



VisuNet IxD Remote Monitor Zone 1/21

RM-IXD2100-19U*

- 19 in (48 cm) high bright display
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Completely modular system for easy field maintainability
- Panel and yoke mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21

VisuNet IxD Remote Monitor Zone 1/21



Function

The VisuNet IxD Remote Monitor (RM-IXD2100-19U*) is a lightweight, modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21.

The system assembly consists of three core components that are field-replaceable by customers.

The display unit (DPU2100-*) 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-*) 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 unit (PSU1100-*) is a hazardous-location rated power supply that provides 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 yoke or wall mounted with additional accessories.

Technical Data

General specifications	
Type	Remote Monitor
Hardware	
Processor	Intel® Atom™ Bay Trail E3827 1.75 GHz
RAM	2048 MB DDR3L
Mass storage	32 GB industrial grade MLC SSD
Supply	
Power consumption	AC: 115/230 V AC, 1.5 A max, 50/60 Hz DC: 18 ... 36 V DC, 5.3 A max
Indicators/operating means	
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	1000 cd/m2
Reading angle	175° in all directions
Life span	back lamp life: 70 000 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	

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

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Technical Data

Interface type	<p>Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit)</p> <p>Optional: 1 x barcode reader interface Pepperl+Fuchs Pscan-D/B (Ex i)</p> <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> <p>1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz</p>
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) EN 61000-6-4:2007+A1:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Software	
Operating system	VisuNet RM Shell 5.x (based on Windows 10 IoT LTSP)
Ambient conditions	
Operating temperature	-20 ... 60 °C (-4 ... 140 °F) Installed in AG1 housing: -20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F) Installed in AG1 housing: -20 ... 50 °C (-4 ... 122 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	3 shocks 20 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	5 ... 500 Hz, +/- 0.075 mm , 1.5 g, 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, PSU), powder coated aluminum (DPU) Bezel: powder coated aluminum
Installation	Yoke or wall mount with additional accessories 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: 542 mm x 460 x 132 mm panel with AC: 542 mm x 460 mm x 149 mm panel with housing: 582 mm x 490 mm x 224 mm
Data for application in connection with hazardous areas	
EU-type examination certificate	CML 18 ATEX 5074 X
Marking	Ⓜ II 2G Ex eb q ib [ib] IIC T4 Gb Ⓜ II 2D Ex tb [ib] IIC T85°C 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	
IECEx approval	IECEx CML 18.0045X
Approved for	Ex eb q ib [ib] IIC T4 Gb Ex tb [ib] IIC T85°C Db
Standards	IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

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Accessories

	DATL-FO-SM-LC-LC-15	Fiber Optic Single-Mode Breakout Cable
	DATL-FO-SM-LC-SC-15	Fiber Optic Single-Mode Breakout Cable
	DPU2100-J1-19U*	Display Unit
	PSU1100-J1-DC-N0	DC Power Supply
	PSU1100-J1-AC-N0	AC Power Supply
	EXTA2-*-K4*	Ex i keyboard with touchpad
	PSU-IDMx60-*	Power supply for IDM* handheld readers and base stations
	VISUNET-RM-SHELL5	Thin Client Firmware for VisuNet Remote Monitors and Box Thin Clients
	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
	Mounting Options	Accessories for VisuNet IXD
	TCU1100-*	Thin Client Unit
	1002MC-SX	Gigabit Industrial Media Converter
	DATL-FO-MM-*	Fiber Optic Multi-Mode Breakout Cable
	DKX4-101	Raritan Dominion KVM-over-IP Switch

