

Features

- 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

Application

The VisuNet GXP Remote Monitor (RM-GXP1100-22F*/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 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.



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, 0.7 ... 0.4 A, 50/60 Hz, max. 50 W DC: 18 ... 36 V DC, 3.0 ... 1.5 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) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color
Contrast	5000:1 (typically)
Brightness	300 cd/m ²
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)
Interface	
Interface type	Pepperl+Fuchs interface v1.0 for display units 1 x Ethernet 100/1000BASE-TX (Ex e) or fiber optic 1000Base-SX 1 x USB 2.0 (Ex e) 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse) optional: 1 x barcode reader interface Pepperl+Fuchs Pscan-D/B (Ex i) optional: 1 x RS-232 (Ex e) optional: 1 x RS-485 (Ex e) optional: 1 x Ethernet 100/1000Base-TX (Ex e) optional: Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity	
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
Software	
Operating system	VisuNet RM Shell 4.x (based on Microsoft® Windows™ Embedded Standard 7) or VisuNet RM Shell 5.x (based on Windows 10 IoT LTSC)
Ambient conditions	
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
Mechanical specifications	
Degree of protection	IP66 (individual components and entire system with housing)
Material	Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301) beat blasted , typical surface roughness Ra = 0.8 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	Panel (DPU with bezel, TCU, PSU DC): approx. 23 kg Panel (DPU with bezel, TCU, PSU AC): approx. 24 kg System housing (AG-XX00): approx. 11 kg

Release date 2018-07-09 23:13 Date of issue 2018-07-09 t187460_eng.xml

Dimensions	Panel (DPU with bezel, TCU, PSU DC): 625x459x120 mm Panel (DPU with bezel, TCU, PSU AC): 625x459x137 mm Panel with system housing: 625x459x173 mm
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	BVS 17 ATEX E 036 X
Marking	Ⓔ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ⓔ 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
International approvals	
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

TCU1100-*

Thin Client Unit

DPU1100-J1-22F*

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-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

