Sagemcom



TAINY IQ-LTE

Secure connection of wireless M2M applications to your IP network

The TAINY IQ-LTE from Sagemcom Dr. Neuhaus GmbH combines LTE (2G/3G/4G) mobile radio modem, a VPN (Virtual Private Network) router and a firewall in a single device. It offers secure transfers of highly sensitive data by encrypted end-to-end connections. The external communication can be carried out either by wireless mobile radio connection (LTE, HSPA, ...) or by wired WAN connection (LAN). These interfaces work redundant. It's easily possible to realize a failsafe WAN connection thanks to configurable reactions on connection losses (e.g. change from wired WAN to mobile radio). The integrated firewall protects the applications against unauthorized access – resulting in a optimal combination of flexibility and security. Responsible for stability and high availability is the intelligent communication management. This provides an uncomplicated way of incorporating remote stations into your own network. Thanks to Dynamic Multipoint VPN secure data exchange between the devices without the need to redirect it through the control center is possible. The VPN connections can be used redundantly and can be managed over a PKI due to certificate- and SCEP-support. The VPN connections can also be configured redundantly.

- Flexible high-speed internet access without wired installation
- High-security thanks to IPsec-encrypted Dynamic Multipoint VPN connections with extended firewall functions
- Redundancy of network providers thanks to two SIM card slots
- · Convenient configuration via web-interface
- Rights management for role-based access control with TACACS+/ Radius support
- · Standardized integration into a network management system
- Network diagnostics Ping/Traceroute can be operated via the web interface
- · Signaling of radio status, signal strength and connections via LEDs
- Flexible reaction to operational events (e.g. alarms, input-signals)

System Components

- Device: TAINY IO-LTE
- MIMO antenna technology
- Isolated power supply
- SIM-card with data option (second SIM card possible)
- VPN compliant remote station



Product Variant

320180

TAINY IQ-LT

Technical Data

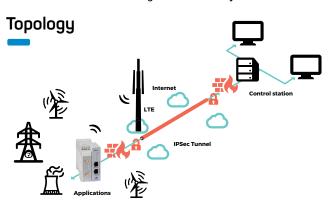
INTERFACE

 Application Interface: 1x 10/100 base-T (RJ45-socket); Ethernet IEEE802; 10/100 Mbit/s; Auto Cross Over; IPv4 and IPv6

- WAN Interface: 1x 10/100 base-T (RJ45-socket); Ethernet IEEE802; 10/100 Mbit/s; Auto Cross Over; IPv4 and IPv6; (optional configurable as application interface)
- Signal input/output: Input: switching voltage 5..30VDC potential-free; Output: Umax. 30 VDC, Imax. 20 mA, potential-free
- Power Supply: Unom. = 12-60 VDC; Irms = 570-165 mA; Imax. = 650 mA (the safety instructions must be observed during installation and initial operation)

FUNCTIONALITY

- VPN: Dynamic Multipoint VPN incl. certificate support; protocols: GRE, NHRP, SCEP, IPsec (3-DES; AES with 128; 192; 256 Bit), MD5, SHA1; Pre-Shared Key (PSK); NAT-T; Dead Peer Detection (DPD); IKE with main and agressive mode
- · Firewall: Stateful Inspection Firewall, Anti-Spoofing
- Configuration: Web-based Administration, SNMPv3 interface, multiple WAN configurations, multiple storable profiles
- User management: user authentication by username/password or TACACS+, configurable user rights
- Miscellaneous: DNS cache, DHCP server, RIPv2, VRRP, DynDNS, logbook, snapshot, firmware upgrade (local, remote), configurable reactions to operational events



Key Features



- VPN router for fail-safe data transfer via public radio networks
- VPN supports certificates and SCEP
- Penta-Band LTE, Triple-Band UMTS/HSPA, Dual-Band GSM/GPRS/EDGE
- 2 Ethernet ports
- IPv4 and IPv6 support
- Intelligent connection monitoring
- •1 RS232 interface
- Isolated power supply
- Large input voltage range (12-60VDC)
- Top-Hat Rail mounting
- Integrated DHCP-server, DNS cache, NTP and SNMPv3
- Dynamic Multipoint VPN, GRE, NHRP, IPsec, Firewall

RADIO

- Connection: GSM / UMTS / HSPA+ / LTE (IPv4 and IPv6)
- Frequency Bands: GSM Dual-Band (900, 1800), UMTS / HSPA+ Tri-Band (1, 3, 8), LTE Penta-Band (1, 3, 7, 8, 20)
- · Antenna Interfaces: 2 x SMA socket, 50 Ohm
- SIM-Card Slots: 2 SIM-Card Slots for Mini-SIM (UICC; Format ID-000); 1.8 V or 3 V

APPROVALS

- Environmental Conditions: Ambient temperature (operation): -20 °C up to +70 °C (automatic switch-off of the radio module if the maximum temperature is exceeded); Ambient temperature (storage/transport): -40 °C up to +85 °C; Max. permissible relative humidity (operation): ≤ 95 %, at +25 °C, no condensation
- Directive 2014/53/EU (RED): RF spectrum: EN 301 511; EN 301 908-1; EN 301 908-2; EMV: EN 301 489-1; EN 301 489-52; EN 55032; EN 61000-6-2; Electrical safety: EN 62368-1; EN 62479
- Directive 2011/65/EU (ROHS): EN 63000

MECHANIC

 Mechanics: top hat rail mounting; enclosure: plastic; protection class: IP20; dimensions: approx. 114.5 x 45 x 99 mm (L x W x H); weight: approx. 280g

MISCELLANEOUS

- ${\color{red} \bullet } \textbf{Accessories: power supply; various antennas; cross-over ethernet cable}$
- · Scope of Delivery: device

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