

IOT-GW30-4G-EU**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Features of IoT-Gateways**

- Enables machine data acquisition and provides access to field devices and PLC's via various protocols and interfaces
- Interfaces to your own IT systems as well as to common cloud systems
- Data traffic reduction through preprocessing on edge via the open IoT standard Node-RED
- Secure and easy remote maintenance with Weidmüller u-link Remote Access Service
- Integration of most common communication interfaces in small design
- Open programming platform Node-RED with strong community support

General ordering data

Version	IoT Gateway, Fast Ethernet, IP20, -20 °C...60 °C
Order No.	2682630000
Type	IOT-GW30-4G-EU
GTIN (EAN)	4050118691689
Qty.	1 pc(s).

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Depth	105 mm	Depth (inches)	4.134 inch
Height	125 mm	Height (inches)	4.921 inch
Width	35 mm	Width (inches)	1.378 inch
Net weight	500 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-20 °C...60 °C
Humidity	5 to 95 % (non-condensing)		

General data

Shock	according to IEC 60068-2-27
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Power supply

Connection type	1 removable 6-pin terminal block	
Current consumption	Voltage	24 V
	Current	0.24 A
Reverse polarity protection	Yes	
Voltage supply	24 V DC	
Voltage supply range	Voltage type	DC
	Voltage, min.	19.2 V
	Voltage, max.	28 V

System data

Memory (Flash)	4 GB	Memory (RAM)	1 GB, DDR3
Processor	Dual Core ARM Cortex A9, 600 MHz	Real-time clock	Capacity buffered (max. 5 days)

General specifications

Protection degree	IP20
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Mobile radio interface

Frequency band	LTE: 2100MHz (B1), 1800MHz (B3), 850MHz (B5), 2600MHz (B7), 900MHz (B8), 800MHz (B20), 2600MHz (B38), 2300MHz (B40), 2600MHz (B41), UMTS/WCDMA: 2100MHz (B1), 850MHz (B5), 900MHz (B8), GSM/GPRS/EDGE: 900MHz (B8), 1800MHz (B3)		
Transmission rate mobile radio	LTE category	CAT 4	
	Download rate, max.	150 Mbit/s	
	Upload rate, max.	50 Mbit/s	
Wireless module	LTE / HSPA+ multiband wireless module (4G / 3G / 2G) for fast wireless Internet access		

VPN

u-link	OpenVPN-based remote access service via the Weidmüller u-link cloud
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Technical data

EMC conformity and approvals

EMC standards	EN 61000-6-3, EN 61000-6-2	Shock	according to IEC 60068-2-27
Vibration	according to IEC 60068-2-6		

Environmental conditions

Humidity	5 to 95 % (non-condensing)	Operating temperature, max.	60 °C
Operating temperature, min.	-20 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

Guarantee

Time interval	2 years
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Interfaces

Connector for external antennas	2x SMA female	Digital inputs	2x, >10 V high, <3.6 V low; max. 30 V DC
Digital outputs	1x, 19.2 - 28 V high; max. 1 A	Ethernet ports	2
Number of SIM-Card slots	1	RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port
SIM-Card slot type	Micro-SIM	Serial port	1x RS232/RS485
USB port	1x USB 2.0 (Type A; max. 500 mA)		

Technical data

Housing main material	Metal	Protection degree	IP20
Speed	Fast Ethernet	Type of mounting	DIN rail

Classifications

ETIM 6.0	EC001099	ETIM 7.0	EC001099
ETIM 8.0	EC001099	ETIM 9.0	EC001099
ECLASS 9.0	19-17-01-00	ECLASS 9.1	19-17-01-00
ECLASS 10.0	19-17-05-90	ECLASS 11.0	19-17-05-90
ECLASS 12.0	19-17-05-90	ECLASS 13.0	19-17-05-90

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	05711a2b-ba3f-4f0d-9bb3-583a06111ef4

