## Industrial Security Router

### Overview

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**Industrial Security Router introduction**

**Gigabit Industrial Security Router**
Secure data communication with integrated VPN technology

You want to be able to communicate with your machinery and systems securely, reliably, and from anywhere? Should only verified data gain access to your industrial network? Then the new Industrial Security Router from Weidmüller is just the right choice.

Due to the steady increase in networking data and information in office-based communication, a strong trend has evolved where the advantages of Ethernet communication are progressively being used in the area of industrial automation technology.

As well as the standardisation provided by Ethernet technology, vertical data integration from the field/production level across the office network to the Internet is an important driver for its rapid spread in industrial applications.

In addition to LAN switching technologies, we are seeing increased use of industrial routers for enhanced security and for efficient management of data traffic between LANs.

Routers with integrated VPN technologies are also ideally suited to secure remote access to components and systems in the LAN, via either a wired or wireless Internet connection.

As Weidmüller industrial security routers with VPN functionality support the u-link Remote Access Service, a remote access system can be set up easily and without the need for a certificate or IT knowledge.

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**Technical features of Weidmüller routers at a glance**

Compact and robust industrial-grade metal housing (aluminium die casting)

Gigabit Ethernet interfaces (LAN/WAN) for high data throughput

Digital inputs/outputs (24 V DC) with functions for disconnecting WAN port, indicating alarm status, starting/stopping of pre-configured VPN connections and indicating active VPN tunnel

Supports all standard router functions such as static/dynamic routing, SNMP, DHCP server, Dynamic DNS, event logging or DSL connection (PPPoE) via external DSL modem

Flexible configurable stateful inspection firewall with filter functions for both Layer 3 (IP layer) and Layer 2 (MAC address level)

Extensive configuration options for IP address mapping (1:1 NAT, virtual mapping/NAT masquerading/port-forwarding/IP address forwarding), e.g. for connecting multiple machine networks in the same IP address range into a primary production network.

Integrated VPN functionality (OpenVPN, IPsec and u-link) for secure remote access over the Internet. The router can be used with both VPN technologies, either as a VPN client or a VPN server, or simply with u-link Remote Access Service.

Variable bandwidth management by prioritising and limiting network traffic to IP and Ethernet protocol level

Variable user management through multiple user profiles with detailed assignment of rights

Integrated Modbus/TCP server for controlling and querying the status of the digital inputs and outputs and pre-configured VPN connections with Modbus/TCP-capable devices (e.g. PLC)

Client Monitoring for the monitoring of network devices

“Remote Capture” function for monitoring network traffic via Wireshark, (Network protocol analyser software)

LTE/4G variations
Additional integrated LTE/4G modem, for Internet connection via mobile communication with max. 100 Mbit/s download and 50 Mbit/s upload.
Securely integrate machines in a production network with Gigabit Ethernet

The router enables controlled and secure data exchange between “switched” Ethernet networks (IP routing). The various manifestations of the Network Address Translation function (1:1 NAT, masquerading, virtual mapping, port and IP forwarding) provide controlled access to both sub-networks as well as individual Ethernet devices. In addition, the 1:1 NAT function allows machine networks with the same IP address range to be easily integrated into a primary production network, as is typically the case in series machine manufacturing. The high-speed performance of the Gigabit interface means that the router will have no problems at all handling future increased data loads in the Ethernet network.

Remote access via secure VPN connections

Weidmüller Industrial Ethernet routers enable secure access to machines and systems via encrypted VPN connections. In this way, diagnostics and troubleshooting can be carried out regardless of location. In many cases, the requirement for a service technician to be on site is eliminated. Our routers support the standard VPN technologies OpenVPN and IPsec and can be operated as VPN client or VPN server without any limitation to the simultaneous clients.

In combination with the u-link Remote Access service, Weidmüller security routers enable easy and secure remote access to systems worldwide. All you need is a standard web browser. Simply register at www.u-link.weidmueller.de and you can immediately take advantage of a host of practical functions for convenient remote access – without the need for specific IT knowledge or the laborious processing of certificates.
Control and monitoring via integrated digital inputs and outputs

The router is equipped with 2 digital inputs (“Cut” and “VPN initiate”) and 2 digital outputs (“Alarm” and “VPN active”). The 24 V input “Cut” allows the RJ45 WAN port to be temporarily disabled, e.g. to prevent unauthorised access by third parties to the WAN network during maintenance work on the LAN network. The 24 V input “VPN initiate” enables a pre-configured VPN instance to be started or stopped (client or server). Connections can be initiated, for example, by an external key switch or via the digital output of a controller (PLC). Once a VPN tunnel is successfully established and activated it is indicated by the digital output “VPN active”. The 24 V output “Alarm” can be used to display the router’s configurable alarm conditions externally. An alarm can be triggered by a firewall rule or when a network device is no longer accessible (client monitoring).