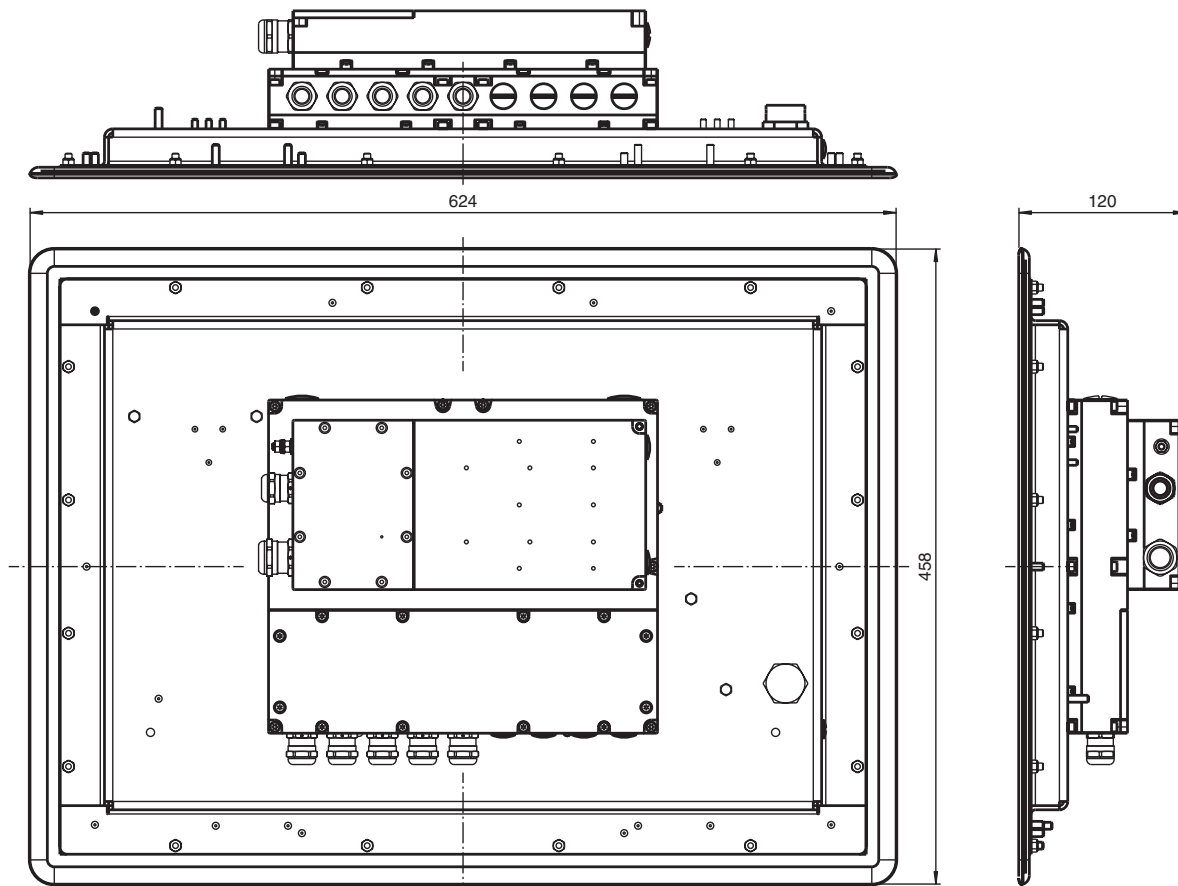
VISUNET-RM-SHELL5-PRO

PRO License Key for RM Shell 5

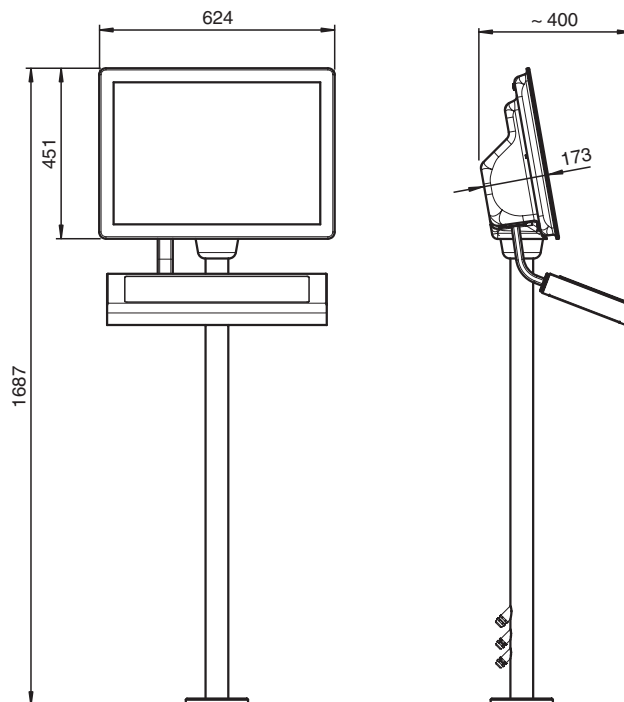
DATL-FO-MM-*

Fiber Optic Multi-Mode Breakout Cable

Dimensions



Mounting Example: Enclosure, Pedestal, External Keyboard



Release date 2018-07-09 23:13 Date of issue 2018-07-09 t187460_eng.xml

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

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	
Model											
RM-GXP1100-	VisuNet GXP Remote Monitor System; Zone 1/21										
RM-GXP1200-	VisuNet GXP Remote Monitor System; Zone 2/22										
	Display Unit										
	22F	21.5 inch (16:9), Full HD (1920 x 1080 pixel)									
		Front Glass & Touch									
		N	Anti-glare security glass, no touch								
		C	Anti-glare security glass, projective capacitive 10-finger multitouch								
			Interfaces								
		1-	5 x capacitive system front keys								
		2-	5 x capacitive system front keys and Bluetooth interface								
			Power Supply Unit								
		D-	18 ... 36 V DC								
		A-	115/230 V AC, 50/60 Hz								
			Interfaces								
		E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i								
		S	1 x 1000BASE-SX fiber optic Ex, 1x USB Ex e, 2x USB Ex i								
			Module A								
		N	No additional interface module								
		B	1 x TTY Ex i for barcode reader (PSCAN-D / EX-Dragon) and base station (PSCAN-B)								
		1	1 x RS-232 Ex e								
		2	1 x RS-485 Ex e								
		E	1 x 1000BASE-T LAN Ex e								
			Module B								
		N	No additional interface module								
		B	1 x TTY Ex i for barcode reader (PSCAN-D / EX-Dragon) and base station (PSCAN-B)								
		1	1 x RS-232 Ex e								
		2	1 x RS-485 Ex e								
		E	1 x 1000BASE-T LAN Ex e								
			Computing Platform								
		T1-	Intel® Atom Bay Trail E3827 (1.75 GHz), 2 GB RAM, 32 GB SSD, RM Shell 4.x (based on WES7)								
		T2-	Intel® Atom Bay Trail E3827 (1.75 GHz), 2 GB RAM, 32 GB SSD, RM Shell 5.x (based on Windows 10 IoT LTSC)								
			Housing								
		NN-	No bezel, prepared for flush mounting								
		S1-	Bezel; prepared for panel mounting or into AG-XX00 housing								
		H1-	Installed into GXP AG-XX00 housing (SS304), front opening								
			Options								
		N0-	Standard, no options								

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