

Reliable Internet Connection
 Reliable Internet connection thanks to integrated 4G/LTE mobile modem

WLAN Interface
 Also for use as a service access point

Remote Access Service
 Secure remote access with VPN



Configuration
 Extensive configuration options for IP address mapping

Internet Communication
 Secure Internet communication thanks to IPsec and OpenVPN

Industrial Security Routers

Secure, Smart, Scalable.

Ethernet technology is reshaping the world of industrial automation. Stay ahead with our innovative solutions designed for the modern industry. These routers are the perfect choice for remote secured data communication from factory floor PLCs, machines, networking devices, and sensors. The routers are equipped with high-grade encryption and built in firewall protection, to keep industrial data safe from cyber threats.

Integrated VPN Technology:

Secure remote access to systems, components, and data is at your fingertips. Whether you're connecting across the plant or from across the globe, you'll experience reliable, secure communication.

Seamless Remote Management with u-link:

- Our u-link Remote Access Service lets you monitor and manage your industrial networks from anywhere.
- The user-friendly interface simplifies remote system setup, with no complex IT skills required.
- Instantly troubleshoot, diagnose, and resolve issues to minimize downtime and keep production flowing smoothly.

Flexible Connectivity Options:

Choose between wired LAN or wireless connectivity. Our routers support a variety of industrial protocols, making integration with existing systems seamless and straightforward.

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2 / 4 Port Fast Ethernet Industrial Security Router

- Easy integration of subnets with identical IP address ranges through 1:1 NAT
- Secure and easy remote maintenance with Weidmuller 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
- Reliable internet connection, even without on-site internet access, thanks to integrated 4G/LTE cellular modem



