IE-SR-6GT-LTE/4G-US

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

www.weidmueller.com

Product image



Weidmüller Industrial Security Routers

- Easy integration of subnets with identical IP address ranges through 1: 1 NAT
- Secure and easy remote maintenance with Weidmüller u-link remote access service
- Future-proof network connection with static and dynamic routing
- Increased network security through stateful inspection firewall, IP/Port- forwarding and network segmentation
- 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 6 ports.

General ordering data

Version	Security/NAT/VPN/U-link Router, with integrated multi-band modem (4G/3G/2G), US-model, Gigabit Ethernet, 6 * RJ45 10/100/1000BaseT(X), IP20, -20 °C...70 °C
Order No.	2535950000
Type	IE-SR-6GT-LTE/4G-US
GTIN (EAN)	4050118547627
Qty.	1 pc(s).
Replacement parts	1347870000 1347850000

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Technical data

Dimensions and weights

Depth	136 mm	Depth (inches)	5.354 inch
Height	170 mm	Height (inches)	6.693 inch
Width	57 mm	Width (inches)	2.244 inch
Net weight	1,000 g		

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

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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

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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

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)
Transparent bridge	6-port switch with additional Layer-2 filter		

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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		

Guarantee

Time interval	3 years

Interfaces

Connector for external antennas	2x SMA female	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)	Function reset button	Restoration of factory settings
LED indicator	Indication of voltage status, Status, CUT, Alarm, Active VPN connection, Mobile radio connection, Port LED: Link/ACT, Speed (RJ45 port)	Number of SCM-Card slots	1
Number of SIM-Card slots	1	Number of ports	6 * RJ45 10/100/1000BaseT(X)
RJ45 ports	10/100/1000BaseT(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)
SIM-Card slot type	Mini-SIM (ID-000 format)	Serial port	DB9 RS-232
USB port	USB 2.0 interface for firmware update or restoration of the device configuration via USB flash drive		

Power supply

Current consumption	Voltage	24 V
	Current	0.8 A
Voltage supply	24 V DC, 1 single input, NEC class 2, (for use in conformity with UL specifications: 7 - 30 V DC)	
Voltage supply range	Voltage type	DC
	Voltage, min.	7 V
	Voltage, max.	36 V

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

Classifications

ETIM 6.0	EC001478	ETIM 7.0	EC001478
ETIM 8.0	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		

Approvals

Approvals

ROHS	Conform
UL File Number Search	E141197

Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity
Engineering Data	STEP
Product Change Notification	Firmware Release Notes Product Change Notification IE-SR-2/6GT-series
Software	SNMP MIB file u-link VPN-Client - Version 2.0.194 Router Search Utility Firmware
User Documentation	Hardware Installation Guide Manual u-link Technical User Guide User Note - Secure Router Configuration
Catalogues	Catalogues in PDF-format