



# VisuNet GXP Remote Monitor Zone 1/21

## RM-GXP1100-22F\*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- Thin Client solution (with RM Shell firmware)
- Lightweight design
- Full HD Resolution
- 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 Remote Monitor Zone 1/21



### Function

The VisuNet GXP Remote Monitor (RMGXP1100- 22F\*/RM-GXP1200-22F\*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX & 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 thin client unit (TCU1100-\*/ TCU1200-\*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware. The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

The power supply units (PSU1100-\*/ PSU1200-\*) are hazardous-location rated power supplies, providing the TCU 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                       | Remote Monitor                                    |
| Hardware                   |   |
| Processor                  | Intel® Atom™ Bay Trail E3827 1.75 GHz             |
| RAM                        | 2048 MB DDR3L                                     |
| Mass storage               | 32 GByte industrial grade MLC SSD                 |
| Supply                     |   |
| Power consumption          |   |
| AC                         | 115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz             |
| DC                         | 18 ... 36 V DC , 1.5 ... 3 A                      |
| Indicators/operating means |   |
| Display                    |   |
| Type                       | Liquid Crystal Display (LCD) with LED backlight   |
| Screen diagonal            | 54.61 cm (21.5 inch)                              |
| Resolution                 | 1920 x 1080 pixels (Full HD)<br>Aspect ratio 16:9 |
| Color depth                | 24 bit (16.7 M) color                             |
| Contrast                   | 5000:1 (typically)                                |
| Brightness                 | 300 cd/m <sup>2</sup>                             |
| Reading angle              | 175° in all directions                            |

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## Technical Data

|  |   |
|--|---|
| 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  |
| 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> <li>"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)</li> <li>"interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i)</li> <li>"interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i)</li> <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)<br>non-Bluetooth products only   |
| Radio and telecommunication terminal equipment                 |   |
| Directive 2014/53/EU   | EN 301 328 V2.1.1<br>EN 301 489-1 V2.1.1<br>EN 301 489-17 V3.1.1<br>Bluetooth products only   |
| RoHS   |   |
| Directive 2011/65/EU (RoHS)                                    | EN 50581:2012-09  |
| <b>Software</b>  |   |
| Operating system   | VisuNet RM Shell 5.x (based on Microsoft® Windows® 10 IoT LTSB)   |
| <b>Ambient conditions</b>                                      |   |
| Operating temperature  | -20 ... 50 °C (-4 ... 122 °F)<br>Display might react sluggishly below 0 °C  |
| 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> <p>Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU)</p> <p>External:</p> <p>Bezel: stainless steel AISI 304 (1.4301)</p> <p>System housing: stainless steel AISI 304 (1.4301), beat blasted, typical surface roughness Ra = 0.8 µm</p>   |
| Installation   | <p>Flush-mount installation (requires customized mounting kit)</p> <p>Panel-mount installation into system housing with bezel</p> <p>Panel-mount installation into cabinet with Bezel and standard mounting kit</p>   |
| Mass   | <p>Panel (DPU with bezel, TCU, PSU DC): approx. 23 kg</p> <p>Panel (DPU with bezel, TCU, PSU AC): approx. 24 kg</p> <p>System housing (AG-XX00): approx. 11 kg</p>  |
| Dimensions   | <p>Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm</p> <p>Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm</p> <p>Panel with system housing: 625 mm x 459 mm x 173 mm</p> <p>Panel cut-out dimensions: 583 mm x 417 mm (installation surface)</p>  |
| <b>Data for application in connection with hazardous areas</b> |   |
| EU-type examination certificate                                | BVS 17 ATEX E 036 X   |