Control and monitoring via SMS

Our mobile routers connect with up to three mobile phone numbers to send status information or receive control commands via SMS. The status parameter inform about system startup and mobile communication or VPN connections. Predefined SMS traps – which are triggered by the digital CUT or ALARM inputs – can be sent as well. The control function can establish mobile radio or VPN connections, initiate restarts, or set alarm outputs.

Intelligent Firewall: Stateful Packet Inspection

The integrated stateful inspection firewall is used to control incoming and outgoing traffic on all router interfaces (LAN, WAN, UMTS, VPN tunnels) on both Layer 2 (Ethernet frames) and Layer 3 (IP-based). An “auto-learning” function (“SecureNow!”) is also incorporated; this performs an automatic analysis of network traffic and generates a set of rules, which the user can then apply or modify as needed.
User-friendly configuration via web interface

The router can be configured using any standard browser. The clear menu structure provides easy-to-learn and intuitive user guidance. The user interface can be switched between German and English. Configuration support for users is provided by integrated online help (tool tips) with detailed instructions about the various settings. Profiles for different user groups (administrators, restricted users, etc.) can be created with detailed assignment of rights.

Router Search Utility – search for routers on the network

The freely available Weidmüller Router Search Utility software tool allows Weidmüller routers to be detected on the local network in the case of unrecognised IP addresses. For all devices found, the most important basic data such as network parameters, serial number, device name, etc. are displayed for device identification. In addition, the IP address of a router can be modified or the web interface of a selected router opened directly.
Industrial Security Router

**Gigabit Industrial Security Router**
- 2 or 6 Gigabit ports (LAN/WAN)
- NAT masquerading, 1:1 network mapping and port forwarding
- VPN function via u-link Remote Access Service, OpenVPN and IPsec
- Key switch function for disabling/enable of a WAN/VLAN connection
- Variations with 6 routed Ethernet sub networks and individual firewall rules
- Variations with integrated 4G/LTE modem for fast, Internet-based radio communication access
- Variation without VPN functionality for NAT and security applications (1489940000, IE-SR-26T-LAN-FN)

**Technical data**

### Operation modes

- **Extended IP router**: Each interface (LAN, WAN, optional 4G/LTE) can be configured as a separate IP network
- **IP router**: IP routing (IPv4, Layer 3) with SPI firewall (Stateful Packet Inspection)
- **Transparent bridge**: Port switch with additional Layer 2 filter

### Network Services

- **DHCP server / DHCP relay**
- **DNS relay**
- **NTP Client/Relay**
- **DynDNS (DHCP client by RFC 2183)**

### Firewall

- **IPv4 Stateful inspection firewall** (incoming/outgoing)
- **NAT/Masquerading**: 1:1 NAT, Portforwarding
- **Layer 2/3 filter** (VLAN ID, VLAN, QinQ tag, MAC address, EtherType frame)
- **Auto learning** feature to create packet filter rules (analysis of network traffic)
- **Layer 2/3 based packet prioritization** (Ethernet frame, IP header, VLAN tag)

### VPN functionality*

- **u-link**: OpenVPN-based remote access via Weidmüller u-link cloud
- **OpenVPN**: Can be configured as an OpenVPN server or client (Layer 2 and Layer 3)
- **Authentication with X.509 Certificates**
- **Tunnel support via HTTP proxy**
- **Maximum of 10 different client or server configurations**
- **Unlimited number of client connections in server mode**

### uPac

- **Can be configured as an uPac server or client**
- **PSK authentication (user ID, password)**
- **X.509 certificates**
- **Hardware-based encryption for faster data throughput**
- **A maximum of 64 simultaneous connections**
- **Encryption algorithms** DES-56, 3DES-192, AES 128, AES 192, AES 256

### Management

- **Configuration via Web Interface (HTTPS)**
- **Configuration support through detailed help information (tooltip)**
- **Configurable multi-user access with definable rights mask**
- **Support of SNMP v1/v2/v3, event log / syslog**