Ordering data	Type	Order No.	Qty.	Type	Order No.	Qty.	Type	Order No.	Qty.
	IE-SR-2TX-WL-4G-US-V	2682580000	1	IE-SR-4TX-LTE-/4G-USEMEA	2739630000	1	IE-SR-4GT-LTE-/4G-USEMEA	2873930000	1
Description	Security/NAT/VPN/u-link Router, with integrated multi-band modem (4G/3G), North American variant, Fast Ethernet, 2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485, IP30, -25 °C...70 °C			Security/NAT/VPN/u-link Router, with integrated multi-band modem (4G/3G), US/EMEA-model, Fast Ethernet, 4x RJ45 10/100BaseT(X), IP30, -30 °C...70 °C			Security/NAT/VPN/u-link Router, with integrated multi-band modem (4G/3G), US/EMEA-model, Gigabit Ethernet, 4x RJ45 10/100/1000BaseT(X), IP20, -25 °C...70 °C, can be configured as a Layer 3 switch		
Management features	Web browser (HTTP/HTTPS), SNMP v2c, Command Line Interface (Telnet/SSH), Upload of a configuration file via web interface, SMS control commands			Web browser (HTTP/HTTPS), SNMP v1/v2c/v3, Windows tool			Web browser (HTTP/HTTPS), SNMP v1/v2c/v3, Windows tool		
Monitoring function	SNMP v2c, Syslog, Event based warning via E-Mail, Event based warning via relay, Event based warning via SNMP trap, Event based warning via SMS, Device information and mobile radio status via SMS request			SNMP v1/v2c/v3, Syslog, Event based warning via E-Mail			SNMP v1/v2c/v3, Syslog		
IP-address management	Static, DHCP-Client, DHCP-Server (pool-based), DHCP-Relay, DNS-Relay			Static, DHCP-Client, DHCP-Server (pool-based)			Static, DHCP-Client, DHCP-Server (pool-based)		
Security functions	Access Control List (MAC-based) for WLAN Access Point mode			IPv4 Stateful Packet Inspection Firewall (incoming/outgoing), NAT masquerading, 1:1 NAT, IP forwarding, Port forwarding			IPv4 Stateful Packet Inspection Firewall (incoming/outgoing), NAT masquerading, 1:1 NAT, IP forwarding, Port forwarding		
Time synchronization management	NTP server, NTP client			NTP server, NTP client			NTP server, NTP client		
Modes of operation									
Firewall functions	Stateful Packet Inspection Firewall (Layer-3)			Stateful Packet Inspection Firewall (Layer-3)			Stateful Packet Inspection Firewall (Layer-3)		
NAT functions	Source / Destination NAT (Port / Host / Network)			NAT, masquerading, 1:1 NAT			NAT, masquerading, 1:1 NAT		
Routing functions	IPv4 routing, Static and Dynamic IP Routing			IP routing (IPv4, Layer-3) with SPI firewall (Stateful Packet Inspection), Static or Dynamic routing, Supports RIPv2 / OSPF			IP routing (IPv4, Layer-3) with SPI firewall (Stateful Packet Inspection), Static or Dynamic routing, Supports RIPv2 / OSPF		
VPN functionality	u-link client, OpenVPN (Server or Client), IPsec (Initiator or Responder)			u-link client, OpenVPN (Server or Client), IPsec (Initiator or Responder)			u-link client, OpenVPN (Server or Client), IPsec (Initiator or Responder)		
Operating modes	WLAN Access Point, WLAN Client, Virtual COM mode, TCP Server mode, TCP Client mode, UDP Server/Client mode			Permanent connection, Manual connection control via web interface			Permanent connection, Manual connection control via web interface		
Interfaces									
Number of ports	2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485			4x RJ45 10/100BaseT(X) auto negotiation, Full/half-duplex mode, Auto MDI/MDI-X port			4x RJ45 10/100/1000BaseT(X)		
