

IE-SR-4GT-LTE/4G-USEMEA-M

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), Global-model, Gigabit Ethernet, 4x RJ45 10/100/1000BaseT(X), DNV, IP20, -25 °C...70 °C |
| Order No. | 2990440000 |
| Type | IE-SR-4GT-LTE/4G-USEMEA-M |
| GTIN (EAN) | 4099986863514 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 115 mm | Depth (inches) | 4.5275 inch |
| Height | 150 mm | Height (inches) | 5.9055 inch |
| Width | 55 mm | Width (inches) | 2.1654 inch |
| Net weight | 660 g | | |

Temperatures

| | | | |
|---------------------|---------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
| Humidity | 5 - 90 %, no condensation | | |

Environmental Product Compliance

| | | | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| RoHS Compliance Status | Compliant with exemption | | |
| RoHS Exemption (if applicable/known) | 6aI, 6c, 7a, 7cI, 7cII | | |
| REACH SVHC | Lead 7439-92-1, 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone 119313-12-1, 2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one 71868-10-5, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1, Lead monoxide 1317-36-8, Lead titanium trioxide 12060-00-3, N, N-dimethylacetamide 127-19-5 | | |

Mobile radio interface

| | | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Transmission rate mobile radio | LTE category | CAT 13 |
| | Download rate, max. | 400 Mbit/s |
| | Upload rate, max. | 150 Mbit/s |
| Mode of operation | Permanent connection, Manual connection control via web interface, Manual connection control via API or SMS, Fallback | |
| Wireless module | multi-band modem (4G/3G) | |
| Frequency band | Region: Global, 4G LTE: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B29, B32, B38, B39, B40, B41, B42, B43, B48, B66, B71, 3G UMTS/HSPA+: B1, B2, B4, B5, B6, B8, B9, B19 | |

EMC conformity and approvals

| | | | |
|-----------------|-------------------------------------------------|-------------------|----------------------------|
| EMC standards | EN 61000-6-4, EN 61000-6-2, FCC Part 15 Class B | Vibration | according to IEC 60068-2-6 |
| Shock | according to IEC 60068-2-27 | Ship use | DNV |
| Safety standard | EN 62368-1, EN 62311 | Security standard | EN 18031-1 |

Environmental conditions

| | | | |
|-----------------------------|---------------------------|-----------------------------|--------|
| Operating temperature, max. | 70 °C | Operating temperature, min. | -25 °C |
| Humidity | 5 - 90 %, no condensation | Storage temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C | | |

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Guarantee

Time interval 3 years

Interfaces

| | | | |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| RJ45 ports | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | Number of ports | 4x RJ45 10/100/1000BaseT(X) |
| Function reset button | Restoration of factory settings | Digital outputs | VPN-active: indicates an active VPN connection (24 V out), Alarm: indicates a configurable network state or fault (24 V out) |
| Digital inputs | galvanically isolated, Cut: physically disconnects (Link Down) the WAN port (24 V in), Trigger pre-configured packet filter rules (24 V in), VPN-initiate: establishes a pre-configured VPN connection (24 V in) | 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) | Connector for external antennas | 2x SMA female |
| USB port | USB 2.0 interface for firmware update or restoration of the device configuration via USB flash drive | Serial port | 1x RS-485, 2-wire, galvanically isolated, 1 removable 3-pin terminal block |
| Number of SIM-Card slots | 1 | Number of SCM-Card slots | 1 |
| LED indicator | Power: indicates power supply status, boot-up process, firmware update process, Status: indicates system status, VPN: indicates VPN tunnel status, Port LED: Link/ACT, Speed (RJ45 port) | | |

Management features

| | | | |
|-----------------------|----------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------|
| Device configuration | Webbrowser (HTTP/HTTPS), SNMP v3, Windows tool | Monitoring function | SNMP v3, Syslog, Event based warning via E-Mail, Event based warning via relay, Event based warning via SMS |
| IP-address management | Static, DHCP-Client, DHCP-Server (pool-based), DNS-Relay | Time synchronization management | NTP server, NTP client |

Power supply

| | | |
|-----------------------------|----------------------------------|--------|
| Reverse polarity protection | Yes | |
| Supply voltage | Galvanically isolated, 24 V DC | |
| Overload current protection | Yes | |
| Connection type | 1 removable 3-pin terminal block | |
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 19.2 V |
| | Voltage, max. | 28.8 V |
| Current consumption | Voltage | 24 V |
| | Current | 1.5 A |

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Voltage type DC

Routing Features

| | | | |
|---------------|---------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAT functions | Source / Destination NAT (Port / Host / Network) | Firewall functions | Stateful Packet Inspection Firewall (Layer-3), Transparent bridge mode (4-port switch with additional Layer-2 filter) |
| VPN functions | u-link client, OpenVPN (Server or Client), IPSec (Initiator or Responder) | Routing functions | IPv4 routing, IPv4 routing extended (each interface (LAN, WAN, optional cellular) can be configured as separate IP network), Static and dynamic IP Routing, RIPv2 / OSPF |

Technical data

| | | | |
|-----------------------|-----------|------------------|------------------|
| Housing main material | Aluminium | Type of mounting | DIN rail |
| Protection degree | IP20 | Speed | Gigabit Ethernet |

Technology

| | |
|----------|----------------------------------------------------------------------------------|
| Standard | IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, IEEE 802.3ab for 1000BASE-T |
|----------|----------------------------------------------------------------------------------|

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.

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001478 | ETIM 9.0 | EC001478 |
| ETIM 10.0 | EC001478 | ECLASS 14.0 | 19-17-04-05 |
| ECLASS 15.0 | 19-17-04-05 | | |

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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/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 ST | male, 2x RP-SMA female, IP67, 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 ST | |
| 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 ST | 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 ST | |

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

Accessories

General ordering data

| | | |
|------------|----------------------------|-----------------------------------------------------------------------|
| 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. | 1 ST | |
| 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 ST | 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 ST | 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 ST | license and extends the period of the basic license accordingly. |
| 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 ST | license and extends the period of the basic license accordingly. |
| 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 ST | 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 ST | 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 ST | 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 ST | |

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Accessories

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. | 1348590000 | 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 ST | | |

Industrial Security Router



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

| | | | |
|------------|----------------------------|-------------------|--|
| Type | IE-EBR-SMARTCARD-SR | Version | |
| Order No. | 2909820000 | Router smartcard, | |
| GTIN (EAN) | 4099986227361 | | |
| Qty. | 1 ST | | |