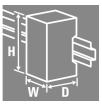
Data sheet

IE-SR-2TX-WL

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, Fast Ethernet, 2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485, IP30, -25 °C...70 °C
Order No.	2682590000
Type	IE-SR-2TX-WL
GTIN (EAN)	4050118692129
Qty.	1 items

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Technical data

Approvals

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

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	95 mm	Height (inches)	3.7401 inch
Width	45 mm	Width (inches)	1.7716 inch
Net weight	411 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity	5 to 95 % (non-condensing)		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
REACH SVHC	Lead 7439-92-1, Lead monoxide 1317-36-8
SCIP	9229992a-00b9-4096-8962-200a7f33e289

EMC conformity and approvals

Free fall	According to IEC 60068-2-31	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
Vibration	according to IEC 60068-2-6	Shock	according to IEC 60068-2-27
Safety standard	SELV according to EN 62368-1, UL 61010-1, UL 61010-2-201	Security standard	EN 18031-1

Environmental conditions

Operating temperature, max.	70 °C	
Operating temperature, min.	-25 °C	
Humidity	5 to 95 % (non-condensing)	
Storage temperature, max.	85 °C	
Storage temperature, min.	-40 °C	
Operating altitude	Altitude, max.	2000 m
	Note	in acc. with UL
	Altitude, max.	6000 m

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Technical data

	Note	for restrictions, see the manufacturer's declaration for operating altitude in section downloads	

Guarantee

Time interval	5 years

Interfaces

Number of ports	2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485	Function reset button	<5 sec: System reboot and set LAN IP to factory Default, >5 sec: Factory default
Digital outputs	1x, with a current capacity of 0.2 A at 30 V DC	Digital inputs	1x, 5 to 30 V for logic "1", 0 to 2 V for logic "0"
Connector for external antennas	1x RP-SMA female		

MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	381084 h

Management features

Device configuration	Webbrowser (HTTP/HTTPS), SNMP v2c, Command Line Interface (Telnet/SSH), Upload of a configuration file via web-interface	Monitoring function	SNMP v2c, Syslog, Event based warning via E-Mail, Event based warning via relay, Event based warning via SNMP trap
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

Reverse polarity protection	Yes	
Supply voltage	12/24/48 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af)	
Overload current protection	Yes	
Connection type	1 removable 4-pin terminal block	
Voltage supply range	Voltage type	DC
	Voltage, min.	10.8 V
	Voltage, max.	52.8 V
Current consumption	Voltage	12 V
	Current	0.22 A
	Voltage	24 V
	Current	0.11 A
	Voltage	48 V
	Current	0.07 A

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Technical data

Routing Features

NAT functions	Source / Destination NAT (Port / Host / Network)	VPN functions	u-link client, OpenVPN (Server or Client), IPSec (Initiator or Responder)
Routing functions	IPv4 routing, Static and dynamic IP Routing		

Serial communication parameters

Baud rate	110 bit/s to 460800 bit/s	Parity	none, odd, even, Mark, Space
Stop bits	1, 2	Data bits	7, 8

Technical data

Housing main material	Metal	Type of mounting	DIN rail, Wall mounting
Protection degree	IP30	Speed	Fast Ethernet

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

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
Data security	64-bit and 128-bit WEP encryption, WPA/WPA2 Personal and Enterprise (IEEE 802.1X/RADIUS, TKIP and AES)	

Important note

Product information	Not compatible with 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-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 ST	
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 ST	

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

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

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.