>	
UL approval	E492874
Approved for	Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEX approval	IECEX BVS 17.0029X
Approved for	Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIIC T85°C IP66 Db
Standards	IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

**Accessories**

	<b>PCU1100-*</b>	Personal Computer Unit
	<b>DPU1100-J1-19S*</b>	Display Unit
	<b>PSU1100-J1-DC-N0</b>	DC Power Supply
	<b>PSU1100-J1-AC-N0</b>	AC Power Supply
	<b>VisuNet GXP*</b>	Mounting Options "StandardLine" and "BasicLine"
	<b>VISUNET-RM-SHELL5-CC</b>	VisuNet Control Center License Key for RM Shell 5
	<b>VISUNET-RM-SHELL5-DRDC</b>	DRDC License Key for RM Shell 5
	<b>VISUNET-RM-SHELL5-PRO</b>	PRO License Key for RM Shell 5
	<b>1002MC-SX</b>	Gigabit Industrial Media Converter
	<b>IDM-Z1-x61-M-*</b>	Bluetooth® 1-D and 2-D Handheld Reader for Zone 1/21
	<b>IDM-Z1-x60-D-*</b>	Corded 1-D and 2-D Handheld Reader for Zone 1/21
	<b>IDM-Z1-x61-B-J1-BT-N0</b>	Base station for IDM-Z1-* (Zone 1/21)
	<b>HOLDER-BRACKET-XX00-IDMx61-B-N</b>	Stainless steel bracket to mount IDMx61-B-J1-BT-N0 base station to AG-XX00 housing
	<b>DATL-IDM-DB-S-XX00-N0</b>	1 m connector cable for corded handheld reader with M12 connector to open cable end
	<b>SCANNER-HOLDER-U1-XX00-N0</b>	Stainless steel holder for for IDM-Z1- handheld readers, compatible with AG-XX00 housing

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**Accessories**

	<p><b>1002MC-LX-10</b></p>	<p>Gigabit Industrial Media Converter</p>
	<p><b>PCU1100-* (Intel (R) Atom Apollo Lake Processor)</b></p>	<p>Personal Computer Unit</p>

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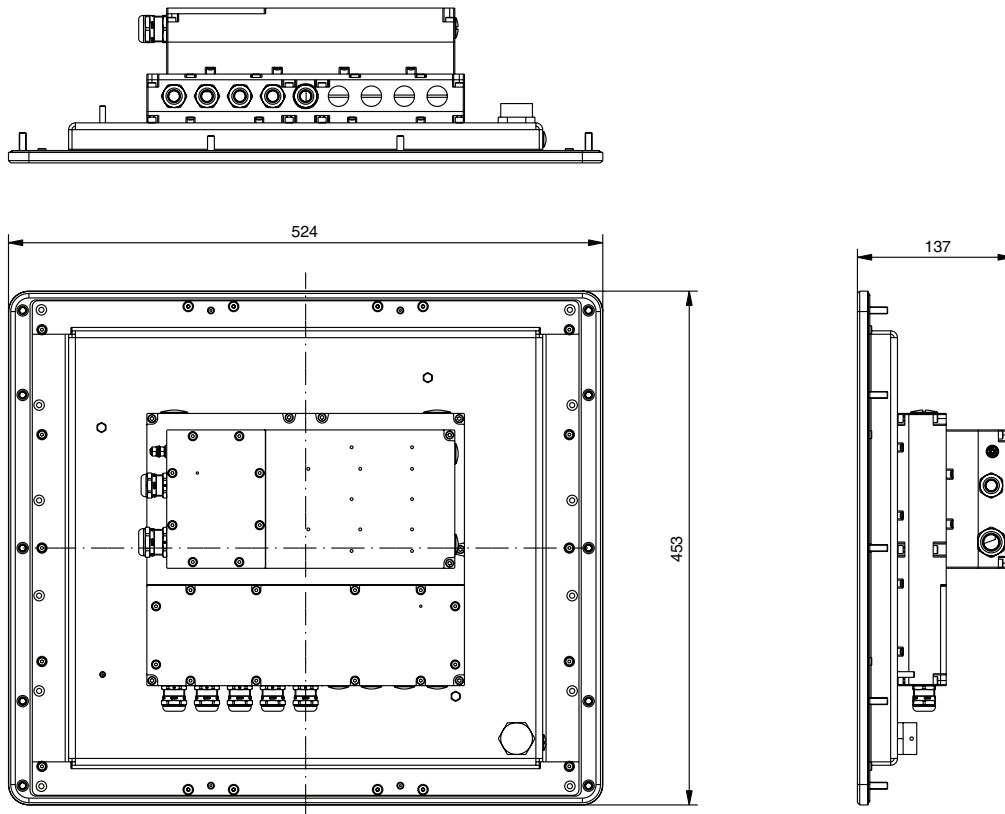
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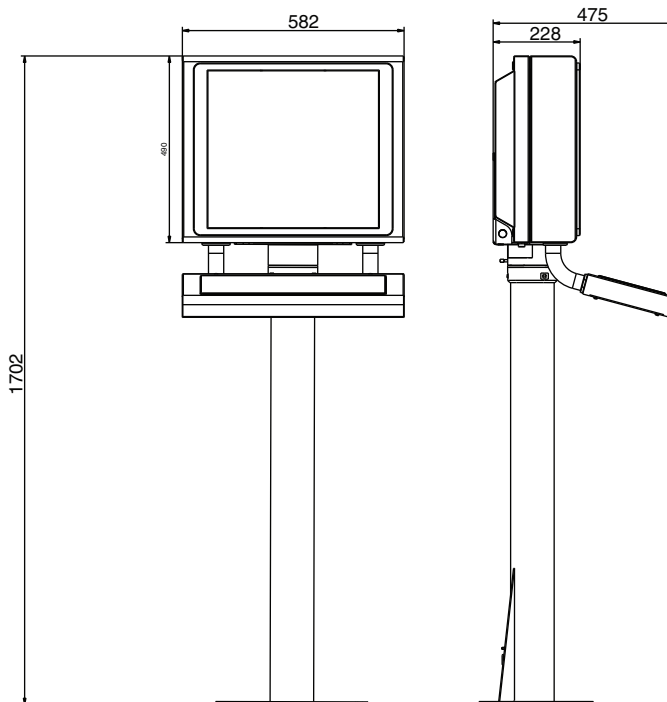
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**Dimensions**



