

**IE-SR-4TX-LTE/4G-EU****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, 4x RJ45 10/100BaseT(X), IP30, -30 °C...70 °C
Order No.	<a href="#">2751280000</a>
Type	IE-SR-4TX-LTE/4G-EU
GTIN (EAN)	4050118899962
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Depth	94.8 mm	Depth (inches)	3.732 inch
Height	134.5 mm	Height (inches)	5.295 inch
Width	29.9 mm	Width (inches)	1.177 inch
Net weight	213 g		

## Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-30 °C...70 °C
Humidity	5 - 90 %, no condensation		

## Mobile radio interface

Frequency band	EMEA, LTE: B1 (2100), B3 (1800), B7 (2600), B8 (900), B20 (800DD), UMTS/WCDMA: B1 (2100), B8 (900), GSM/GPRS/EDGE: B3 (1800), B8 (900)		
Mode of operation	Permanent connection, Manual connection control via web interface, Fallback		
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)		

## VPN

IPsec	Configurable as IPsec server or client	OpenVPN	Configurable as OpenVPN server or client (Layer 2 and Layer 3), Authentication via X.509 certificate, Tunnel support via HTTP proxy, Maximum 10 different client or server configurations
u-link	OpenVPN-based remote access service via the Weidmüller u-link cloud		

## Modes of operation

IP router	IP routing (IPv4, Layer-3) with SPI firewall (Stateful Packet Inspection), Static or dynamic routing, Supports RIPv2 / OSPF	Transparent bridge	4-port switch with additional Layer-2 filter
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## EMC conformity and approvals

EMC standards	EN 55032, EN 55024, EN 61000-6-2, EN 61000-6-4	Safety standard	UL 61010-1, UL 61010-2-201, EN 62368-1, EN 62311
Shock	according to IEC 60068-2-27	Vibration	according to IEC 60068-2-6
Wireless	EN 301 489-1, EN 301 489-52, EN 301 511, EN 301 908-1, EN 301 908-2		

## Environmental conditions

Humidity	5 - 90 %, no condensation
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Creation date June 4, 2024 3:40:01 PM CEST

Catalogue status 01.06.2024 / We reserve the right to make technical changes.

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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.	-30 °C	
Storage temperature, max.	85 °C	
Storage temperature, min.	-40 °C	

## Guarantee

Time interval	3 years
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## Interfaces

Connector for external antennas	1x SMA female	Digital inputs	1x, galvanically isolated, VPN-initiate: establishes a pre-configured VPN connection (24 V in), Cut: physically disconnects (Link Down) the WAN port (24 V in), Trigger pre-configured packet filter rules (24 V in)
Function reset button	Restoration of factory settings	LED indicator	Power: indicates power supply status, boot-up process, firmware update process, Status: indicates system status, VPN: indicates VPN tunnel status, LTE/4G: indicates mobile radio connection status, Port LED: Link/ACT, Speed (RJ45 port)
Number of SCM-Card slots	1	Number of SIM-Card slots	1
Number of ports	4x RJ45 10/100BaseT(X)	RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port
SCM-Card slot type	Smart Card (ID-000 format), Save and restore the configuration using smart card (memory chip)	SIM-Card slot type	Mini-SIM (ID-000 format)
Serial port	1x RS-485, 2-wire, galvanically isolated, 1 removable 3-pole terminal block		

## Management features

Device configuration	Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, Windows tool	Monitoring function	SNMP v1/v2c/v3, Syslog
IP-address management	Static, DHCP-Client, DHCP-Server (pool-based)	Security functions	IPv4 Stateful Packet Inspection Firewall (incoming/outgoing), NAT masquerading, 1:1 NAT, IP forwarding, Port forwarding
Time synchronization management	NTP client	Industrial protocol support	Modbus/TCP slave

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## Technical data

## Power supply

Connection type	1 removable 4-pin terminal block	
Current consumption	Voltage	24 V
	Current	0.8 A
Reverse polarity protection	Yes	
Voltage supply	24 V DC, 1 single input	
Voltage supply range	Voltage type	DC
	Voltage, min.	19.2 V
	Voltage, max.	28.8 V

## Technical data

Housing main material	Plastic	Protection degree	IP30
Speed	Fast Ethernet	Type of mounting	DIN rail

## 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	For the SCM card usage please check the compatibility list for suitable router models and hardware revisions found at the SCM card IE-EBR-SMARTCARD-SR 2909820000.
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## Approvals

Approvals



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

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Approval/Certificate/Document of Conformity	<a href="#">EU Declaration of Conformity</a> <a href="#">RCM Declaration of Conformity</a> <a href="#">UK Declaration of Conformity</a> <a href="#">Manufacturer's declaration for operating altitude</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">Firmware Release Notes</a>
Software	<a href="#">Software – u-link VPN-Client</a> <a href="#">Software – Router Search Utility</a> <a href="#">Device description – SNMP MIB file</a> <a href="#">Firmware – Current Firmware</a>
User Documentation	<a href="#">User Note - Secure Router Configuration</a> <a href="#">Hardware Installation Guide</a> <a href="#">u-link EULA V3 EN (28.5.2018)</a> <a href="#">Manual</a> <a href="#">u-link EULA V4 EN (20.9.2023)</a> <a href="#">Mandatory connection parameters for u-link VPN clients</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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[www.weidmueller.com](http://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.	<a href="#">1241440000</a>	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-50-DEVICES-1Y	Version
Order No.	2status01.06.2024 / 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-1-CONNECTION-1Y	Version
Order No.	<a href="#">2870130000</a>	"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-100-DEVICES-1Y	Version
Order No.	<a href="#">2870100000</a>	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-1000-DEVICES-1Y	Version
Order No.	<a href="#">2924220000</a>	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-500-DEVICES-1Y	Version
Order No.	<a href="#">2870120000</a>	License code for u-link Remote Access Service., Adds 500 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.	<a href="#">2870140000</a>	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.
Type	U-LINK-BASIC-EXTENSION- ...	Version
Order No.	<a href="#">3024610000</a>	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.	<a href="#">2870110000</a>	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.

## Ethernet



- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

## General ordering data

Type	VDATA CAT6	Version
Order No.	<a href="#">1348590000</a>	Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1,
GTIN (EAN)	4050118153002	802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4
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-ANT-CELL-MIMO-DO-SMAM	Version
Order No.	<a href="#">2788120000</a>	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).	
Type	IE-ANT-CELL-SISO-EO-SMAM	Version
Order No.	<a href="#">2788130000</a>	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/WL-MB-MIMO- ...	Version
Order No.	<a href="#">2788090000</a>	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-LO-NF	Version
Order No.	<a href="#">2788150000</a>	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-ANT-3G-806-2170-2-NF	Version
Order No.	<a href="#">1491160000</a>	Mobile radio antenna, Omni-directional antenna, Gain of up to 2 dBi,
GTIN (EAN)	4050118300710	Vertical, Linear, 1x N-type female, bottom, IP54, , Impedance: 50 Ω
Qty.	1 pc(s).	
Type	IE-ANT-3G-806-2500-4-NF	Version
Order No.	<a href="#">1491170000</a>	Mobile radio antenna, Omni-directional antenna, Gain of up to 4 dBi,
GTIN (EAN)	4050118300727	Vertical, Linear, 1x N-type female, bottom, IP66, , Impedance: 50 Ω
Qty.	1 pc(s).	