Digital outputs	1x, with a current capacity of 0.2 A at 30 V DC			Alarm: indicates a configurable network state or fault (24 V out), VPN-active: indicates an active VPN connection (24 V out), 1x			Alarm: indicates a configurable network state or fault (24 V out), VPN-active: indicates an active VPN connection (24 V out), 1x		
Digital inputs	1x, 5 to 30 V for logic "1", 0 to 2 V for logic "0"			1x, galvanically isolated, VPN-initiate: establishes a pre-configured VPN connection (24 V in), Cut: physically disconnects (Link Down) the WAN port (24 V in), Trigger pre-configured packet filter rules (24 V in)			2x, galvanically isolated, VPN-initiate: establishes a pre-configured VPN connection (24 V in), Cut: physically disconnects (Link Down) the WAN port (24 V in), Trigger pre-configured packet filter rules (24 V in)		
Function reset button	<5 sec: System reboot and set LAN IP to factory Default, >5 sec: Factory default			Restoration of factory settings			Restoration of factory settings		
Number of SIM-Card slots	2			1			1		
Connector for external antennas	2x SMA female, 1x RP-SMA female			1x SMA female			2x SMA female		
Serial port	Baud rate: 110 bit/s to 460800 bit/s. Data bits: 7, 8 Parity: none, odd, even, Mark, Space. Stop bits: 1, 2			1x RS-485, 2-wire, galvanically isolated, 1 removable 3-pole terminal block			1x RS-485, 2-wire, galvanically isolated, 1 removable 3-pole terminal block		
Wireless data security	64-bit and 128-bit WEP encryption, WPA/WPA2 Personal and Enterprise (IEEE 802.1X/RADIUS, TKIP and AES)			-			-		
Transmission rate WLAN	IEEE 802.11b: 1...11Mbps IEEE 802.11g: 6...54Mbps			-			-		
Mobile radio interface									
Wireless module	Multi-band modem (4G/3G), Region: North America			Multi-band modem (4G/3G)			Multi-band modem (4G/3G)		
Transmission rate mobile radio	LTE category: CAT 4 Download rate, max.: 150Mbps Upload rate, max.: 50Mbps			LTE category: CAT 6 Download rate, max.: 300Mbps Upload rate, max.: 50Mbps			LTE category: CAT 6 Download rate, max.: 300Mbps Upload rate, max.: 50Mbps		
Frequency band	LTE-FDD: B2, B4, B5, B12, B13, B14, B66, B71, WCDMA-B2, B4, B5			EMEA / Americas, LTE: B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B7 (2600), B12 (700ac), B13 (700c), B20 (800DD), B25 (1900), B26 (US 850 Ext), B29 (US 700de Lower), B30 (2300 WCS), B41 (TDD 2500), UMTS: B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B8 (900)			EMEA / Americas, LTE: B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B7 (2600), B12 (700ac), B13 (700c), B20 (800DD), B25 (1900), B26 (US 850 Ext), B29 (US 700de Lower), B30 (2300 WCS), B41 (TDD 2500), UMTS: B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B8 (900)		
Power supply									
Connection type	1 removable 4-pin terminal block			1 removable 4-pin terminal block			1 removable 4-pin terminal block		
Voltage supply range	10.8...52.8VDC			19.2...28.8VDC			19.2...28.8VDC		
Voltage supply	12/24/48 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af)			24 V DC, 1 single input			24 V DC, 1 single input		
Current consumption	0.46A @ 12V DC; 0.22A @ 24V DC; 0.11A @ 48V DC			0.8A @ 24V			1.5A @ 24V		
Overload current protection	Yes			-			-		
Reverse polarity protection	Yes			Yes			Yes		
Environmental conditions									
Operating temperature	-25 °C...70 °C			-30 °C...70 °C			-25 °C...70 °C		
Humidity	5 - 95 % (no condensation)			5 - 90 % (no condensation)			5 - 90 % (no condensation)		
Operating altitude	2000m in acc. with UL			2000m in acc. with UL			2000m in acc. with UL		
Approvals									
Approvals	CE; cULus			CE; cULus			CE; cULus		

