

IE-SR-4GT**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, Gigabit Ethernet, 4x RJ45 10/100/1000BaseT(X), IP20, -25 °C...70 °C
Order No.	2873910000
Type	IE-SR-4GT
GTIN (EAN)	4064675647676
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	115 mm	Depth (inches)	4.528 inch
Height	150 mm	Height (inches)	5.905 inch
Width	35 mm	Width (inches)	1.378 inch
Net weight	10 g		

Temperatures

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

VPN

IPsec	Configurable as IPsec server or client	OpenVPN	Configurable as OpenVPN server or client (Layer 2 and Layer 3)
u-link	OpenVPN-based remote access service via the Weidmüller u-link cloud		

Modes of operation

Extended IP router	Each interface (LAN, WAN, optional 4G/LTE) can be configured as separate IP network	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		

EMC conformity and approvals

EMC standards	EN 61000-6-4, EN 61000-6-2	Safety standard	UL 61010-1, UL 61010-2-201
Shock	according to IEC 60068-2-27	Vibration	according to IEC 60068-2-6

Environmental conditions

Humidity	5 - 90 %, no condensation		
Operating altitude	Altitude, max.	2,000 m	
	Note	in acc. with UL	
Operating temperature, max.	70 °C		
Operating temperature, min.	-25 °C		
Storage temperature, max.	85 °C		
Storage temperature, min.	-40 °C		

Guarantee

Time interval	3 years
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Interfaces

Digital inputs	2x, 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)	Digital outputs	Alarm: indicates a configurable network state or fault (24 V out), VPN-active: indicates an active VPN connection (24 V out), 1x
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, Port LED: Link/ACT, Speed (RJ45 port)
Number of SCM-Card slots	1	Number of ports	4x RJ45 10/100/1000BaseT(X)
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port, 10/100/1000BaseT(X)	SCM-Card slot type	Smart Card (ID-000 format), Save and restore the configuration using smart card (memory chip)
Serial port	1x RS-485, 2-wire, galvanically isolated, 1 removable 3-pole terminal block	USB port	USB 2.0 interface for firmware update or restoration of the device configuration via USB flash drive

MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	1,024,146 h

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 server, NTP client		

Power supply

Connection type	1 removable 4-pin terminal block	
Current consumption	Voltage	24 V
	Current	1.3 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

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

Technology

Standard	IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, IEEE 802.3ab for 1000BASE-T
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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	1bb4009c-24f3-4115-ab13-f6bde3580fe2
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl, 7cII

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

Downloads

Approval/Certificate/Document of Conformity	UK Declaration of Conformity EU Declaration of Conformity
Engineering Data	CAD data – STEP
Product Change Notification	Firmware Release Notes
Software	Software – u-link VPN-Client Current Firmware
User Documentation	u-link EULA V3 EN (28.5.2018) Hardware Installation Guide Manual u-link EULA V4 EN (20.9.2023) Mandatory connection parameters for u-link VPN clients
Catalogues	Catalogues in PDF-format

Creation date July 22, 2024 5:07:31 AM CEST

Catalogue status 13.07.2024 / We reserve the right to make technical changes.

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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 pc(s).	

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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General ordering data

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

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

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Accessories

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.
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-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-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-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.