Approvals

ROHS	Conform
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Technical data

Downloads

Approval/Certificate/Document of Conformity

[Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)[Quick start guide – Quickstartguide IOT-GW30](#)[Quick start guide – Modbus - Understanding Coils and Register](#)[Quick start guide – IOT-GW30: CANopen communication with PROtop](#)[Application notes – 20220530_Statement_IOT_GW](#)[Quick start guide – IOT-SMS via IOT-GW30_4G](#)[Application notes – Installing and using Node-RED App on u-OS](#)[Setup of Procon Web ES on u-OS](#)[Application notes – Setup of Modbus TCP connection in CODESYS on u-OS](#)[Application notes – Setup of FTP client in CODESYS](#)[Application notes – UC-Codesys NVL in Node-RED](#)[Application notes – UR20-1COM-RSxxx-V1 -Setup of Modbus and Serial communication in CODESYS](#)[Application notes – UR20-1COM-RSxxx-V2 -Setup of Modbus and Serial communication in CODESYS](#)[Application notes – Use of Node-RED contrib OpcUa](#)

Product Change Notification

[Release notes - u-OS App PROCON-WEB ES](#)

Software

[Firmware – Current firmware u-create web](#)[Runtime Software – Archived CODESYS Control SL for Weidmueller u-OS Package](#)[Compatibility information – Archived u-OS App CODESYS Control SL Runtime](#)[Firmware – Upgrade firmware u-create web to u-OS](#)[Firmware – Downgrade firmware u-OS 2.1.x to u-create web 1.16.1](#)[Firmware – Archived firmware u-create web](#)[Runtime Software – u-OS App CODESYS Control SL Runtime](#)[Runtime Software – CODESYS Control SL for Weidmueller u-OS Package](#)[Application notes – Node-RED MultiFlow 1.0.0](#)

User Documentation

[Online help / Online documentation / Manual](#)[20210504 Security Advisory - Accidentally open network port in u-controls and IoT-Gateways](#)[20221214 Security Advisory - Multiple IoT and control products affected by JavaScript injection vulnerability](#)[uc documentation IOT-GW30](#)[Security Advisory - Multiple products affected by CodeMeter Runtime vulnerability](#)

Catalogues

[Catalogues in PDF-format](#)

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Accessories

u-link Remote Access Service



The Weidmüller u-link remote access service offers an easy possibility to securely access ethernet devices in a remote network.

With the u-link VPN Server as the central meeting point server, the VPN clients (service PC and Weidmüller u-link client devices) always connect outbound and thus conform to the typical IT security requirements. Separate database and server instances are used for each u-link customer account (secure client isolation) to ensure data integrity.

Communication between the u-link VPN server and remote clients (service PCs and u-link client devices) takes place via a certificate-protected openVPN connection. The u-link creed is "configuration instead of programming" the use is intuitive and does not require expert knowledge.

Featureset:

- 1-click VPN remote access for service PC's
- easyAccess: web, rdp or vnc connections to remote hosts fully browser based for use with tablet or smartphone
- Organization and Group Management
- Topologies including 3rd party end-devices
- Firmware management: Display of firmware status of all routers and the option of a time-controlled, automated firmware update
- Individual access rights: granular configuration of access rights to devices in the target network
- Extensive event log: Presentation of all activities in the u-link portal with extensive filter and export functions
- Password policy: Increased security through configurable specification of minimum requirements for password quality and validity period

Weidmüller offers the following usage variations and additional options for the u-link Remote Access Service:

Basic version:

- Automatically assigned by registering at u-link.weidmueller.com
- Free use for 6 months, extended to 365 days when registering a new u-link client device
- Full featureset
- Unlimited users
- Max. 50 u-link capable devices (access points to a remote network)
- 1 simultaneous VPN connection
- No data or speed limitations (subject to normal market usage)

Extensions

- Additional 50/100/250/500/1000 or more u-link capable devices
- Additional simultaneous VPN connections
- China-VPN: secure and reliable VPN connection to and from China

General ordering data April 27, 2024 8:29:08 AM CEST

Type	U-LINK-500-DEVICES-1Y	Version
Order No.	2status 20.04.2024 / We reserve the right to make technical changes	
GTIN (EAN)	configurable u-link clients on Weidmüller hardware to the basic	