Non Cellular Routers

Industrial Security Router – Fast Ethernet



2 / 4 Port Fast Ethernet Industrial Security Router

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- Future-proof network connection with static and dynamic routing
- Increased network security through stateful inspection firewall, IP/Port-forwarding and



Gigabit Ethernet



Technical Data

Ordering data	Type	Order No.	Qty.	Type	Order No.	Qty.	Type	Order No.	Qty.
	IE-SR-2TX-WL	2682590000	1	IE-SR-4TX	2751270000	1	IE-SR-4GT	2873910000	1
Description	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			Security/ NAT/ VPN/ u-link Router, Fast Ethernet, 4x RJ45 10/100BaseT(X), IP30, -30 °C...70 °C			Security/ NAT/ VPN/ u-link Router, Gigabit Ethernet, 4x RJ45 10/100/1000BaseT(X), IP20, -25 °C...70 °C, Can be configured as a Layer 3 switch		
Management features	Web browser (HTTP/HTTPS), SNMP v2c, Command Line Interface (Telnet/SSH), Upload of a configuration file via web-interface			Web browser (HTTP/HTTPS), SNMP v1/v2c/v3, Windows tool			Web browser (HTTP/HTTPS), SNMP v1/v2c/v3, Windows tool		
Device configuration	SNMP v2c, Syslog, Event based warning via E-Mail, Event based warning via relay, Event based warning via SNMP trap			SNMP v1/v2c/v3, Syslog			SNMP v1/v2c/v3, Syslog		
Monitoring function	Static, DHCP-Client, DHCP-Server (pool-based), DHCP-Relay, DNS-Relay			Static, DHCP-Client, DHCP-Server (pool-based)			Static, DHCP-Client, DHCP-Server (pool-based)		
IP-address management	Access Control List (MAC-based) for WLAN Access Point mode			IPv4 Stateful Packet Inspection Firewall (incoming/outgoing), NAT masquerading, 1:1 NAT, IP forwarding, Port forwarding			IPv4 Stateful Packet Inspection Firewall (incoming/outgoing), NAT masquerading, 1:1 NAT, IP forwarding, Port forwarding		
Security functions	NTP server, NTP client			NTP server, NTP client			NTP server, NTP client		
Time synchronization management									
Modes of operation	Stateful Packet Inspection Firewall (Layer-3)			Stateful Packet Inspection Firewall (Layer-3)			Stateful Packet Inspection Firewall (Layer-3)		
Firewall functions	Source / Destination NAT (Port / Host / Network)			NAT, masquerading, 1:1 NAT			NAT, masquerading, 1:1 NAT		
NAT functions	IPV4 routing, Static, and Dynamic IP Routing			IP router: IP routing (IPv4, Layer-3) with SPI firewall (Stateful Packet Inspection), Static or Dynamic routing, Supports RIPv2 / OSPF			IP router: IP routing (IPv4, Layer-3) with SPI firewall (Stateful Packet Inspection), Static or Dynamic routing, Supports RIPv2 / OSPF		
Routing functions	u-link client, OpenVPN (Server or Client), IPsec (Initiator or Responder)			u-link client, OpenVPN (Server or Client), IPsec (Initiator or Responder)			u-link client, OpenVPN (Server or Client), IPsec (Initiator or Responder)		
VPN functionality	WLAN Access Point, WLAN Client, Virtual COM mode, TCP, Server mode, TCP Client mode, UDP Server/Client mode			Permanent connection, Manual connection control via web interface			Permanent connection, Manual connection control via web interface		
Operating modes									
Interfaces	Number of ports			Number of ports			Number of ports		
	2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485			4x RJ45 10/100BaseT(X), auto negotiation, Full/half-duplex mode, Auto MDI/MDI-X port			4x RJ45 10/100/1000BaseT(X)		
	Digital outputs			Digital outputs			Digital outputs		
	1x, with a current capacity of 0.2 A at 30 V DC			-			Alarm: indicates a configurable network state or fault (24 V out), VPN-active: indicates an active VPN connection (24 V out), 1x		
	Digital inputs			Digital inputs			Digital inputs		
	1x, 5 to 30 V for logic "1", 0 to 2 V for logic "0"			1x, galvanically isolated, VPN-initiate: establishes a pre-configured VPN connection (24 V in), Cut: physically disconnects (Link Down) the WAN port (24 V in), Trigger pre-configured packet filter rules (24 V in)			2x, galvanically isolated, VPN-initiate: establishes a pre-configured VPN connection (24 V in), Cut: physically disconnects (Link Down) the WAN port (24 V in), Trigger pre-configured packet filter rules (24 V in)		
	Function reset button			Function reset button			Function reset button		
	<5 sec: System reboot and set LAN IP to factory Default, >5 sec: Factory default			Restoration of factory settings			Restoration of factory settings		
	Connector for external antennas			Connector for external antennas			Connector for external antennas		
	1x RP-SMA female			-			-		
	Serial port			Serial port			Serial port		
	Baud rate: 110 bit/s to 460800 bit/s - Data bits: 7, 8 - Parity: none, odd, even, Mark, Space - Stop bits: 1, 2			1x RS-485, 2-wire, galvanically isolated, 1 removable 3-pole terminal block			1x RS-485, 2-wire, galvanically isolated, 1 removable 3-pole terminal block		
	Wireless data security			Wireless data security			Wireless data security		
	64-bit and 128-bit WEP encryption, WPA/WPA2 Personal and Enterprise (IEEE 802.1X/RADIUS, TKIP and AES)			-			-		
	Transmission rate WLAN			Transmission rate WLAN			Transmission rate WLAN		
	IEEE 802.11b: 1...11Mbps IEEE 802.11g: 6...54Mbps IEEE 802.11n: 6.5...150Mbps			-			-		
	Power supply			Power supply			Power supply		
	Connection type			Connection type			Connection type		
	1 removable 4-pin terminal block			1 removable 4-pin terminal block			1 removable 4-pin terminal block		
	Voltage supply range			Voltage supply range			Voltage supply range		
	10.8...52.8VDC			19.2...28.8VDC			19.2...28.8VDC		
	Voltage supply			Voltage supply			Voltage supply		
	12/24/48 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af)			24 V DC, 1 single input			24 V DC, 1 single input		
	Current consumption			Current consumption			Current consumption		
	0.22A @ 12V DC, 0.11A @ 24V DC, 0.07A @ 48V DC			0.8A @ 24V			1.3A @ 24V		
	Reverse polarity protection			Reverse polarity protection			Reverse polarity protection		
	Yes			Yes			Yes		
	Environmental conditions			Environmental conditions			Environmental conditions		
	Operating temperature			Operating temperature			Operating temperature		
	-25 °C...70 °C			-30 °C...70 °C			-25 °C...70 °C		
	Humidity			Humidity			Humidity		
	5 - 95 % (no condensation)			5 - 90 % (no condensation)			5 - 90 % (no condensation)		
	Operating altitude			Operating altitude			Operating altitude		
	2000m in acc. with UL			2000m in acc. with UL			2000m in acc. with UL		
	Approvals			Approvals			Approvals		
	CE, cULus			CE, cULus			CE, cULus		



