Weidmüller

IE-SR-4TX

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, Fast Ethernet, 4x RJ45 10/100BaseT(X), IP30, -30 °C...70 °C
Order No.	2751270000
Type	IE-SR-4TX
GTIN (EAN)	4050118899955
Qty.	1 pc(s).

IE-SR-4TX

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	175 g		

Temperatures

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

VPN

IPsec		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
	Configurable as IPsec server or client		
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

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
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	
	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

IE-SR-4TX

Technical data

Interfaces

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, Port LED: Link/ACT, Speed (RJ45 port)	Number of SCM-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)	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

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

IE-SR-4TX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

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.

Approvals

Approvals	CE cULus LISTED UKCA
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity RCM Declaration of Conformity UK Declaration of Conformity Manufacturer's declaration for operating altitude
Engineering Data	CAD data – STEP
Product Change Notification	Firmware Release Notes
Software	Software – u-link VPN-Client Software – Router Search Utility Device description – SNMP MIB file Firmware – Current Firmware
User Documentation	u-link Technical User Guide User Note - Secure Router Configuration Hardware Installation Guide u-link EULA V3 EN (28.5.2018) 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

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

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-500-DEVICES-1Y	Version
Order No.	2991220000	
GTIN (EAN)		

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Accessories

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-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-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.	
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-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-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	

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).		

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