



Automatización Eléctrica

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Industrial communication technology

Remote communication

Mobile phone network/ MGUARD security routers



Industrial mobile phone routers featuring mGuard technology for global communication via UMTS and CDMA networks.

Thanks to the integrated high-speed mobile phone interface and 4-port switch in compact metal housing, the new TC MGUARD RS2/4000 VPN security appliances create a system for global, secure industrial remote communication.

They have an SD card slot at the front for configuration memory. The SD cards can be used for starting up or replacing the devices quickly and easily. The devices feature an ex- network that is both flexible and robust. tended temperature range and have a buffered realtime clock and trusted platform module (TPM) for secure key generation and management. They support precise time synchronization and positioning, specifically for mobile applications, via GPS and GLONASS.

The TC MGUARD RS4000 3G devices provide high-availability high-end security for industry and a remote maintenance infrastructure for the secure connection of machines and systems. For maximum availability, an additional external network is supported redundantly alongside the internal network (LAN) and the external network (WAN) in the form of the mobile phone interface. The integrated 4-port switch offers management features and supports EtherNet/IP[™].

The TC MGUARD RS2000 3G devices are designed for applications with fewer complex requirements and allow secure remote maintenance of machines and systems in the field via the Internet. In this context, they are used as industrial remote service routers with a simplified configuration. The integrated 4-port switch saves valuable space on the DIN rail.

Both versions have all the necessary standard functions for operating an Ethernet

- Features:
- Port mirroring
- Configuration can be stored externally Web-based management, SNMP
- Replaceable configuration memory
- Comprehensive connection options
- Flexible routing
- Intelligent stateful inspection firewall - Secure remote services (VPN)
- according to IPsec standard

Serial device server included

The integrated COMSERVER function is used to integrate serial RS-232 interfaces into Ethernet networks. This provides an easy way of implementing functions such as cable replacement or network integration.

- Cable replacement: two devices in combination tunnel serial connections via Ethernet
- Network integration: you can integrate automation devices such as controllers or frequency inverters into a network using corresponding programming and diagnostics software

Device Manager

The Device Manager simplifies the management of MGUARD security appliances. The tool features a template mechanism that enables the user to configure and manage all MGUARD devices centrally - from a few hundred devices to several thousand.

Central device management software, the Device Manager for FL MGUARD devices, can be found on page 45

Supply Supply voltage

Functions

Management

Basic functions

Security functions

Encryption methods

Mobile phone network Frequencies

Authentication

Firewall rules

SIM interface

Network check

Input/output

Switching input

Switching output

Electrical isolation

General data

Test voltage

Dimensions

Description

server for BS-232

EL MGUARD

VPN tunnels on FL MGUARD

GPRS compatibility

Antenna connection

Bouting

Number of VPN tunnels

Ethernet interface Connection method

Transmission speed

Transmission length





and VPN, integrated 4-port switch

UMTS/HSPA mobile phone router with firewall and VPN_manageable 4-port switch DMZ port and second WAN interface

Technical data Technical data 10 V DC ... 30 V DC (via plug-in COMBICON screw terminal block) 10 V DC ... 30 V DC (via plug-in COMBICON screw terminal block) Nominal current consumption < 200 mA (24 V DC) < 200 mA (24 V DC) BJ45 socket, shielded BJ45 socket, shielded 10/100 Mbps, autonegotiation 10/100 Mbps, autonegotiation 100 m (shielded twisted pair) 100 m (shielded twisted pair) Web-based management, SNMP Web-based management, SNMP Router with simplified 2-click firewall and VPN for 2 tunnels (fixed), metal housing, slot for any SD memory card Router with intelligent firewall and VPN for 10 tunnels (up to 250 supported with optional additional license), CIFS Integrity Monitoring (as an option), metal housing, slot for SD memory card 10 (as an option, up to 250, with additional license 2 (fixed, Ipsec (IETF standard)) FL MGUARD LIC VPN-250/ Order No. 2700193 or 2700192 DES. 3DES. AES-128. -192. -256 DES. 3DES. AES-128. -192. -256 Internet Protocol Security (IPsec) mode ESP-Tunnel / ESP-Transport ESP-Tunnel / ESP-Transport X 509v3 certificates with BSA or PSK X 509v3 certificates with BSA or PSK Configurable stateful inspection firewall with full scope of functions Simplified 2-click stateful inspection firewall Standard routing, NAT, 1:1-NAT, port forwarding Standard routing, NAT, 1:1-NAT, port forwarding 850 MHz (2 W (EGSM)) / 900 MHz (2 W (EGSM)) / 850 MHz (2 W (EGSM)) / 900 MHz (2 W (EGSM)) / 1800 MHz (1 W (EGSM)) / 1900 MHz (1 W (EGSM)) / 800 MHz (0.25 W (UMTS)) / 850 MHz (0.25 W (UMTS)) / 1800 MHz (1 W (EGSM)) / 1900 MHz (1 W (EGSM)) / 800 MHz (0.25 W (UMTS)) / 850 MHz (0.25 W (UMTS)) / 900 MHz (0.25 W (UMTS)) / 1900 MHz (0.25 W (UMTS)) 900 MHz (0.25 W (UMTS)) / 1900 MHz (0.25 W (UMTS)) / 2100 MHz (0.25 W (UMTS)) / 800 MHz (CDMA2000 EV-DO) / 1900 MHz (CDMA2000 EV-DO) 2100 MHz (0.25 W (UMTS)) / 800 MHz (CDMA2000 EV-DO) / 1900 MHz (CDMA2000 EV-DO) 1.8 volt. 3 volt 1.8 volt. 3 volt Class 12 Class B Class 12 Class B LED bar graph to display receive guality LED bar graph to display receive guality 50 Ω impedance SMA antenna socke 50 O impedance SMA antenna socke 3 x U., input range: 10 V DC ... 30 V DC/5 mA 3 x U., input range: 10 V DC ... 30 V DC/5 mA 3 x U₁₁₋₋₋ input range: 10 V DC ... 30 V DC/250 mA short-circuit-3 x U_{Nom}, input range: 10 V DC ... 30 V DC/250 mA, short-circuitproo Ambient temperature (operation) -20 °C ... 60 °C -20 °C ... 60 °C (VCC // PE) (VCC // PE) 1 kV (50 Hz, 1 min.) 1 kV (50 Hz, 1 min.) W/H/D 45 mm / 130 mm / 114 mm 45 mm / 130 mm / 114 mm Ordering data Ordering data Pcs. / Pkt. Pcs. / Pkt. Туре Order No Type Order No. Mobile phone router with mGuard technology, VPN and firewall, replaceable memory, GPS time synchronization, serial device - 2 x WAN interface (1 x RJ45, 1 x mobile phone technology). TC MGUARD RS4000 3G VPN 2903440 4 x LAN interface (RJ45, manageable), DMZ port - 1 x WAN interface (mobile phone technology), TC MGUARD RS2000 3G VPN 2903441 4 x LAN interface (RJ45) Accessories Accessories Parameterization memory License to configure and operate 250 VPN tunnels on SD FLASH 256MB 2988120 SD FLASH 256MB 2988120 1 FL MGUARD LIC VPN-250 2700193 FL MGUARD LIC VPN-250 GROUP 2700192 License to configure any number of tunnels and operate 250

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Product	Code	Reference	Product link
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