### Miscellaneous

- **Modbus/TCP**: Integrated Modbus TCP Server for status queries, and software-based activation / de-activation of VPN connections
- **Diagnosis**: Remote Capture feature for network diagnostics via a connected PC (Wireshark)
- **Monitoring**: Client Monitoring (via ICMP) with alarm function in case of error

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* is not supported by the model IE-SR-26T-LAN-FN

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**4G/LTE modem specification**

**Wireless module**: LTE/HSPA+/multiband radio module (4G/3G/2G)

- **Modes of operation**: Permanent connection
- **Manual connection control via web interface**
- **Fallback connection with active ICM monitoring**

**Transmission speed**: Max. download rate: 100 Mbit/s, Max. upload rate: 50 Mbit/s

**Standards**
- UMTS: 3GPP Releases 5, 6, 7, 8

**Frequency bands**

- **EU model**: LTE: 2100 MHz (B1), 1800 MHz (B3), 2600 MHz (B7), 900 MHz (B8), 800 MHz (B20); UMTS/WCDMA: 2100 MHz (B1), 1900 MHz (B2), 850 MHz (B5), 900 MHz (B8); GSM/GPRS/EDGE: Quad-Band (850/900/1800/1900 MHz)
- **US model**: 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 & Block); CDMA EVDO Release 0 and EVDO Release A: BOC (Cellular 800 MHz), B1C (PCS 1900 MHz), B1C (Secondary 800 MHz) UMTS: Band 1 (2100 MHz), Band 2 (1900 MHz), Band 4 (AWS) 1700/2100 MHz, Band 5 (850 MHz), Band 6 (800 MHz), GSM/GPRS/EDGE: Quad-Band (850/900/1800/1900 MHz)

**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 / GSM 900 CS and E-GSM900 CS: ±2 dBm ± 1 dB (GSM model) / ±2 dBm ± 1 dB (IP model) / DCs1800 CS and PCS1900 CS: ±26 dBm ± 1 dB (GSM model) / ±26 dBm ± 1 dB (IP model) / CDMA: Band Class D (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
Industrial Security Router

Interfaces

- RJ45 ports: 10/100/1000BaseT (X), auto negotiation, full/half duplex mode
- USB port: USB 2.0 interface for firmware update or restoration of the device configuration via USB flash drive

Digital outputs

- "Alarm" -> Indicates a configurable network status or error (24 V out)
- "VPN-active" -> Indicates an active VPN connection (24 V out)

Digital inputs

- "Out" -> Disconnects physically (link down) the WAN port (24 V)
- "VPN-initiate" -> Enables a pre-configured VPN connection (24 V)

Reset button: Restoring the factory default

Connection for external antennas: SMA (socket)

Power Requirements

- Input Voltage: 1x 24 V DC (7 to 30 V DC), NEC class 2, (for use in compliance with SE specification: 7 - 30 V DC)
- Current consumption: max. 0.8 A at 24 V

Technical data (housing)

- Housing: Diecast aluminum, IP20 protection
- Dimensions (W x H x D): 2-Port Router: 35 x 163 x 140 mm, 6-Port Router: 57 x 163 x 140 mm

Installation: DIN-Rail, VESA 75

Environmental Limits

- Operating temperature: -20 °C to +70 °C
- Storage Temperature: -20 °C to +85 °C
- Relative ambient air humidity: 5 to 95% (non-condensing)

Approvals

- Security: EN60950-1
- Radio: EN 301 489-1/17, EN 301 893, EN 302 291-2
- EMC: EN 61000-6-2/6-4
- CE Part 100 Class A
- Ship use: SINIGI (only for 2535980000, 2535970000)
- Shock: DIN EN 60068-2-27
- Vibration: DIN EN 60068-2-6

