

IE-SR-2TX-WL-4G-EU**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Weidmüller Industrial Security Routers**

- Secure networks
 - Stateful packet inspection Firewall
 - IP/Port- forwarding
 - Network segmentation
- Easy integration of machine networks into manufacturing networks through 1: 1 NAT
- Secure and easy remote maintenance with Weidmüller u-link remote access service
- Enable modular and future proof network architectures with static and dynamic routing
- Secure communication over the Internet by using IPsec and OpenVPN
- Reliable internet connection, even without on-site internet access, thanks to integrated 4G/LTE cellular modem
- Full flexibility thanks to Fast Ethernet and Gigabit Ethernet interfaces ranging from 2 up to 4 ports.

General ordering data

Version	Security/NAT/VPN/U-link Router, with integrated multi-band modem (4G/3G/2G), EU-model, Fast Ethernet, 2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485, IP30, -25 °C...70 °C
Order No.	2682560000
Type	IE-SR-2TX-WL-4G-EU
GTIN (EAN)	4050118692150
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	95 mm	Height (inches)	3.74 inch
Width	45 mm	Width (inches)	1.772 inch
Net weight	437 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity	5 to 95 % (non-condensing)		

Mobile radio interface

Frequency band	LTE-FDD: B1, B3, B7, B8, B20, B28A, LTE-TDD: B38, B40, B41, WCDMA: B1,B8, GSM: B3,B8		
Transmission rate mobile radio	LTE category	CAT 4	
	Download rate, max.	150 Mbit/s	
	Upload rate, max.	50 Mbit/s	
Wireless module	multi-band modem (4G/3G/2G), Region: EMEA		

EMC conformity and approvals

EMC standards	EN 55032, EN 55024, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 GHz: 3 V/m, IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms	Free fall	
Safety standard	SELV according to EN 62368-1, UL 61010-1, UL 61010-2-201	Shock	According to IEC 60068-2-31
Vibration	according to IEC 60068-2-6		according to IEC 60068-2-27

Environmental conditions

Humidity	5 to 95 % (non-condensing)	
Operating altitude	Altitude, max.	2,000 m
	Note	in acc. with UL
	Altitude, max.	6,000 m
	Note	for restrictions, see the manufacturer's declaration for operating altitude in section downloads
Operating temperature, max.	70 °C	
Operating temperature, min.	-25 °C	
Storage temperature, max.	85 °C	
Storage temperature, min.	-40 °C	

Guarantee

Time interval	5 years
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Technical data**Interfaces**

Connector for external antennas	2x SMA female, 1x RP-SMA female	Digital inputs	1x, 5 to 30 V for logic "1", 0 to 2 V for logic "0"
Digital outputs	1x, with a current capacity of 0.2 A at 30 V DC	Function reset button	<5 sec: System reboot and set LAN IP to factory Default, >5 sec: Factory default
Number of SIM-Card slots	2	Number of ports	2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485
SIM-Card slot type	Mini-SIM (ID-000 format)		

MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	355,921 h

Management features

Device configuration	Webbrowser (HTTP/HTTPS), SNMP v2c, Command Line Interface (Telnet/SSH), Upload of a configuration file via web-interface, SMS control commands	Monitoring function	SNMP v2c, Syslog, Event based warning via E-Mail, Event based warning via relay, Event based warning via SNMP trap, Event based warning via SMS, Device information and mobile radio status via SMS request
IP-address management	Static, DHCP-Client, DHCP-Server (pool-based), DHCP-Relay, DNS-Relay	Security functions	Access Control List (MAC-based) for WLAN Access Point mode
Time synchronization management	NTP server, NTP client	Operating modes	WLAN Access Point, WLAN Client, Virtual COM mode, TCP Server mode, TCP Client mode, UDP Server/Client mode

Power supply

Connection type	1 removable 4-pin terminal block	
Current consumption	Voltage	12 V
	Current	0.46 A
	Voltage	24 V
	Current	0.22 A
	Voltage	48 V
	Current	0.11 A
Overload current protection	Yes	
Reverse polarity protection	Yes	
Voltage supply	12/24/48 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af)	
Voltage supply range	Voltage type	DC
	Voltage, min.	10.8 V
	Voltage, max.	52.8 V

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Routing Features

Firewall functions	Stateful Packet Inspection Firewall (Layer-3)	NAT functions	Source / Destination NAT (Port / Host / Network)
Routing functions	IPv4 routing, Static and dynamic IP Routing	VPN functions	u-link client, OpenVPN (Server or Client), IPSec (Initiator or Responder)

Serial communication parameters

Baud rate	110 bit/s to 460800 bit/s	Data bits	7, 8
Parity	none, odd, even, Mark, Space	Stop bits	1, 2

Technical data

Housing main material	Metal	Protection degree	IP30
Speed	Fast Ethernet	Type of mounting	DIN rail, Wall mounting

Technology

Standard	IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, IEEE 802.3af for Power-over-Ethernet, IEEE 802.11b/g/n for Wireless LAN
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WLAN interface

Data security	64-bit and 128-bit WEP encryption, WPA/WPA2 Personal and Enterprise (IEEE 802.1X/RADIUS, TKIP and AES)		
Transmission rate WLAN	Standard	IEEE 802.11b	
	max.	11 Mbps	
	min.	1 Mbps	
	Standard	IEEE 802.11g	
	max.	54 Mbps	
	min.	6 Mbps	
	Standard	IEEE 802.11n	
	max.	150 Mbps	
	min.	6.5 Mbps	

Classifications

ETIM 6.0	EC001478	ETIM 7.0	EC001478
ETIM 8.0	EC001478	ETIM 9.0	EC001478
ECLASS 9.0	19-17-01-03	ECLASS 9.1	19-17-01-03
ECLASS 10.0	19-17-04-05	ECLASS 11.0	19-17-04-05
ECLASS 12.0	19-17-04-05	ECLASS 13.0	19-17-04-05

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

Important note

Product information	Not compatible with the SCM card IE-EBR-SMARTCARD-SR 2909820000.
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Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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www.weidmueller.com**Technical data****Approvals**

Approvals



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

Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity UK Declaration of Conformity RCM Declaration of Conformity Manufacturer's declaration for operating altitude
Engineering Data	CAD data – STEP
Product Change Notification	Firmware Release Notes ComServer/Modbus-Gateway Utility Release Notes
Software	Software – u-link VPN-Client Software – ComServer/Modbus-Gateway Utility (Virtual COM Port Driver) Firmware – Current Firmware
User Documentation	u-link EULA V3 EN (28.5.2018) Hardware Installation Guide User manual u-link EULA V4 EN (20.9.2023)
Catalogues	Catalogues in PDF-format

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www.weidmueller.com**Accessories****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

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

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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Accessories

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-BASIC-EXTENSION- ...	Version
Order No.	3024610000	License code for u-link Remote Access Service., Extends the period of
GTIN (EAN)		the basic license by 1 year.
Qty.		
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.

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-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-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

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Type	IE-ANT-WL-DB-SISO-LO-NF	Version
Order No.	2788110000	Omni-directional antenna, Wi-Fi antenna, Up to Wi-Fi 6 & 6E
GTIN (EAN)	4064675066378	(IEEE802.11ax), Vertical, N female, IP67, Impedance: 50 Ω
Qty.	1 pc(s).	
Type	IE-ANT-P-ABG-75-9-NF	Version
Order No.	1367140000	WLAN antenna, Directional antenna, Dual Band (2.4 GHz / 5 GHz),
GTIN (EAN)	4050118186338	Gain 9 dBi, Vertical, 1x N-type female, bottom, IP67, Impedance: 50 Ω
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).	