

Industrial Ethernet IE-SR-2GT-LTE/4G-US

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 Germany
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 www.weidmueller.com

Product image



High performance industrial-security router

- Variations with 2 or 6 Gigabit ports
- NAT masquerading, 1:1 network mapping and port forwarding
- VPN function (u-link Remote Access Service, OpenVPN and IPsec)
- Key switch function to control a WAN/VPN connection
- 6-port variations with expanded routing functionality
- Variations with integrated 4G/LTE modem for high-speed, internet-based mobile communications access
- Cost-efficient variation without VPN functionality for NAT and security applications (1489940000, IE-SR-2GT-LAN-FN)
- Variations with DNV-GL approval for use in a maritime environment

General ordering data

Type	IE-SR-2GT-LTE/4G-US
Order No.	2535780000
Version	Security/NAT/VPN/U-link Router, with integrated LTE / 4G modem, US model, Gigabit Ethernet, 2x RJ45 10/100/1000BaseT(X), IP20, -20 °C...70 °C
GTIN (EAN)	4050118547597
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Width	35 mm	Width (inches)	1.378 inch
Height	170 mm	Height (inches)	6.693 inch
Depth	140 mm	Depth (inches)	5.512 inch
Net weight	700 g		

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Technical data**Mobile radio interface**

Frequency band	Americas: LTE: Band 2 (1900 MHz), Band 4 (AWS) (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz G Block); CDMA EVDO Release 0 y EVDO Release A: BC0 (Cellular 800 MHz), BC1 (PCS 1900 MHz), BC10 (Secondary 800 MHz); UMTS: band 1 (2100 MHz); band 2 (1900 MHz); band 4 (AWS 1700/2100 MHz); band 5 (850 MHz); band 8 (900 MHz); GSM/GPRS/EDGE: Quad-Band (850/900/1800/1900 MHz)	Mode of operation	Permanent connection, Manual connection control via web interface, Fallback connection with active ICMP monitoring of the target IP via Ethernet
Standard	LTE: 3GPP Release 9, UMTS: 3GPP Releases 5, 6, 7, 8, GSM/GPRS/EDGE: 3GPP Release 99, GERAN Feature Package # 1, CDMA (Americas): TIA/EIA/IS-2000.1 through .6. cdma2000® Standards for Spread Spectrum Systems. Release 0. April 2000; TIA/EIA/IS-2000.1-1 through .6-1. cdma2000® Addendum 1 April 2000; TIA/EIA/IS-2000.1-2 through .6-2. cdma2000® Addendum 2 June 2001; TIA/EIA/IS-95-B. Mobile Station-Base Station Compatibility Standard for Dual-Mode Spread Spectrum Systems. December 4, 1998; TIA/EIA/IS-. cdma2000® High Rate Packet Data Air Interface Specification. Nov. 2000	Transmission rate	Max. download rate: 100 Mbps, Max. upload rate: 50 Mbps
Transmit power	LTE Bands 1, 2, 3, 4, 5, 8, 13, 17, 20, 25: +23 dBm ± 1 dB; LTE Band 7: +22 dBm ± 1 dB, UMTS Bands 1, 2, 4, 5, 8 : +23 dBm ± 1 dB, GSM850 CS and EGSM900 CS: +32 dBm ± 1 dB (mode GMSK) +27 dBm ± 1 dB (mode 8PSK), DCS1800 CS and PCS1900 CS: +29 dBm ± 1 dB (mode GMSK) +26 dBm ± 1 dB (mode 8PSK), CDMA: Band Class 0 (Cellular) +24 dBm +0.5/-1 dB; Band Class 1 (PCS) +24 dBm +0.5/-1 dB; Band Class 10 (Cellular) +24 dBm +0.5/-1 dB	Wireless module	LTE / HSPA+ multiband wireless module (4G / 3G / 2G) for fast wireless Internet access

Creation date May 2, 2020 6:44:55 AM CEST

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Network Services/Firewall/Management

Firewall	IPv4 Stateful Packet Inspection Firewall (incoming/outgoing), NAT masquerading, 1:1 NAT, Port forwarding, layer 2/3 filter (VLAN ID, VLAN QoS Tag, MAC address, EtherType frame), Auto-learning function to create packet filter rules (analysis of network traffic), Layer 2/3-based packet prioritisation (Ethernet Frame, IP Header, VLAN Tag)	Management	Configuration via WEB interface (HHTP/HTTPS), Language interface can be switched to German or English, Configuration support through detailed help information (tool tip), Configurable multi-user access with freely definable rights, Support for SNMP v1/v2/v3, event log/syslog
Network services	DHCP Server / DHCP Relay, DNS relay, NTP client, DynDNS (DHCP client acc. to RFC 2136)		

VPN

IPsec	Configurable as IPsec server or client, Authentication via PSK (userid, password) or X.509 certificates, Hardware-based encryption for faster data throughput, Maximum 64 simultaneous connections (sub-network to sub-network or as IPsec server), Encryption algorithms DES-56, 3DES-168, AES-128, AES-192, AES-256	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, Unlimited number of client connections in server mode
u-link	OpenVPN-based remote access service via the Weidmüller u-link cloud		

