

**UR20-FBC-EC**

**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, EtherCAT
Order No.	<a href="#">1334910000</a>
Type	UR20-FBC-EC
GTIN (EAN)	4050118138283
Qty.	1 Stück
Replacement parts	<a href="#">1484440000</a>

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## Technische Daten

### Dimensions and weights

Depth	76 mm	Depth (inches)	2.992 inch
Height	120 mm	Height (inches)	4.724 inch
Width	52 mm	Width (inches)	2.047 inch
Mounting dimension - height	128 mm	Net weight	227 g

### Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C ... +60 °C
Operating temperature, min.	-20 °C	Operating temperature, max.	60 °C

### Connection data

Type of connection	PUSH IN	Wire connection cross section, finely stranded, max.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.14 mm <sup>2</sup>	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 <sup>2</sup>
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min.	0.14 mm <sup>2</sup>
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
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 <sub>sys</sub> , typ.	130 mA		
Feed current for I <sub>IN</sub> (input current path)	nominal	10,000 mA	
	min.	10,000 mA	
	max.	10,000 mA	
Feed current for I <sub>IN</sub> (input current path), max.	10 A		
Feed current for I <sub>OUT</sub> (output current path)	min.	10,000 mA	
	max.	10,000 mA	
	nominal	10,000 mA	
Feed current for I <sub>OUT</sub> (output current path), max.	10 A		
Feed current for the system, max.	4 A		

Erstellungs-Datum May 25, 2023 10:44:41 AM CEST

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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

Configuration interface	Micro USB 2.0	Connection type	2x RJ45 plug-in connectors
Diagnostic data	3,200 Byte	Field bus protocol	EtherCAT
Interface	u-remote system bus	Module type	Bus coupler
Parameter data	4 kByte	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		

### Classifications

ETIM 6.0	EC001603	ETIM 7.0	EC001603
ETIM 8.0	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	ECLASS 12.0	27-24-26-07

## Technische Daten

### Tender specification sheets

#### Long specification

EtherCAT field bus coupler with integrated 2-port switch, 100 Mbit/s for digital and analogue signals. 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 an EtherCAT I/O device. Connection system: PUSH-IN terminal Transmission medium: 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: 130 mA Process data: 8 kByte Parameter data: 1024 bytes Diagnostic data: 1024 bytes Number of I/O points: Number of I/O stations: Number of modules: max. 64 Protocol: EtherCAT 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 paths 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-EC

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**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
SCIP	98e19a7e-033b-4e68-93e3-c47b30de875e

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

## Technische Daten

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">KC certificate</a> <a href="#">Compass safe distance certificate</a> <a href="#">Lloyds Register certificate</a> <a href="#">DNV/GL certificate</a> <a href="#">ABS certificate</a> <a href="#">RINA certificate</a> <a href="#">Bureau Veritas - Type Approval Certificate</a> <a href="#">PRS (Polish Register of Shipping)</a> <a href="#">NIPPON KAIJI KYOKAI Certificate</a> <a href="#">Device description – WI13ATEX0002_Power_Calc</a> <a href="#">DEMKO15ATEX1525X</a> <a href="#">CCC certificate</a> <a href="#">UKCA Declaration of Conformity - EN</a> <a href="#">CE Declaration of Conformity - DE</a>
Engineering Data	<a href="#">Library and function block – Beckhoff TwinCAT3 - EN - V1.1.0</a> <a href="#">Compatibility information – Combinability of UR20</a> <a href="#">CAD data – STEP</a> <a href="#">Quick start guide – Connecting u-remote UR20 via EtherCAT</a> <a href="#">Quick start guide – UR20-FBC-EC / UR20-1COM-SAI-PRO Quick Start Guide for Integration of SAI-Pro in EtherCAT</a> <a href="#">Application notes – UR20-FBC-EC Application Note for Integration of UR20 EtherCAT in CODESYS</a>
Engineering Data	<a href="#">WSCAD, Zuken E3.S, EPLAN</a>
Product Change Notification	<a href="#">Release-Notes - Firmware, ESI and Supported modules list</a>
Software	<a href="#">Firmware – Application_Note Firmwareupdate UR20 coupler_EN</a> <a href="#">Firmware – Application_Note Firmwareupdate UR20 coupler_DE</a> <a href="#">Library and function block – Language_Pack UR20_FBC</a> <a href="#">Firmware – Archiv Firmware files EtherCAT coupler HW1</a> <a href="#">Firmware – Current Firmware file EtherCAT coupler HW1</a> <a href="#">Device description – Archiv ESI files EtherCAT coupler HW1</a> <a href="#">Device description – Current ESI file EtherCAT coupler HW1</a> <a href="#">Firmware – Archiv Firmware files EtherCAT coupler HW2</a> <a href="#">Firmware – Current Firmware file EtherCAT coupler HW2</a> <a href="#">Device description – Archiv ESI files EtherCAT coupler HW2</a> <a href="#">Device description – Current ESI file EtherCAT coupler HW2</a> <a href="#">Driver – USB driver</a> <a href="#">Application notes – Use of UR20 Stations above 2000m sea level</a>
User Documentation	<a href="#">MAN_U-REMOTE_DE</a> <a href="#">MAN_U-REMOTE_EN</a> <a href="#">MAN_U-REMOTE_FS_DE</a> <a href="#">MAN_U-REMOTE_FS_EN</a> <a href="#">MAN_UR20_WEBSERVER_DE</a> <a href="#">MAN_UR20_WEBSERVER_EN</a> <a href="#">20211018.Security Advisory – Remote I/O fieldbus couplers (IP20) affected by INFRA:HALT vulnerabilities</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

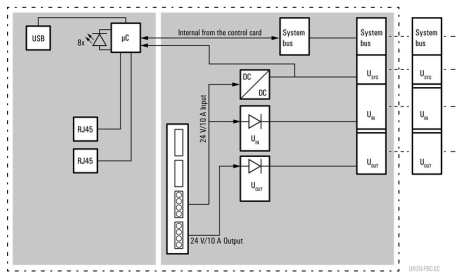
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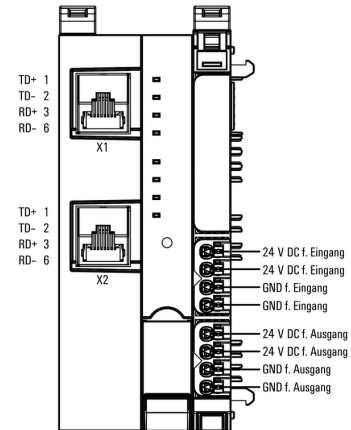
# Zeichnungen

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### Block diagram



### Connection diagram



### Explanation of abbreviations

#### Field bus coupler