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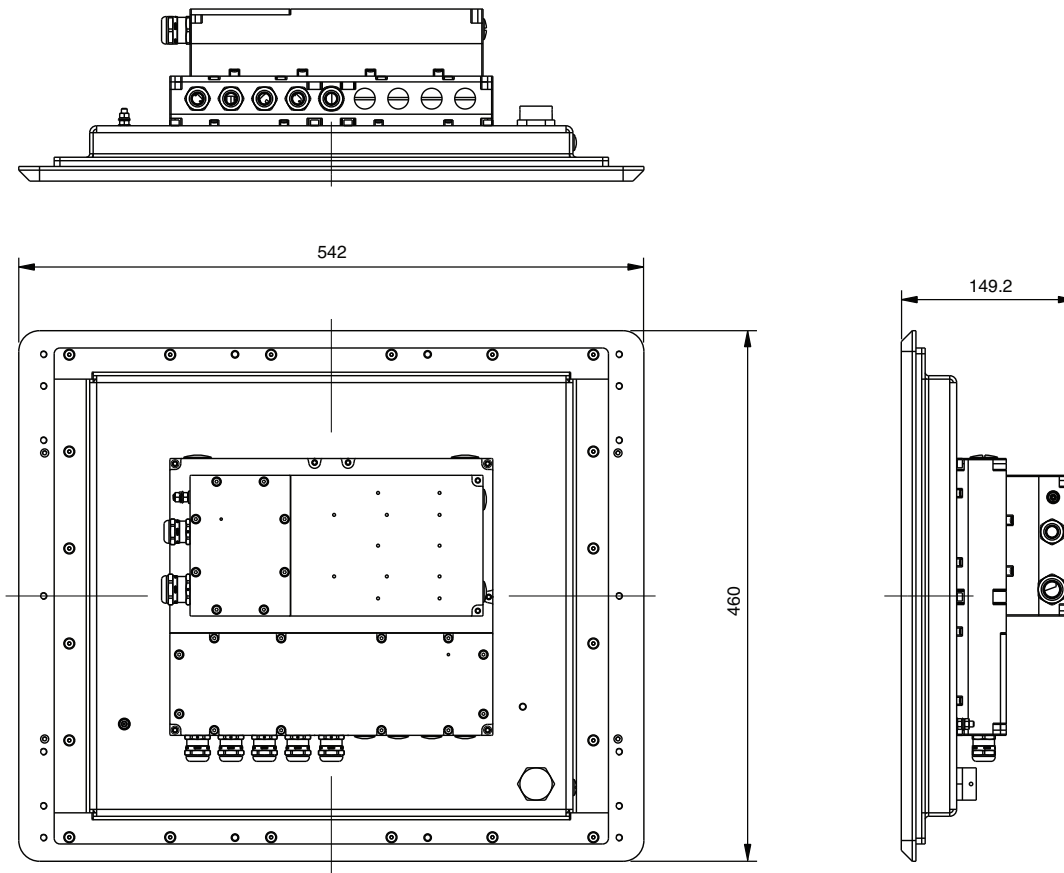
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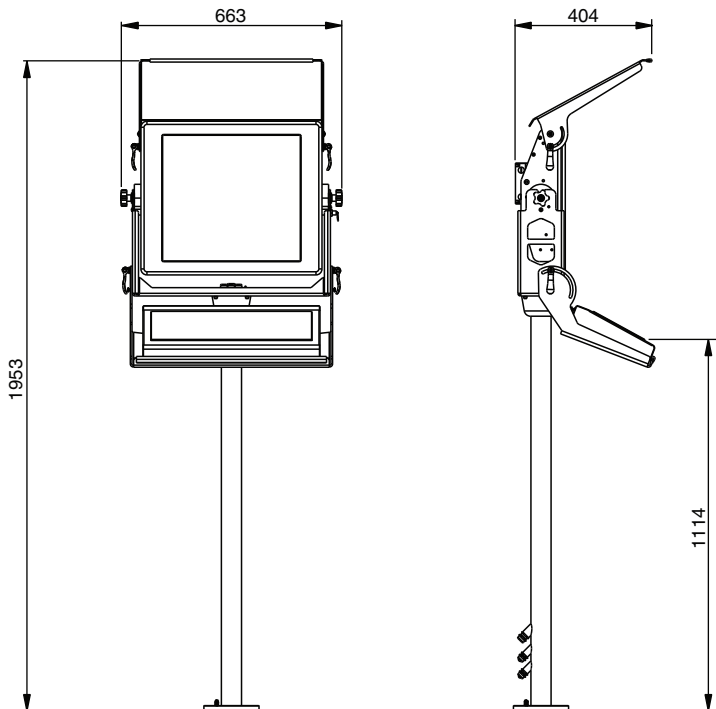
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Dimensions



Mounting Example: Yoke mount on pedestal with sunshield and keyboard tray*



* See the manual for complete mounting options.

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Type Code

Type Code VisuNet RM-IXD2100-19U*

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options
Model										
RM-IXD2100-	VisuNet IXD Remote Monitor System; Zone 1/21									
	Display Unit									
	19U	19", SXGA (1280x1024); high bright								
	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								
	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, 1 x USB Ex e, 2 x USB Ex i								
	S	1 x 1000BASE-SX fiber optic (Multimode), 1 x USB Ex e, 2 x USB Ex i								
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i								
	Module A									
	N	No additional interface module								
	B	1 x TTY Ex i for barcode scanner								
	1	1 x RS-232 Ex e								
	2	1 x RS-485 Ex e								
	3	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-*								
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D*								
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals								
	E	1 x 1000BASE-T LAN Ex e								
	Module B									
	N	No additional interface module								
	B	1 x TTY Ex i for barcode scanner								
	1	1 x RS-232 Ex e								
	2	1 x RS-485 Ex e								
	3	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-*								
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D*								
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals								
	E	1 x 1000BASE-T LAN Ex e								
	Computing Platform									
	T2-	Intel® Atom Bay Trail E3827 (1.75 GHz), 2 GB RAM, 32 GB SSD, RM Shell 5.x (based on Windows 10 IoT LTSP)								
	Housing									
	Y2-	Aluminum bezel; prepared for yoke mount								
	W2-	Aluminum bezel; prepared for wall/VESA mount								
	A2-	Aluminum bezel; prepared for panel mounting								
	H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm								
	Options									
	N0-	Standard, no options								

Example: RM-IXD2100-19UN1-D-ENNT2-A2-N0

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