Warranty

- Warranty Period: 3 years

Ordering data

<table>
<thead>
<tr>
<th>Version</th>
<th>Type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security/NAT/VPN/u-link Router, 2 * RJ45 10/100/1000BaseT(X)</td>
<td>IE-SR-2GT-LAN</td>
<td>1345270000</td>
</tr>
<tr>
<td>Security/NAT, Router, 2 * RJ45 10/100/1000BaseT(X)</td>
<td>IE-SR-2GT-LAN-FN</td>
<td>1489940000</td>
</tr>
<tr>
<td>Security/NAT,VPN/u-link Router, integrated LTE/4G modem (US model), 2 * RJ45 10/100/1000BaseT(X)</td>
<td>IE-SR-2GTLTE/4G-US</td>
<td>2535780000</td>
</tr>
<tr>
<td>Security/NAT,VPN/u-link Router, integrated LTE/4G modem (EU model), 2 * RJ45 10/100/1000BaseT(X)</td>
<td>IE-SR-2GT-LTE/4G-EU</td>
<td>2535830000</td>
</tr>
<tr>
<td>Security/NAT,VPN/u-link Router, 6 * RJ45 10/100/1000BaseT(X)</td>
<td>IE-SR-6GT-LAN</td>
<td>2535940000</td>
</tr>
<tr>
<td>Security/NAT,VPN/u-link Router, integrated LTE/4G modem (US model), 6 * RJ45 10/100/1000BaseT(X)</td>
<td>IE-SR-6GT-LTE/4G-US</td>
<td>2535950000</td>
</tr>
<tr>
<td>Security/NAT,VPN/u-link Router, integrated LTE/4G modem (EU model), 6 * RJ45 10/100/1000BaseT(X)</td>
<td>IE-SR-6GT-LTE/4G-EU</td>
<td>2535960000</td>
</tr>
<tr>
<td>Security/NAT,VPN/u-link Router, 2 * RJ45 10/100/1000BaseT(X), ONV-GL approval</td>
<td>IE-SR-2GT-LAN-M</td>
<td>2535980000</td>
</tr>
<tr>
<td>Security/NAT,VPN/u-link Router, integrated LTE/4G modem (EU model), 2 * RJ45 10/100/1000BaseT(X), ONV-GL approval</td>
<td>IE-SR-2GT-LTE/4G-EU-M</td>
<td>2535970000</td>
</tr>
</tbody>
</table>

2596860000

UL-us Listed
u-link Remote Access Service
Convenient remote access, simple and secure

Whether product characteristics, costs, supply chains, or quantities: the customer requirements change and manufacturing companies have to accommodate changes more and more quickly. Although processes are becoming more flexible as a result of increasing automation and smarter software, the complexity of the systems and the demands on the productivity of the machine park are growing as well. System malfunctions and unplanned downtimes are serious problems, which often only the manufacturer’s specialists can solve. Usually, an on-site visit by a technician is required. As a result, costs rise, downtime extends, and production resources tie up. When spare parts have to be ordered, downtime extends even more. Any delays and their accumulation are pricy and lead to customers’ dissatisfaction.

Remote access to machines and systems facilitates immediate identification of most faults and their causes. You can frequently correct errors directly from your desk, without delay. Remote access via secure VPN connections establishes within a few seconds. Faster service and lowers costs will improve customers’ satisfaction. But the remote access to machines and systems usually requires a complex, time-consuming set-up. It also requires a targeted and secure-functional connection to the IT systems in the network. These two factors make the global networking of systems a major hurdle for users.

u-link enables particularly fast, uncomplicated and secure access to machines and systems. It facilitates maintenance and repair operations and allows efficient management of production systems such as user clients. With u-link’s intuitive interface, you can quickly and easily configure u-link and adapt it to your process structures. Our innovative service includes an online platform which ensures the conformity of various IT systems for remote access.
One single tool for all cases
Advanced functions for convenient remote access management

Its unique features make u-link the base for a cost-effective and secure setup even of extensive remote access topologies. With its intuitive, precise structure, you can efficiently manage multiple production facilities and users. You can add an unlimited number of supplementary routers to optimally fit u-link to the needs of your company.

u-link allows LAN-side connections to Weidmüller VPN router networks to facilitate access and management of various network-compatible devices like u-remote. You can quickly and easily configure devices, carry out control programming and optimisation, perform maintenance, or transmit image sequences.

Easy system access
u-link is the perfect remote access solution for machine builders and plant operators because it enables high productivity without IT knowledge. u-link can scale up indefinitely to grow with your plant inventory. Distinct displays and lists enable detailed, complete documentation of all router accesses, service calls, and data transmissions.

Individual system management
u-link can manage users and groups as well as their access rights according to individual specifications. These include group allocation and access permission to production facilities.

Low configuration effort
With the intuitive user interface and without specific IT knowledge, you can easily connect routers and clients to each other. With u-link, you can quickly establish a several systems network.

