

## Features

- 19 in (48 cm) display
- Thin Client solution (with RM Shell firmware)
- 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

## Application

The VisuNet GXP Remote Monitor (RM-GXP1100-19S\*/RM-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 field-replaceable by the customer.

The display unit (DPU1100-\*/DPU1200-\*) is a hazardous-location rated display panel with an optional 10 finger multi-touch sensor. The display and touch-sensor 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.



|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General specifications</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Type                                           | Remote Monitor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Hardware</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Processor                                      | Intel® Atom™ Bay Trail E3827 1.75 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RAM                                            | 2048 MB DDR3L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mass storage                                   | 32 GByte industrial grade MLC SSD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Supply</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power consumption                              | AC:<br>115/230 V AC, 0.7 ... 0.4 A, 50/60 Hz, max. 50 W<br>DC:<br>18 ... 36 V DC, 3.0 ... 1.5 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Keyboard                                       | Foil keyboard with different pointing device options available (see EXTA2 datasheet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Interface</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Interface type                                 | Pepperl+Fuchs interface v1.0 for display units<br>1 x Ethernet 100/1000BASE-TX (Ex e) or fiber optic 1000Base-SX<br>1 x USB 2.0 (Ex e)<br>2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse)<br>optional: 1 x barcode reader interface Pepperl+Fuchs Pscan-D/B (Ex i)<br>optional: 1 x RS-232 (Ex e)<br>optional: 1 x RS-485 (Ex e)<br>optional: 1 x Ethernet 100/1000Base-TX (Ex e)<br>optional: Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz |
| <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 4.x (based on Microsoft® Windows™ Embedded Standard 7)<br>or VisuNet RM Shell 5.x (based on Windows 10 IoT LTSP)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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                                       | Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU)<br>Bezel: stainless steel AISI 304 (1.4301)<br>System housing: stainless steel AISI 304 (1.4301), ground smooth, typical surface roughness Ra = 0,8 µm                                                                                                                                                                                                                                                                                                                                 |
| Installation                                   | Flush-mount installation (requires customized mounting kit)<br>Panel-mount installation into system housing with bezel<br>Panel-mount installation into cabinet with Bezel and standard mounting kit                                                                                                                                                                                                                                                                                                                                                     |
| Mass                                           | panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Dimensions                                     | panel with DC: 524 mm x 453 mm x 120 mm<br>panel with AC: 524 mm x 453 mm x 137 mm<br>pane housing: 582 mm x 490 mm x 224 mm                                                                                                                                                                                                                                                                                                                                                                                                                             |

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

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|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data for application in connection with hazardous areas</b> |                                                                                                                                                                        |
| EU-Type Examination Certificate                                | BVS 17 ATEX E 036 X                                                                                                                                                    |
| Marking                                                        | <div> <div>Ex</div> <div>II 2G Ex eb q ib [ib] IIC T4 IP66 Gb</div> </div> <div> <div>Ex</div> <div>II 2D Ex tb [ib] IIIC T85°C IP66 Db</div> </div>                   |
| 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

TCU1100-\*

Thin Client Unit

DPU1100-J1-19S\*

Display Unit

PSU1100-J1-DC-N0

DC Power Supply

PSU1100-J1-AC-N0

AC Power Supply

EXTA2-\*-K3\*

EXTA2-\*-K4\*

EXTA2-\*-K6\*

Mounting Options

VISUNET-CONTROL-CENTER

VISUNET-RM-SHELL4

VISUNET-RM-SHELL4-CC

VISUNET-RM-SHELL4-DRDC

VISUNET-RM-SHELL4-PRO

PSCAN-D-1\*-F2-\*

Handheld barcode reader

PSCAN-M\*

Handheld barcode reader

PSCAN-B\*

Base station

DKX2-101-V2

Raritan Dominion KVM Switch

VisuNet GXP\*

Mounting Options "StandardLine" and "BasicLine"

