

Mobile broadband router MR-210



- · Economic and environmental benefits
- · Access SCADA systems, HMI and PLCs remotely
- Wireless mobile broadband GPRS / FDGF connection

III Network resilience to minimize down-time

- Dual SIM support removes carrier dependency
- Fail-over technologies ensure high availability
- Easily integrated with external ADSL devices, Falcon and DR-260

Ⅲ Cyber secured Internet access

- Advanced firewall prevents unauthorized access
- Encrypted and secure data transmission with VPN-tunnels
- · Extensive logging for system surveillance
- ## A wide-variety of solutions to common communication issues
 - Simple replacements of analogue leased lines
 - · Advanced diagnostics to solve legacy network issues
 - · Easy to use packet analyzer for quick feedback to engineers



EN 61000-3-3

R&TTE Radio and telecommunications terminal equipment

MR-210

Remote access removes boundaries, eliminates the need for time consuming site visits and provide a network infrastructure suitable for today's "always-on" society. The MR-210 mobile broadband GPRS / EDGE router uses the Internet to cost effectively inter-connect systems, allowing HMI, PLCs, sensors etc to communicate with each other.

The dual SIMs ensures high availability for critical applications. Bundle the mobile broadband GPRS with ADSL devices, Falcon or DR-260, for both wired and wireless access.

Devices connected to the Internet require countermeasures towards cyber threats. The MR-210 offers protection of transmissions from malicious eavesdroppers via encrypted communication tunnels (VPN, optional upgrade), access prevention from unauthorized addresses, and extensive logging to detect intrusion attempts. With an advanced and highly configurable firewall the unit is easily set up to only allow valid application data.

The MR-210 with its built-in serial port offers a simple modern replacement solution with the benefit of not having to reprogram or change any other component. The powerful software in the MR-210 offers methods to engineers to easily analyze the data-flow, valuable for fast troubleshooting of connected devices.

The MR-210 supports GPRS and EDGE and is equipped with one serial port and one Ethernet port.

Ordering Information		
Art.no	Description	
3622-0201	Enterprise Cellular Router (GSM / GPRS / EDGE), 1 \times RJ-45 Ethernet port, 2 SIM slots, IPsec encryption optional	
4200-3000	Optional IPsec encryption update	
4200-3006	Optional VPN tunnel extension upgrade to support 50 Tunnels	
3125-0001	PS-30 Power Supply	

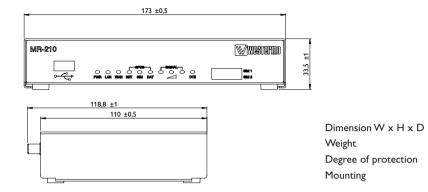


Wwesterm

PWR LAN WAN NET SIM DAT

Specifications MR-210

Dimensional drawing



-40 to +85°C

Power			
Operating voltage	9 – 48 VDC		
Start-up current	1500 mA @ 12 VDC		
Interfaces			
RS-232	$1 \times 300 \text{ bit/s} - 115.2 \text{ kbit/s}$		
Ethernet TX	1 x 10 Mbit/s or 100 Mbit/s		
Antenna	1 × 850 MHz – 2100 MHz		
SIM	2 x SIM slots (3 volts SIM supported)		
USB	1 x USB 2.0 Interface (Max speed 12 Mbit/s)		
Temperature			
Operating	-20 to +55°C (-30 to +70°C restricted operation)		

Agency approvals and standards compliance		
EMC	C EN 55024, EN 55024 A1, EN 55024 A2, Electromagnetic compatibility - Immunity IT equipment EN 55022, EN 55022 A1, Information technology equipment.	
	Radio disturbance characteristics. Limits and methods of measurement	
	FCC part 15 Class B	
Safety	IEC/EN 60950-1, IT equipment	

Storage & Transport

173 × 40 × 119 mm

DIN-rail or shelf

0.49 kg

IP 30

Protocols and Functionality

Ethernet Technologies	IEEE 802.3 for 10BaseT
	IEEE 802.3u for 100BaseTX
Cellular Technologies	GSM GPRS Multi-slot class 12, mobile station class B, PBCCH support, coding schemes CS 1-4 EDGE Multi-slot class 12 (max 236.8 Kbit/s), mobile station class B, modulation and coding scheme MCS 1-9 3G (WCDMA) 384 Kbit/s downlink / uplink HSDPA up to 7.2 Mbit/s downlink HSUPA up to 2.0 Mbit/s uplink
Serial Port Technologies	RS-232 Serial Over IP (Serial Extender and Virtual Serial Port) LAPB, MODBUS
Resiliency and High Availability	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid STP (RSTP)
Layer-2 Switching	IEEE 802.1Q Static VLAN and VLAN Tagging IEEE 802.3x Flow Control IGMPv2/v3 snooping Static Multicast MAC filters
Layer-2 QoS	IEEE 802.1p Class of Service Flexible classification VLAN tag, VLAN ID, IP DSCP/ToS, Port ID)
IP Routing, Firewall, VPN and Cyber Security	Static IP routing Dynamic IP routing BGP OSPFv2 RIPv1/v2 VRRP,VRRP+TM GRE Stateful inspection Firewall / ACL, NAT, 1:1 NAT, Port Forwarding IPSec VPN including failover functionality, PSK & X.509, SCEP Encryption package needed, see first page for details. S Non-encrypted tunnels included, supports 50 tunnels in total with upgrade. L2TP, PPTP OpenVPN / SSL VPN TACACS+ RADIUS SMS Control
Manageability	Management tools Web interface (HTTP and HTTPS) Command Line Interface (CLI) via console port, SSHv2 and TELNET SNMPv1/v2c/v3 Powerful Packet/Protocol Analyzer with PCAP-export support Flexible management of configuration and log files Local file management via HTTP, FTP, TFTP and SCP Load/save files from/to USB memory stick Upgrade firmware from USB memory stick Flexible alarm/event handling system Syslog (log files and remote syslog server) Port Monitoring SNTP (NTP client) PPP DHCP client DHCP server DDNS (Dynamic DNS update client)
Programming / Custom Control	Python and ScriptBasic

