

UR20-FBC-PN-IRT**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****More performance. Simplified.
u-remote.**

Weidmüller u-remote – our innovative remote I/O concept with IP 20 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, no more downtime. For considerably improved performance and greater productivity.

Reduce the size of your cabinets with u-remote, thanks to the narrowest modular design on the market and the need for fewer power-feed modules. Our u-remote technology also offers tool-free assembly, while the modular "sandwich" design and integrated web server speed up installation, both in the cabinet and machine. Status LEDs on the channel and each u-remote module enable reliable diagnosis and rapid service.

This and many other amazing ideas boost the availability of your machines and systems. And ensure smooth processes too. From planning to operation.

u-remote stands for "More Performance". Simplified

General ordering data

Version	Remote I/O fieldbus coupler, IP20, Ethernet, PROFINET IRT
Order No.	1334880000
Type	UR20-FBC-PN-IRT
GTIN (EAN)	4050118138320
Delivery status	This article will no longer be available in the future.
Available until	2019-04-30
Alternative product	2566380000

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Technical data

Dimensions and weights

Depth	76 mm	Depth (inches)	2.992 inch
Height	120 mm	Height (inches)	4.724 inch
Mounting dimension - height	128 mm	Net weight	247 g
Weight	247 g	Width	52 mm
Width (inches)	2.047 inch		

Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C ... +60 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Connection data

Type of connection	PUSH IN	Wire connection cross section, finely stranded, max.	1.5 mm ²
Wire connection cross section, finely stranded, min.	0.14 mm ²	Wire cross-section, finely stranded, max. (AWG)	AWG 16
Wire cross-section, finely stranded, min. (AWG)	AWG 26	Wire cross-section, solid, max.	1.5 mm ²
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min.	0.14 mm ²
Wire cross-section, solid, min. (AWG)	AWG 26		

General data

Air humidity (operation)	10% to 95%, non-condensing as per DIN EN 61131-2		
Air humidity (storage)	10% to 95%, non-condensing as per DIN EN 61131-2		
Air humidity (transport)	10% to 95%, non-condensing as per DIN EN 61131-2		
Air pressure (operation)	≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2		
Air pressure (storage)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2		
Air pressure (transport)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2		
Pollution severity	2		
Rail	TS 35		
Restricted area	Positive expansion	X coordinate	83.5 mm
		Z coordinate	85 mm
		Y coordinate	160 mm
	Type of restricted area	thermal	
	Negative expansion	Z coordinate	0 mm
		Y coordinate	-40 mm
		X coordinate	-28 mm
Shock	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27		
Surge voltage category	II		
Test voltage	500 V		
UL 94 flammability rating	V-0		
Vibration resistance	5 Hz ≤ f ≤ 8.4 Hz: 3.5-mm amplitude as per IEC 60068-2-6, 8.4 Hz ≤ f ≤ 150 Hz: 1 g acceleration as per IEC 60068-2-6		

Power supply

Current consumption from I _{IN} (power segment of the field bus coupler), typ.	116 mA
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Technical data

Current consumption from I_{IN} (power segment of the fieldbus coupler), typ.	min.	116 mA
	nominal	116 mA
	max.	116 mA
Feed current for I_{IN} (input current path)	max.	10,000 mA
	nominal	10,000 mA
	min.	10,000 mA
Feed current for I_{IN} (input current path) , max.	10 A	
Feed current for I_{OUT} (output current path)	nominal	10,000 mA
	min.	10,000 mA
	max.	10,000 mA
Feed current for I_{OUT} (output current path) , max.	10 A	
Feed current for the system, max.	4 A	
Supply voltage for outputs	24 V DC +20 %/ -15 %	
Supply voltage system and inputs	24 V DC +20 %/ -15 %	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus	

System data

Connection type	2 x RJ45 plug-in connectors	Diagnostic data	1,485 Byte
Field bus protocol	PROFINET IRT	Interface	u-remote system bus
Module type	Bus coupler	Parameter data	1,485 Byte
Process data	1,024 Byte	Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s	max. number of modules	64 ST

