

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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Technical data

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 |
|----------|---|

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 Mbit/s | |
| | min. | 1 Mbit/s | |
| | Standard | IEEE 802.11g | |
| | max. | 54 Mbit/s | |
| | min. | 6 Mbit/s | |
| | Standard | IEEE 802.11n | |
| | max. | 150 Mbit/s | |
| | min. | 6.5 Mbit/s | |

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. |
|---------------------|--|

Creation date July 5, 2024 3:38:14 AM CEST

Catalogue status 29.06.2024 / 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) Mandatory connection parameters for u-link VPN clients |
| 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 2024 3:38:14 AM CEST

| | | |
|------------|---|---------|
| Type | U-LINK-1000-DEVICES-1Y | Version |
| Order No. | 2status 29.06.2024 / 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. | 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-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. |
| Type | U-LINK-500-DEVICES-1Y | Version |
| Order No. | 2870120000 | 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-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-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-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-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. |

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-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-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 |
| 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). | |
| 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). | |