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Type	U-LINK-100-DEVICES-1Y	Version
Order No.	2870100000	License code for u-link Remote Access Service., Adds 100 additional
GTIN (EAN)		configurable u-link clients on Weidmüller hardware to the basic
Qty.	1 pc(s).	license and extends the period of the basic license accordingly.
Type	U-LINK-50-DEVICES-1Y	Version
Order No.	2870090000	License code for u-link Remote Access Service., Adds 50 additional
GTIN (EAN)		configurable u-link clients on Weidmüller hardware to the basic
Qty.	1 pc(s).	license and extends the period of the basic license accordingly.
Type	U-LINK-250-DEVICES-1Y	Version
Order No.	2870110000	License code for u-link Remote Access Service., Adds 250 additional
GTIN (EAN)		configurable u-link clients on Weidmüller hardware to the basic
Qty.	1 pc(s).	license and extends the period of the basic license accordingly.
Type	U-LINK-1-CONNECTION-1Y	Version
Order No.	2870130000	"VPN connection" licence code for u-link Remote Access Service. Can
GTIN (EAN)		be used as an additional VPN connection or to extend the period of a
Qty.	1 pc(s).	VPN connection that has already been activated
Type	U-LINK-1000-DEVICES-1Y	Version
Order No.	2924220000	License code for u-link Remote Access Service., Adds 1000 additional
GTIN (EAN)		configurable u-link clients on Weidmüller hardware to the basic
Qty.	1 pc(s).	license and extends the period of the basic license accordingly.
Type	U-LINK-CNSERVER-1Y	Version
Order No.	2870140000	License code for u-link Remote Access Service., Allows the use of the
GTIN (EAN)		server in China for a secure and reliable VPN connection to and from
Qty.	1 pc(s).	China.

Mounting kit for 19" rack assembly

- For assembling DIN rail-based devices on 19" racks



General ordering data

Type	RM-KIT	Version
Order No.	1241440000	Kit for 19"-rack mounting
GTIN (EAN)	4050118029154	
Qty.	1 pc(s).	

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Accessories

Antennas and antenna accessories (coax cables and mounts)



Antennas and antenna accessories (coax cables and mounts)

- State-of-the-art antennas
- Industry proven
- Robust design (up to IP67 protection)
- For outdoor and indoor use
- Latest technology support
- Up to Wi-Fi 6 and Wi-Fi 6E (2.4 GHz, 5 GHz, 6 GHz)
- Up to 5G (NR) support (700 MHz - 3.8 GHz)
- Also support for other technologies (e.g. Bluetooth, GNSS, etc.)
- Appropriate coax cables at different lengths
- Suitable pole and wall mounts

General ordering data

Type	IE-CC-NM-RPSMAM-3M	Version
Order No.	2788050000	Antenna cable, Connection 1:, N male, Connection 2:, RP-SMA male,
GTIN (EAN)	4064675066316	Length: 3 mm
Qty.	1 pc(s).	
Type	IE-CC-NM-SMAM-1M	Version
Order No.	2788010000	Antenna cable, Connection 1:, N male, Connection 2:, SMA male,
GTIN (EAN)	4064675066279	Length: 1 m
Qty.	1 pc(s).	
Type	IE-CC-NM-RPSMAM-2M	Version
Order No.	1367110000	Antenna cable, Connection 1:, N male, Connection 2:, RP-SMA male,
GTIN (EAN)	4050118186376	Length: 2 m
Qty.	1 pc(s).	
Type	IE-CC-NM-SMAM-5M	Version
Order No.	2788030000	Antenna cable, Connection 1:, N male, Connection 2:, SMA male,
GTIN (EAN)	4064675066293	Length: 5 m
Qty.	1 pc(s).	
Type	IE-CC-NM-SMAM-3M	Version
Order No.	2788020000	Antenna cable, Connection 1:, N male, Connection 2:, SMA male,
GTIN (EAN)	4064675066286	Length: 3 m
Qty.	1 pc(s).	
Type	IE-CC-RPSMAM-RPSMAF-1M	Version
Order No.	2787950000	Antenna cable, Connection 1:, RP-SMA male, Connection 2:, RP-SMA
GTIN (EAN)	4064675066217	female, Length: 1 m
Qty.	1 pc(s).	
Type	IE-CC-NM-SMAM-6M	Version
Order No.	1491210000	Antenna cable, Connection 1:, N male, Connection 2:, SMA male,
GTIN (EAN)	4050118300758	Length: 6 m
Qty.	1 pc(s).	
Type	IE-ANT-CELL/WL-MB-MIMO- ...	Version
Order No.	2788090000	Omni-directional antenna, Cellular antenna, Wi-Fi antenna, Up to 5G
GTIN (EAN)	4064675066354	(NR), Up to Wi-Fi 6 & 6E (IEEE802.11ax), Linear, Vertical, 2x SMA
Qty.	1 pc(s).	male, 2x RP-SMA male, IP67, Impedance: 50 Ω
Type	IE-CC-SMAM-SMAF-1M	Version
Order No.	2787920000	Antenna cable, Connection 1:, SMA male, Connection 2:, SMA female,
GTIN (EAN)	4064675066088	Length: 1 m
Qty.	1 pc(s).	