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## Technical Data





|                                |  |
|--------------------------------|--|
| Marking                        | Ⓜ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb<br>Ⓜ II 2D Ex tb [ib] IIIC T85°C IP66 Db  |
| Directive conformity           |  |
| 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<br>Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85<br>Class III; Zone 22, Group IIIA T85 |
| IECEX approval                 | IECEX BVS 17.0029X   |
| Approved for                   | Ex eb q ib [ib] IIC T4 IP66 Gb<br>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>DATL-FO-SM-LC-LC-15</b>    | Fiber Optic Single-Mode Breakout Cable                                      |
|    | <b>DATL-FO-SM-LC-SC-15</b>    | Fiber Optic Single-Mode Breakout Cable                                      |
|   | <b>TCU1100-*</b>              | Thin Client Unit  |
|  | <b>DPU1100-J1-22F*</b>        | Display Unit  |
|  | <b>PSU1100-J1-DC-N0</b>       | DC Power Supply   |
|  | <b>PSU1100-J1-AC-N0</b>       | AC Power Supply   |
|  | <b>EXTA2-*-K3*</b>            | Ex i keyboard with trackball  |
|  | <b>EXTA2-*-K4*</b>            | Ex i keyboard with touchpad   |
|  | <b>EXTA2-*-K6*</b>            | Ex i keyboard with joystick   |
|  | <b>Mounting Options</b>       |   |
|  | <b>VISUNET-CONTROL-CENTER</b> | Additional Management tool for VisuNet Remote Monitors and Box Thin Clients |
|  | <b>VISUNET-RM-SHELL5</b>      | Thin Client Firmware for VisuNet Remote Monitors                            |
|  | <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   |

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**Accessories**

|   |                              |                                       |
|---|------------------------------|---------------------------------------|
|  | <b>VISUNET-RM-SHELL5-PRO</b> | PRO License Key for RM Shell 5        |
|  | <b>DATL-FO-MM-*</b>          | Fiber Optic Multi-Mode Breakout Cable |
|  | <b>1002MC-SX</b>             | Gigabit Industrial Media Converter    |
|  | <b>DKX4-101</b>              | Raritan Dominion KVM-over-IP Switch   |

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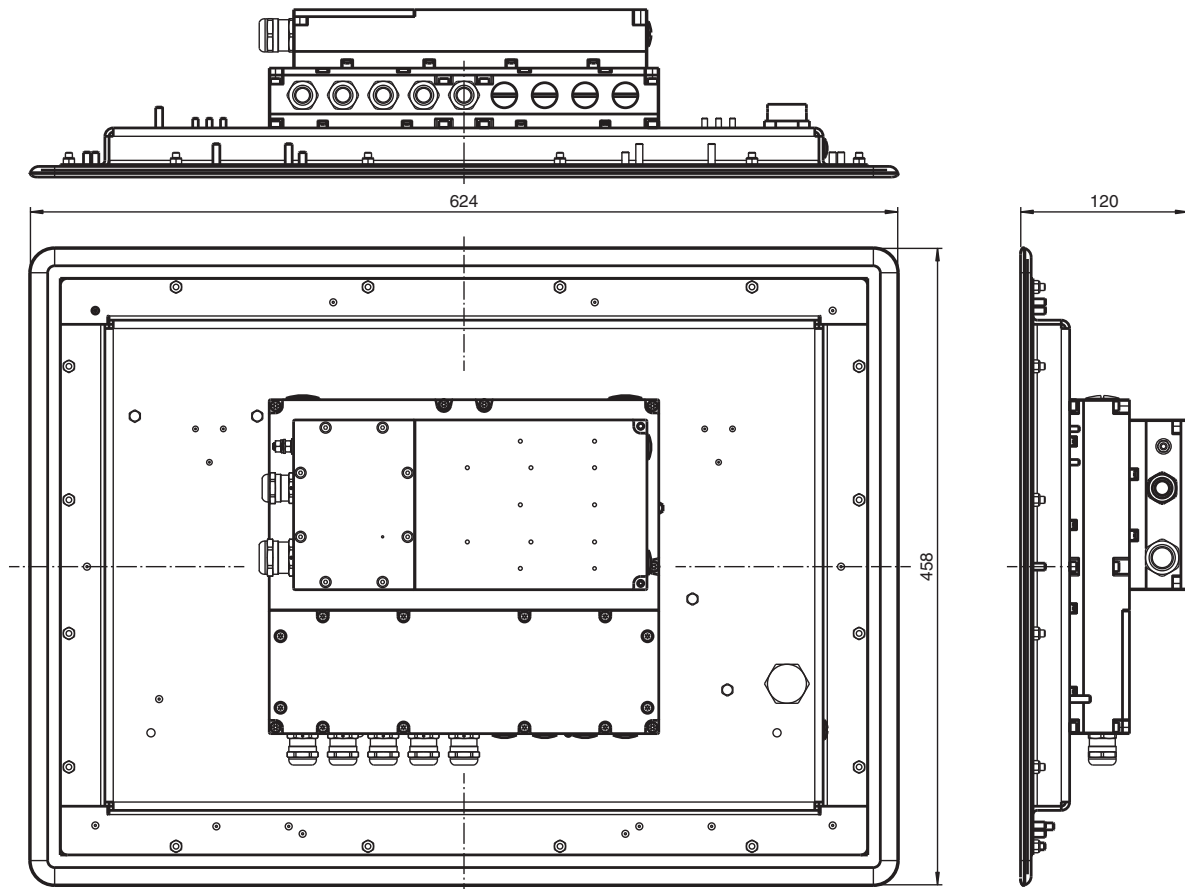
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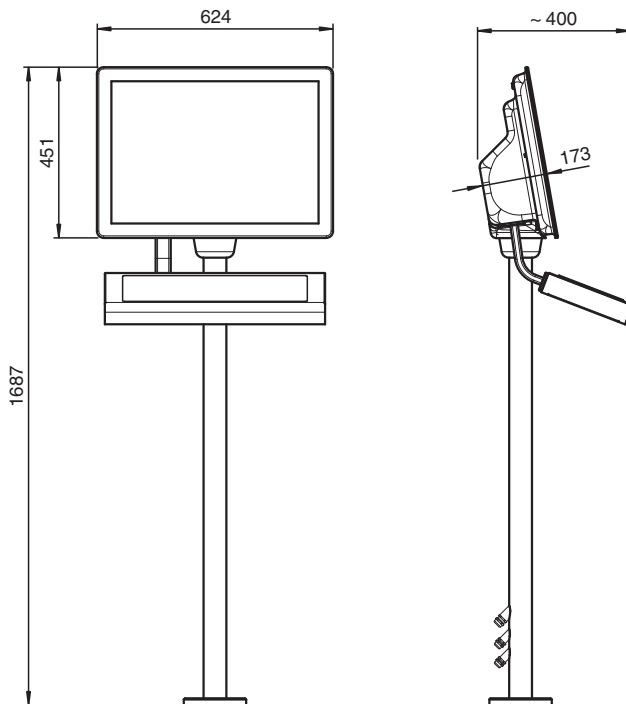
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**Dimensions**



