

## Industrial Ethernet IE-SR-2GT-UMTS/3G

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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### High-performance industrial security router with integrated firewall

- 2 gigabit ports (LAN/WAN)
- NAT masquerading, 1:1 network mapping and port forwarding
- VPN function (OpenVPN and IPsec)
- Key switch function for enabling/disabling the WAN/VPN connection
- Variant with integrated 3G/UMTS modem for high-speed, Internet-based mobile communications access (1345250000, IE-SR-2GT-UMTS/3G)
- Variant without VPN function for NAT and security applications (1489940000, IE-SR-2GT-LAN-FN)

#### General ordering data

Type	IE-SR-2GT-UMTS/3G
Order No.	<a href="#">1345250000</a>
Version	Security/NAT/VPN/U-link Router, with integrated UMTS / 3G modem, Gigabit Ethernet, 2x 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, IP20, -20 °C...70 °C
GTIN (EAN)	4050118149715
Qty.	1 pc(s).

## Data sheet

### Industrial Ethernet IE-SR-2GT-UMTS/3G

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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	1,013 g		

### 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 (HHTTP/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
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**Technical data****DSL and UMTS/HSPA**

DSL	Connection of DSL modem via LAN or WAN port, Free configuration of PPPoE access data	DynDNS	Support for automatic registration
UMTS/3G	Integrated quad-band UMTS/HSPA modem (only IE-SR-2GT-UMTS/3G version), GSM/GPRS/EDGE 850/900/1800/1900 MHz, UMTS/WCDMA/HSDPA/HSUPA 850/900/1900/2100 MHz, Peak Downlink 21.1 Mbps, Peak Uplink 5.76 Mbps, FCC, CE, IC, NCC, PTCRB, Bell, AT&T		

**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	Static or dynamic routing, Supports RIPv2 / OSPF	Transparent bridge	2-port switch with additional Layer-2 filter
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**EMC conformity and approvals**

EMC standards	FCC Part 15, Class A, EN 55032, EN 61000-4-2, -3, -4, -5, -6	Security	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
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### Interfaces

Connector for external antennas		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	SMA (socket) 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, Cut, Alarm, Active VPN connection and active UMTS connection
RJ45 ports	2x 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode	Reset button	Restoration of factory settings
SCM card reader	Save and restore the configuration using smart card (memory chip)	USB port	USB 2.0 interface for firmware update or restoration of the device configuration via USB flash drive

### MTBF

MTBF	103,080 hrs
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### Power supply

Current consumption	Supply voltage	1x 24 V DC (7 to 36 V DC), NEC class 2, (for use in conformity with UL specifications: 7 - 30 V DC)
0.6 A at 24 V DC		

### Technical data

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

### Classifications

ETIM 5.0	EC001478	ETIM 6.0	EC001478
eClass 6.2	19-17-01-03	eClass 7.1	19-17-01-03
eClass 8.1	19-17-01-03	eClass 9.0	19-17-01-03
eClass 9.1	19-17-01-03		

### Approvals

Approvals



ROHS	Conform
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**Technical data****Downloads**

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Approval/Certificate/Document of Conformity	<a href="#">DE_PN4800_161117_002.pdf</a>
Brochure/Catalogue	<a href="#">CAT 9 IETH 15/16 EN</a>
Product change notification	<a href="#">Firmware Release Notes</a> <a href="#">Changelog-IE-SR-2GT-LAN_FN_3G_V3.1.2_Build_77018</a>
Software	<a href="#">SNMP MIB file</a> <a href="#">u-link VPN-Client - Version 2.0.36</a> <a href="#">Router Search Utility</a> <a href="#">Firmware - Version 3.2.0</a>
User Documentation	<a href="#">Hardware Installation Guide</a> <a href="#">Manual</a> <a href="#">u-link Technical User Guide</a>

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## Accessories

### Mobile radio antennas and connection cables



Weidmüller Industrial Ethernet components are the perfect link the data communication between Ethernet enabled devices in industrial automation. By supporting various topologies and protocols, they can be used in many industrial applications.

As a complete provider of industrial network infrastructure for machine and equipment manufacture, we offer a wide range of switch products to suit the individual needs of our customers. In particular, Gigabit Switches (unmanaged and managed) and media converters, Power-over-Ethernet switches, WLAN modules and serial/Ethernet converters to meet the highest requirements and provide a reliable and flexible Ethernet communication. An extensive passive product portfolio consisting of RJ 45 and fibre optic connectors and cables make Weidmüller your partner for industrial Ethernet solutions.