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Type	IE-CC-NM-RPSMAM-4M	Version
Order No.	1367100000	Antenna cable, Connection 1:, N male, Connection 2:, RP-SMA male,
GTIN (EAN)	4050118186369	Length: 4 m
Qty.	1 pc(s).	
Type	IE-CC-NM-RPSMAM-5M	Version
Order No.	2788060000	Antenna cable, Connection 1:, N male, Connection 2:, RP-SMA male,
GTIN (EAN)	4064675066323	Length: 5 m
Qty.	1 pc(s).	
Type	IE-ANT-CELL-SISO-EO-SMAM	Version
Order No.	2788130000	Omni-directional antenna, Cellular antenna, Up to 5G (support for
GTIN (EAN)	4064675066392	frequencies below 2.7 GHz, e.g., bands n1, n2, n28), Vertical, SMA
Qty.	1 pc(s).	male, IP66, Impedance: 50 Ω
Type	IE-ANT-CELL-SISO-LO-NF	Version
Order No.	2788150000	Omni-directional antenna, Cellular antenna, Up to 5G (NR), Vertical, N
GTIN (EAN)	4064675066415	female, IP66, Impedance: 50 Ω
Qty.	1 pc(s).	
Type	IE-CC-NM-SMAM-2M	Version
Order No.	1491180000	Antenna cable, Connection 1:, N male, Connection 2:, SMA male,
GTIN (EAN)	4050118300741	Length: 2 m
Qty.	1 pc(s).	
Type	IE-CC-RPSMAM-RPSMAF-3M	Version
Order No.	2787960000	Antenna cable, Connection 1:, RP-SMA male, Connection 2:, RP-SMA
GTIN (EAN)	4064675066224	female, Length: 3 m
Qty.	1 pc(s).	
Type	IE-CC-RPSMAM-RPSMAF-5M	Version
Order No.	2787970000	Antenna cable, Connection 1:, RP-SMA male, Connection 2:, RP-SMA
GTIN (EAN)	4064675066231	female, Length: 5 m
Qty.	1 pc(s).	
Type	IE-CC-SMAM-SMAF-5M	Version
Order No.	2787940000	Antenna cable, Connection 1:, SMA male, Connection 2:, SMA female,
GTIN (EAN)	4064675066200	Length: 5 m
Qty.	1 pc(s).	
Type	IE-CC-NM-SMAM-4M	Version
Order No.	1491190000	Antenna cable, Connection 1:, N male, Connection 2:, SMA male,
GTIN (EAN)	4050118300734	Length: 4 m
Qty.	1 pc(s).	
Type	IE-CC-NM-RPSMAM-1M	Version
Order No.	2788040000	Antenna cable, Connection 1:, N male, Connection 2:, RP-SMA male,
GTIN (EAN)	4064675066309	Length: 1 m
Qty.	1 pc(s).	
Type	IE-ANT-CELL-MIMO-DO-SMAM	Version
Order No.	2788120000	Omni-directional antenna, Cellular antenna, Up to 5G (NR), Linear,
GTIN (EAN)	4064675066385	Vertical, 2x SMA male, IP67, Impedance: 50 Ω
Qty.	1 pc(s).	