Secure remote access and remote diagnosis
Remote access to machines and systems is provided worldwide everywhere via secure VPN connection. The high availability of the servers grants secure access to your systems at all times.

Status monitoring and status message
Weidmüller Heartbeat can be used to report the availability of a router to u-link. It facilitates status monitoring and enables status messages from the installed router.

www.u-link.weidmueller.com

Try the u-link entry version FREE OF CHARGE!
u-link is that simple
Four steps to remote access

The u-link Remote Access Service operates from a central meeting point server. Clients – such as service PCs and routers – may network via outgoing connections to the meeting point. A high security level can be maintained, when no incoming connections are allowed. At the same time, flexibility is ensured because the routers do not require static IP addresses. The individual clients may interconnect into a single connection via the www.u-link.weidmueller.com portal. u-link also allows multiple service PCs to connect to a router simultaneously. Individual user groups can be assigned specific IP addresses to provide access to authorised persons only.

The setup steps:
The initial setup works in 4 steps
1. Create an account
2. Install and register the client
3. Register router
4. Connect

The router is registered by entering an activation code. A few mouse clicks are all it takes to set up the connection.
Simple-secure-u-link
The holistic security concept for your networks

- u-link uses X.509 certificates for meeting point server authentication; these certificates are generated locally on the devices and are not transferred
- 2048-bit keys secure protection
- The u-link web portal is protected by a TLS/SSL connection and 2-factor authentication
- u-link uses outbound connections only. This avoids allowance of incoming connections in the firewall, and remote access does not require a static IP address
- u-link is firewall-friendly since only port 443 is used
- u-link accepts only unique, one-time activation codes for clients
- u-link’s user and rights management prevents unwanted access
- u-link offers a customisable password policy
- u-link connections, when not in use, are terminated automatically
- Weidmüller VPN routers have a digital input to enable or disable remote access
- The routers maintain the latest security level via a remote firmware update
- Each VPN router has a high-performance firewall with self-learning function “SecureNow!”
License overview and features
Always the right package for your application

u-link has a free entry version with which you can get to know the system. The standard versions are valid for one year and offer many other features that simplify the use of remote access.

The standard version accepts additional routers and several simultaneous connections at a high data transmission rate. You can even establish a safe tunnel connection to China. The firmware and update management shows the current firmware version of your routers and gives the possibility to update them regularly via remote access to ensure permanent protection of your system. The rights management down to IP level and the possibility to create device templates are also included in the standard version. An extensive log functionality, a password policy, and an exclusive connection mode, which prevents multiple users from connecting to a router at the same time, supplement the standard features.

<table>
<thead>
<tr>
<th>Function</th>
<th>Entry</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period</td>
<td>Unrestricted</td>
<td>1 Year</td>
</tr>
<tr>
<td>Maximum number of routers</td>
<td>50</td>
<td>150 / 300 / 500 or unrestricted</td>
</tr>
<tr>
<td>Maximum number of contactable end devices</td>
<td>Unrestricted</td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Maximum number of users</td>
<td>Unrestricted</td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Costs</td>
<td>Free of charge</td>
<td>On request</td>
</tr>
<tr>
<td>Number of simultaneous VPN connections</td>
<td>2</td>
<td>3, extendable</td>
</tr>
<tr>
<td>Transmission speed</td>
<td>Max 500 kbit/s</td>
<td>1 Mbit/s</td>
</tr>
<tr>
<td>Monthly data volume</td>
<td>≤ 1 Gbyte with max 500 kbit/s</td>
<td>≤ 5 Gbyte unrestricted &gt; 1 Gbyte with max 64 kbit/s</td>
</tr>
<tr>
<td>Connections from and to China</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Firmware and update management</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Topological order</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Creation of user groups</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Visibility of devices per group</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Access rights for devices per IP and group</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Device templates</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection log</td>
<td>Basic functions</td>
<td>Extended functions</td>
</tr>
<tr>
<td>Activity log</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Password guideline</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Exclusive connection mode</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
u-link licences

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

Entry version
• Free-of-charge usage, no period restriction
• Max. 50 router objects (access points on a remote network)

Standard 150/300/500 version
• Licence-dependant configuration of 150, 300, 500 router objects*  
• Comprehensive extended function and performance characteristics compared with the entry version

Extension for additional VPN connections
• Licence code can be used for all Standard versions  
• Additional data volumes with guaranteed bandwidth

