IE-SR-4GT-M

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), DNV, IP20, -25 °C...70 °C
Order No.	2990450000
Type	IE-SR-4GT-M
GTIN (EAN)	4099986863521
Qty.	1 items

IE-SR-4GT-M

Technical data

Approvals

Approvals	CE DNV UKCA
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	560 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)	6al, 7a, 7cl, 7cll
REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

EMC conformity and approvals

EMC standards	EN 61000-6-4, EN 61000-6-2	Vibration	according to IEC 60068-2-6
Shock	according to IEC 60068-2-27	Ship use	DNV

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		

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	VPN-initiate: establishes a pre-configured VPN connection (24 V in), Cut: physically disconnects	SCM-Card slot type	Smart Card (ID-000 format), Save and restore the configuration using smart card (memory chip)

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Data sheet

IE-SR-4GT-M

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

	(Link Down) the WAN port (24 V in), Trigger pre-configured packet filter rules (24 V in), galvanically isolated		
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 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
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	1.3 A	
	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

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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 6.0	EC001478	ETIM 7.0	EC001478
ETIM 8.0	EC001478	ETIM 9.0	EC001478
ETIM 10.0	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	ECLASS 14.0	19-17-04-05
ECLASS 15.0	19-17-04-05		

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	

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	

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General ordering data

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