VISUNET-RM-SHELL5

Thin Client Firmware for VisuNet Remote Monitors

VISUNET-RM-SHELL5-CC

VisuNet Control Center License Key for RM Shell 5

VISUNET-RM-SHELL5-DRDC

DRDC License Key for RM Shell 5

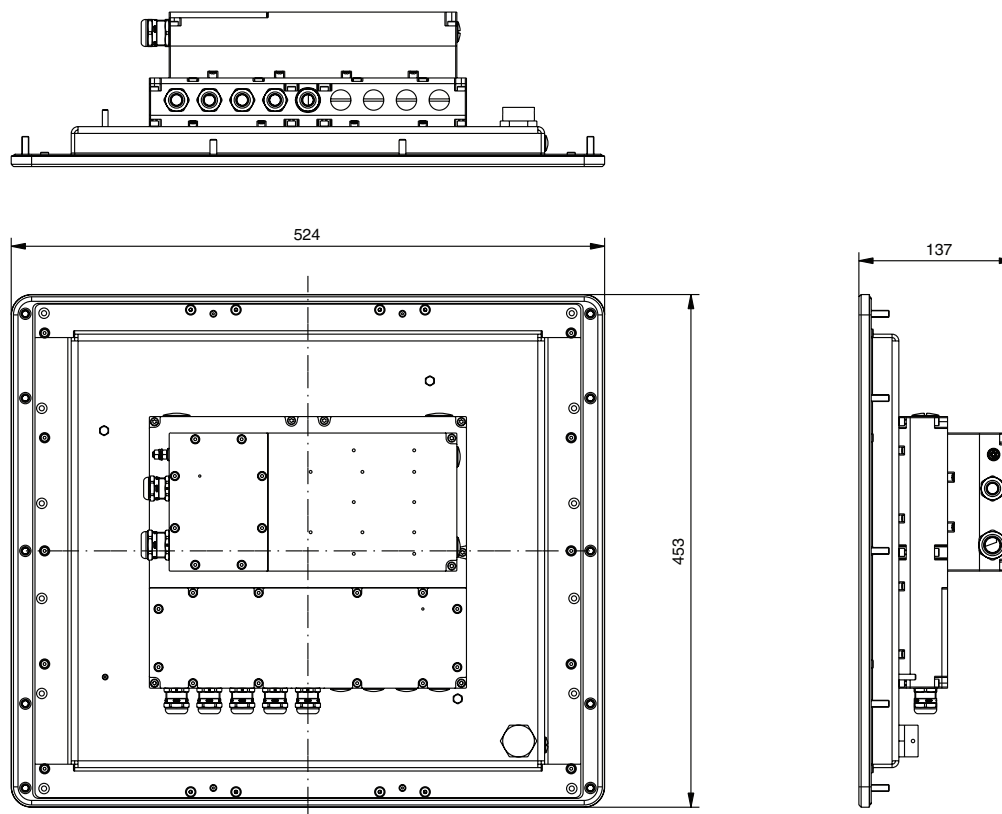
VISUNET-RM-SHELL5-PRO

PRO License Key for RM Shell 5

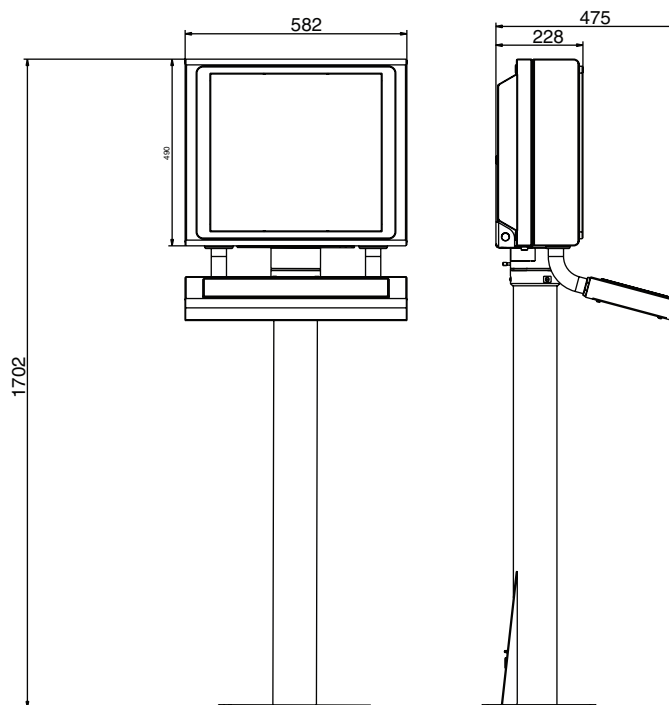
DATL-FO-MM-\*

Fiber Optic Multi-Mode Breakout Cable

## Dimensions



## Mounting Example: Enclosure, Pedestal, External Keyboard



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## Type Code VisuNet RM-GXP1100-19S\*/RM-GXP1200-19S\*

Example: RM-GXP1100-19SN1-D-ENNT1-S2-N0