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
IE-CC-NM-SMAM-2M	<a href="#">1491180000</a>	Antenna cable, Connection 1:, N-type male, Connection 2:, SMA plug, Length: 2 m	4050118300741	1 pc(s).
IE-ANT-3G-806-2170-2-NF	<a href="#">1491160000</a>	Omni-directional antenna, Mobile radio (GSM / UMTS), Gain of up to 2 dBi, Vertical, Linear, 1x N-type female, bottom, IP54, , Impedance: 50 Ω	4050118300710	1 pc(s).
IE-ANT-3G-806-2500-4-NF	<a href="#">1491170000</a>	Omni-directional antenna, Mobile radio (GSM / UMTS), Gain of up to 4 dBi, Vertical, Linear, 1x N-type female, bottom, IP66, , Impedance: 50 Ω	4050118300727	1 pc(s).
IE-CC-NM-SMAM-4M	<a href="#">1491190000</a>	Antenna cable, Connection 1:, N-type male, Connection 2:, SMA plug, Length: 4 m	4050118300734	1 pc(s).
IE-CC-NM-SMAM-6M	<a href="#">1491210000</a>	Antenna cable, Connection 1:, N-type male, Connection 2:, SMA plug, Length: 6 m	4050118300758	1 pc(s).

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### U-LINK licences



The Weidmüller u-link Remote Access Service allows an easy and secure access of Service PCs to remote Ethernet devices via the Internet.

The VPN-based access of a Service PC to remote devices will be provided by the web-based u-link Portal service (VPN server) and a Weidmüller Router (VPN client) located in a remote target network. The u-link VPN server is used as a meeting point and connects a Service PC to a Router (both running as VPN clients) to allow an encrypted data communication between the PC and remote Ethernet devices connected to the LAN port of the Router.

Using the u-link VPN server as public accessible meeting point both a Service PC and a Router only need to establish an outgoing VPN connection to the Internet which usually is allowed and compliant to IT security requirements.

For secure data integrity the u-link Remote Access Service uses for each u-link system account its own server and database instances (secure separation of u-link accounts). The data communication between an account specific u-link VPN server and remote clients (Service PCs and Router) is based on a certificate-secured OpenVPN communication (Encryption RSA 2048, x509 certificates).

The u-link Remote Access Service is offered to be used with following variants and additional options:

#### Entry-Version

- Can be used free of charge, no time limitation of use
- Maximum 50 Router objects configurable (Access points to a remote network)

#### Versions Standard 150/300/500/unlimited

- Configurable Router objects from 150 up to an unlimited number based on the used license version
- Advanced functions and features compared to the Entry-Version (see data sheets of Standard versions)

#### Additional VPN connection licenses

- License key useable for all Standard versions
- Additional data volume with guaranteed bandwidth

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
U-LINK-LIC-VPN-1Y	<a href="#">2447060000</a>	"VPN connection" licence code for u-link Remote Access Service. Can be used as an additional VPN connection or to extend the period of a VPN connection that has already been activated	4050118461497	1 pc(s).

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**Accessories**

U-LINK-LIC- STD-300-1Y	<a href="#">2457840000</a>	<p>"Standard 300" version 4050118472844 1 pc(s). software licence for u-link Remote Access Service. Can be used to upgrade an entry version or "Standard 150" version or to extend the period of a "Standard 300" version</p>
U-LINK-LIC- STD-150-1Y	<a href="#">2447050000</a>	<p>"Standard 150" version 4050118461602 1 pc(s). software licence for u-link Remote Access Service. Can be used to upgrade an entry version or to extend period of a "Standard 150" version</p>
U-LINK-LIC- STD-500-1Y	<a href="#">2457850000</a>	<p>"Standard 500" version 4050118472851 1 pc(s). software licence for u-link Remote Access Service. Can be used to upgrade an entry version or "Standard 150/300" versions or to extend period of a "Standard 300" version</p>

**Ethernet (Cat.6)**



- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE (acc. to IEEE 802.3af) and PoE+ (acc. to IEEE 802.3at)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
VDATA CAT6	<a href="#">1348590000</a>	Terminal rail fixing, Surge protection, 48 V, 60 V, 1 A, According to IEC61643-21	4050118153002	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	Order No.	Version	GTIN (EAN)	Qty.
RM-KIT	<a href="#">1241440000</a>	Kit for 19"-rack mounting	4050118029154	1 pc(s).