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



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**Type Code VisuNet RM-GXP1100-22F\*/RM-GXP1200-22F\***

| Model                          | Display Unit  | Front Glass & Touch | Interfaces | Power Supply Unit | Interfaces | Module A | Module B | Computing Platform | Housing | Options |
|--------------------------------|---|---------------------|------------|-------------------|------------|----------|----------|--------------------|---------|---------|
| <b>Model</b>                   |   |                     |            |                   |            |          |          |                    |         |         |
| <b>RM-GXP1100-</b>             | VisuNet GXP Remote Monitor System; Zone 1/21  |                     |            |                   |            |          |          |                    |         |         |
| <b>RM-GXP1200-</b>             | VisuNet GXP Remote Monitor System; Zone 2/22  |                     |            |                   |            |          |          |                    |         |         |
| <b>Display Unit</b>            |   |                     |            |                   |            |          |          |                    |         |         |
| <b>22F</b>                     | 21.5 inch (16:9), Full HD (1920 x 1080 pixel)   |                     |            |                   |            |          |          |                    |         |         |
| <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>T2-</b>                     | Intel Atom Bay Trail E3827 (1.75 GHz), 2 GB RAM, 32 GB SSD, RM Shell 5.x (based on Windows 10 IoT LTSB)                   |                     |            |                   |            |          |          |                    |         |         |
| <b>Housing</b>                 |   |                     |            |                   |            |          |          |                    |         |         |
| <b>NN-</b>                     | No bezel, prepared for flush mounting   |                     |            |                   |            |          |          |                    |         |         |
| <b>S1-</b>                     | Bezel; prepared for panel mounting or into AG-XX00 housing  |                     |            |                   |            |          |          |                    |         |         |
| <b>H1-</b>                     | Installed into GXP AG-XX00 housing (SS304), front opening   |                     |            |                   |            |          |          |                    |         |         |
| <b>Options</b>                 |   |                     |            |                   |            |          |          |                    |         |         |
| <b>N0-</b>                     | Standard, no options  |                     |            |                   |            |          |          |                    |         |         |

Example: RM-GXP1100-22FN1-D-ENNT1-S1-N0

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