**Mounting Example: Enclosure, Pedestal, External Keyboard**



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**Type Code VisuNet PC-GXP1100-19S\*/PC-GXP1200-19S\***

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options
<b>Model</b>										
<b>PC-GXP1100-</b>	VisuNet GXP Personal Computer System; Zone 1/21									
<b>PC-GXP1200-</b>	VisuNet GXP Personal Computer System; Zone 2/22									
<b>Display Unit</b>										
	<b>19S</b>	19 inch, SXGA (1280 x 1024)								
<b>Front Glass &amp; Touch</b>										
	<b>N</b>	Anti-glare security glass, no touch								
	<b>C</b>	Anti-glare security glass, projective capacitive 10-finger multitouch								
<b>Interfaces</b>										
	<b>1-</b>	5 x capacitive system front keys								
	<b>2-</b>	5 x capacitive system front keys and Bluetooth interface								
<b>Power Supply Unit</b>										
	<b>D-</b>	18 ... 36 V DC								
	<b>A-</b>	115/230 V AC, 50/60 Hz								
<b>Interfaces</b>										
	<b>E</b>	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i								
	<b>S</b>	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i								
	<b>L</b>	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i								
<b>Module A</b>										
	<b>N</b>	No additional interface module								
	<b>B</b>	1 x TTY Ex i for barcode reader PSCAN-D/EX-Dragon and base station PSCAN-B								
	<b>1</b>	1 x RS-232 Ex e								
	<b>2</b>	1 x RS-485 Ex e								
	<b>3</b>	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDmx61-B-* and IDM-Z1-x61-B-*								
	<b>4</b>	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*								
	<b>5</b>	1 x RS-232 Ex i interface for miscellaneous devices and peripherals								
	<b>E</b>	1 x 1000BASE-T LAN Ex e								
<b>Module B</b>										
	<b>N</b>	No additional interface module								
	<b>B</b>	1 x TTY Ex i for barcode reader PSCAN-D/EX-Dragon and base station PSCAN-B								
	<b>1</b>	1 x RS-232 Ex e								
	<b>2</b>	1 x RS-485 Ex e								
	<b>3</b>	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDmx61-B-* and IDM-Z1-x61-B-*								
	<b>4</b>	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*								
	<b>5</b>	1 x RS-232 Ex i interface for miscellaneous devices and peripherals								
	<b>E</b>	1 x 1000BASE-T LAN Ex e								
<b>Computing Platform</b>										
	<b>P2-</b>	Intel Atom Bay Trail E3845 (1.91 GHz), 4 GB RAM, 128 GB SSD, Windows 10 IoT Enterprise x64								
<b>Housing</b>										
	<b>NN-</b>	No bezel, prepared for flush mounting								
	<b>S2-</b>	Bezel; prepared for panel mounting or into AG1 housing								
	<b>H2-</b>	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm								
	<b>H3-</b>	Installed into EX1 AG1 housing (SS304), rear opening, for basic line pedestal only								
<b>Options</b>										
	<b>N0-</b>	Standard, no options								

Example: PC-GXP1100-19SN1-D-ENNP1-S2-N0

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