By offering these solutions, we help you build secure, flexible, and user-friendly industrial networks.

u-link Software and Licensing



Ordering data	Type	Order No.
Ordering data	U-LINK-50-DEVICES-1Y	2870090000
	U-LINK-100-DEVICES-1Y	2870100000
	U-LINK-250-DEVICES-1Y	2870110000
	U-LINK-500-DEVICES-1Y	2870120000
	U-LINK-1000-DEVICES-1Y	2924220000
	U-LINK-BASIC-EXTENSION-1Y	3024610000
Version	License code for u-link Remote Access Service. Adds additional configurable u-link clients on Weidmuller hardware to the basic license and extends the period of the basic license accordingly.	
Function and performance features	Number of configurable user objects (service PC) Unrestricted Number of configurable u-link clients on Weidmuller hardware (access points remote network) U-LINK-50-DEVICES-1Y: 50 U-LINK-100-DEVICES-1Y: 100 U-LINK-250-DEVICES-1Y: 250 U-LINK-500-DEVICES-1Y: 500 U-LINK-1000-DEVICES-1Y: 1000 Type of 2-factor authentication Email, Google-Authenticator APP, Microsoft Authenticator APP Type of web-based access (easy Access) Local web-server, RDP, VNC server VPN channel bandwidth 100 Mbit/s User organisation 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, Self-management of organizations within the framework of organizational rights Firmware management Display of the firmware version of all u-link clients and optional, time-controlled, automatic firmware updates (for selected device classes) Functionality of integrated cloud firewall Group-based rules for accessing remote networks based on IP, port and protocol Device management Illustration of the device infrastructure (remote access objects) in a clearly defined tree structure via location, group and device objects Simultaneously usable pass-through VPN connections 1 (expandable by booking further pass-through VPN connections) Period 1 year from activation of the license key or expiry of the existing license. The individual license term is visible during activation. Monthly data volume and bandwidth Unlimited (subject to normal market usage) Usage information Extended reporting and statistical information (connection reports, usage duration, data volume) Password guideline Increased security through configurable specification of minimum requirements for the password quality and validity period System availability ≥ 99.6%	
System requirements	Hardware (service PC) PC with operating system Windows 7, 8, 10, 11 Hardware, remote target network Weidmuller hardware with u-link VPN client Portal administration (user/device configuration) via Web browser (HTTPS), login via username and password VPN software (service PC) u-link VPN-client (installation on PC)	
Miscellaneous	Activation Client account administrator enters the licence key in the u-link portal (functions immediately available) Included in delivery Email with license key	

- 1-click VPN remote access for service PC's
- Easy access: 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
- u-link has an ISO 27001 certified development and is operated accordingly to ISO 27001

u-link VPN license extension

- Additional simultaneous VPN connections

Ordering data	Type	Order No.
	U-LINK-1-CONNECTION-1Y	2870130000
Version	"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	
Function and performance features	Number of additional VPN connections (per licence code) 1 (pass-through VPN connection for service PC <-> u-link <-> router/target network or easyAccess connection) VPN channel bandwidth 100 Mbit/s Period 1 year from activation of the license key or expiry of the existing license. The individual license term is visible during activation. Usage Use as additional VPN channel or to extend period of a VPN channel	

u-link feature extension

- Secure and reliable VPN connection to and from China

Ordering data	Type	Order No.
	U-LINK-CNSERVER-1Y	2870140000
Version	License code for u-link Remote Access Service., Allows the use of the server in China for a secure and reliable VPN connection to and from China.	
Function and performance features	China-VPN Reliable VPN connection to and from China Period 1 year from activation of the license key or expiry of the existing license. The individual license term is visible during activation.	

Connection Accessories



Patch Cable Cat.6 A	Lengths from 0.2m to 90m in various colours
IE-C6FP8LG0002M40M40	Patch cable, RJ45 IP 20, RJ45 IP 20, <20 m: Cat.6A / >20 m Class EA (ISO/IEC 11801 2010), LSZH, 0.2 m

Order Number	Industrial Ethernet Cables	Various lengths and configurations available
2047310005	IE-C5DD4UG0005A60A60-E	Dragline cable, PROFINET, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 0.5 m
1457580050	IE-C6EL8UG0050U40XCS-EN	System cable, RJ45 IP 20, M12 X-type IP 67 straight male, Cat.6A / Class EA (ISO/IEC 11801 2010), PUR, 5 m
1044470010	IE-C5DD4UG0010MCSA20-EN	M12 D-code - IP 67 straight pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 1 m

Order Number	Connectors	Various lengths and configurations available
1963600000	IE-PS-RJ45-FH-BK	RJ45 IDC plug, Cat.6A / Class EA (ISO/IEC 11801 2010), 8-core, 4-core, EIA/TIA T568 A, EIA/TIA T568 B, PROFINET
8813110000	IE-P63	RJ45 plug-in connector, with kink protection; 5.5 - 6.2 mm, Cat.6A / Class EA (ISO/IEC 11801 2010), IP20
8808330000	IE-XR-J45/DC	Flange insert, Cat.6A / Class EA (ISO/IEC 11801 2010), IP20
8952950000	IE-XR-RJ45/RJ45-2	Mounting flange, Cat.6A / Class EA (ISO/IEC 11801 2010), IP20
2812440000	IE-T0-RJ45-C-LP	Mounting rail outlet, RJ45, Coupling, IP20, Cat.6A / Class EA (ISO/IEC 11801 2010)
1018790000	IE-FCM-RJ45-C	FrontCom Micro RJ45 coupling



More information on our website:
www.weidmuller.ca