Miscellaneous

Diagnostics	Remote capture function for network diagnostics via a connected PC (Wireshark)	Modbus/TCP	Integrated Modbus-TCP server for status queries and software-based enabling/disabling of VPN connections
Monitoring	Client monitoring (per ICMP) with alarm function in the event of a fault		

Modes of operation

IP router	IP routing (IPv4, Layer-3) with SPI firewall (Stateful Packet Inspection)	Transparent bridge	2-port switch with additional layer-2 filter
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Data sheet

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EMC conformity and approvals

EMC standards	FCC Part 15, Class A, EN 61000-6-4, EN 61000-6-2	Safety standard	UL508
Shock	according to IEC 60068-2-27	Vibration	according to IEC 60068-2-6

Environmental conditions

Humidity	5 - 90 %, no condensation	Operating temperature, max.	70 °C
Operating temperature, min.	-20 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-20 °C		

Fibre optic transceiver characteristics

Transmission rate	Max. download rate: 100 Mbps, Max. upload rate: 50 Mbps
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Guarantee

Time interval	3 years
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Interfaces

Connector for external antennas	SMA (socket)	Digital inputs	Cut: physically disconnects (Link Down) the WAN port (24 V in), VPN-initiate: establishes a pre-configured VPN connection (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)	LED indicator	Indication of voltage status, Status, Section, Alarm, Active VPN connection, Mobile phone connection
Number of ports	2x RJ45 10/100/1000BaseT(X)	RJ45 ports	10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode
Reset button	Restoration of factory settings	USB port	USB 2.0 interface for firmware update or restoration of the device configuration via USB flash drive

Power supply

Current consumption	max. 0.6 A at 24 V DC	Voltage supply	1x 24 V DC (7 to 36 V DC), NEC class 2, (for use in conformity with UL specifications: 7 - 30 V DC)
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Technical data

Housing main material	diecast aluminium	Protection degree	IP20
Type of mounting	DIN rail, VESA 75		

Data sheet

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Classifications

ETIM 6.0	EC001478	ETIM 7.0	EC001478
eClass 9.0	19-17-01-03	eClass 9.1	19-17-01-03
eClass 10.0	19-17-04-05		

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity
Engineering Data	STEP
Product Change Notification	Firmware Release Notes
Software	SNMP MIB file u-link VPN-Client - Version 2.0.194 Router Search Utility Firmware - Version 3.5.0
User Documentation	Hardware Installation Guide Manual u-link Technical User Guide User Note - Secure Router Configuration

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Accessories

u-link Remote Access Service



The Weidmüller u-link remote access service is a web-based portal application to give service PCs simple and secure access to Ethernet devices in a remote network. VPN-supported remote access through a service PC is enabled with the u-link VPN server and a Weidmüller router located in the target network. The u-link VPN server acts as a central meeting point and connects a service PC (VPN client) to a router in the target network in order to reach the Ethernet devices that are connected to the router.

With the u-link VPN Server as the central meeting point server, the VPN clients (service PC and Weidmüller router) 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 routers) takes place via a certificate-protected openVPN connection.

Weidmüller offers the following usage variations and additional options for the u-link Remote Access Service:

Entry version

- Free use, no runtime limitation
- Max. 50 router objects (access points to a remote network)
- 2 simultaneous VPN through-connections per customer account

Standard version 50/150/300/500/other licence models on request

- Licence-dependent configuration from 50 up to 500 router objects (further license models on request)
- Extensive functional and performance features as compared with the entry version, such as
 - 3 simultaneous VPN through-connections per customer account (can be extended)
 - China-VPN: reliable VPN connection to and from China
 - 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

"Additional VPN connections" extension

- Licence code can be used with all standard versions
- Additional data volume with guaranteed bandwidth

Creation date May 2, 2020 6:44:55 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

General ordering data

Type U-LINK LIC STD 150 1X Version

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Accessories

Type	U-LINK-LIC-VPN-1Y	Version
Order No.	2447060000	"VPN connection" licence code for u-link Remote Access Service. Can
GTIN (EAN)	4050118461497	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
Type	U-LINK-LIC-STD-50-1Y	Version
Order No.	2665050000	"Standard 50" version software licence for u-link Remote Access
GTIN (EAN)	4050118682298	Service. Can be used to upgrade an entry version or to extend period
Qty.	1 pc(s).	of a "Standard 50" version"
Type	U-LINK-LIC-STD-300-1Y	Version
Order No.	2457840000	"Standard 300" version software licence for u-link Remote Access
GTIN (EAN)	4050118472844	Service. Can be used to upgrade an entry version or "Standard 150"
Qty.	1 pc(s).	version or to extend the period of a "Standard 300" version"
Type	U-LINK-LIC-STD-500-1Y	Version
Order No.	2457850000	"Standard 500" version software licence for u-link Remote Access
GTIN (EAN)	4050118472851	Service. Can be used to upgrade an entry version or "Standard
Qty.	1 pc(s).	150/300" versions or to extend period of a "Standard 300" version

Ethernet (Cat.6)



- 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, 1 A, According to IEC61643-21
GTIN (EAN)	4050118153002	
Qty.	1 pc(s).	

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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).	