Technical data

<table>
<thead>
<tr>
<th>Functions and performance characteristics / Standard licence</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of configurable user objects (service PC)</td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Number of configurable router objects (access points remote network)</td>
<td>depends on licence (150, 300, 500,...)*</td>
</tr>
<tr>
<td>User organisation</td>
<td>Organisation of service users in groups, assignment of selective access rights to device topology, group-dependent assignment of rights re. device configuration and user administration</td>
</tr>
<tr>
<td>Device management</td>
<td>Illustration of the device infrastructure (remote access objects) in a clearly defined tree structure via location, group and device objects</td>
</tr>
<tr>
<td>Simultaneously usable pass-through VPN connections</td>
<td>3 (can be extended by adding on other pass-through VPN connections)</td>
</tr>
</tbody>
</table>
| Period                                                     | 1 year from activation of the licence key. When extending a “Standard 150/300/500” version, the validity period is extended by 1 year from the expiry date of the current period, but not less than 1 year.  
Note: When the validity period has expired, automatic reduction of the bandwidth to the values of the free-of-charge entry version (< 1 GB with max. 600 kbit/sec; > 1 GB with max. 64 kbit/sec) |
| Monthly data volume and bandwidth                         | < 5 GB with max. 1 Mbit/s; > 5 GB with max. 500 Kbit/s; increase by 1 GB/month with 1 Mbit/s per added-on pass-through VPN connection, for data volume > 12 GB/month max. 500 Kbit/s |
| Usage information                                          | Extended reporting and statistical information (detailed statement, usage duration, data volume) |
| System availability                                        | > 99.9% |

<table>
<thead>
<tr>
<th>Functions and performance characteristics / VPN licence</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of additional VPN connections (per licence code)</td>
<td>1 pass-through VPN connection for service PC &lt;= u-link &lt;= router/ target network</td>
</tr>
<tr>
<td>VPN channel bandwidth</td>
<td>1 Mbit/s</td>
</tr>
<tr>
<td>Extension of data volume</td>
<td>Data volume of the u-link client account increased by 1 GB/month with a bandwidth of 1 Mbit/s</td>
</tr>
<tr>
<td>Period</td>
<td>1 year from activation of the licence key. When extending a VPN licence that has already been activated, the validity period is extended by 1 year from the expiry date of the current period, but not less than 1 year.</td>
</tr>
<tr>
<td>Usage</td>
<td>Use an additional VPN channel or to extend the period of a VPN channel. Can be used within the scope of all standard versions (not for entry version).</td>
</tr>
</tbody>
</table>

System requirements

<table>
<thead>
<tr>
<th>Hardware (service PC)</th>
<th>PC with Windows 7, 8 or 10 operating system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware, remote target network</td>
<td>Weidmüller router (except K-GR-S20/2 LAN-FN; 1489940000), u-link VPN access integrated in firmware (from V3.0.1)</td>
</tr>
<tr>
<td>Portal administration</td>
<td>Standard browser (IE, Edge, Chrome, Firefox) via an HTTPS connection (SSL), login via username and password</td>
</tr>
<tr>
<td>VPN software (service PC)</td>
<td>u-link VPN Client (installation on PC)</td>
</tr>
</tbody>
</table>

Miscellaneous

| Activation | Client account administrator enters the licence key in the u-link portal (functions immediately available) |
| Included in delivery | Letter with licence key |

Ordering data

<table>
<thead>
<tr>
<th>Version</th>
<th>Type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Standard 150” version software licence for u-link Remote Access Service. Can be used to upgrade an entry version or to extend the period of a “Standard 150” version</td>
<td>U-LINK.LIC-STD-150 TY</td>
<td>2447060000</td>
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<td>“Standard 300” version 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</td>
<td>U-LINK.LIC-STD-300 TY</td>
<td>2457840000</td>
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<tr>
<td>“Standard 500” version software licence for u-link Remote Access Service. Can be used to upgrade an entry version or “Standard 150/300” versions or to extend the period of a “Standard 300” version</td>
<td>U-LINK.LIC-STD-500 TY</td>
<td>2457850000</td>
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<tr>
<td>“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</td>
<td>U-LINK.LIC/VPN TY</td>
<td>2447060000</td>
</tr>
</tbody>
</table>

Note: * Licence models with more than 500 configurable router objects are available upon request.

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