Classifications

ETIM 6.0	EC001603	ETIM 7.0	EC001603
ECLASS 9.0	27-24-26-07	ECLASS 9.1	27-24-26-07
ECLASS 10.0	27-24-26-07	ECLASS 11.0	27-24-26-07

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Technical data

Tender specification sheets

Long specification

Profinet IRT field bus coupler with integrated 2-port switch, 100 Mbit/s for digital and analogue signals. The switch enables a linear structure. The field bus coupler recognises the installed modules and uses them to generate a process image. The module sequence is not relevant. The field bus coupler is integrated into an application as a Profinet I/O device. Corresponding GSDML files are available from www.Weidmueller.de. Connection system: PUSH-IN terminal Transmission medium: twisted pair, 100 Ω , cat. 5 Fieldbus transmission rate: 100 Mbit Transmission rate of the u-remote system bus: 48 Mbit Bus interface: 2 x RJ45 Voltage supply: 24 VDC +25% / -15% Feed-in current for system: 4 A Feed-in current for input modules: 10 A Feed-in current for output modules: 10 A Internal current consumption: 116 mA Process data: 1024 bytes Parameter data: 1485 bytes Diagnostic data: 1485 bytes Number of I/O points: Number of I/O stations: Number of modules: max. 64 Protocol: Profinet IRT Start-up aid: web server Configuration interface: USB Protection degree: IP20 Mounting position: horizontal, vertical with derating - see manual Efficiency of the power supply unit: Potential separation: between system path, input and output path Current via power contacts: 10 A on input and on output paths Storage temperature: -40°C - +85°C Operating temperature: -20°C - +60°C Relative humidity: 10% - 90%, non-condensing Weight: 220 g Dimensions (WxHxD): 52 mm x 120 mm x 76 mm Approvals: UL, Ex, Brand: Weidmüller Type: UR20-FBC-PN-IRT

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Technical data

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[Declaration of Conformity](#)
[Compass safe distance certificate](#)
[Lloyds Register certificate](#)
[DNV/GL certificate](#)
[ABS certificate](#)
[RINA certificate](#)
[Bureau Veritas - Type Approval Certificate](#)
[PRS \(Polish Register of Shipping\)](#)
[NIPPON KAIJI KYOKAI Certificate](#)

Engineering Data

[Siemens - Step 7](#)
[Siemens - TIA Portal](#)

Engineering Data

[EPLAN, WSCAD, Zuken E3.S](#)

Product Change Notification

[Release-Notes - GSDML](#)
[Release-Notes - Firmware and Supported modules list](#)

Software

[Language Pack UR20_FBC](#)
[Archiv Firmware files PROFINET coupler](#)
[Current Firmware file PROFINET coupler](#)
[Archiv GSDML files PROFINET coupler](#)
[Current GSDML file PROFINET coupler](#)
[USB driver](#)
[CPD-Tool \(PROFIsafe parameter-checksum-generator\)](#)

User Documentation

[MAN_U-REMOTE_DE](#)
[MAN_U-REMOTE_EN](#)
[MAN_U-REMOTE_FS_DE](#)
[MAN_U-REMOTE_FS_EN](#)
[MAN_UR20_WEBSERVER_DE](#)
[MAN_UR20_WEBSERVER_EN](#)

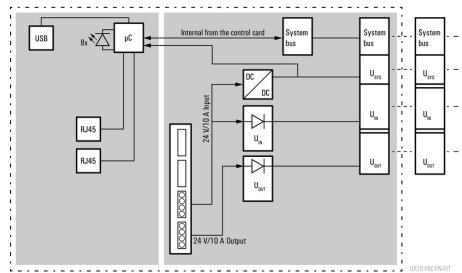
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Drawings

Block diagram



Connection diagram

