Multiple media ADSL router
DR-260

⊞ Industrial remote access using the Internet
  - Economic and environmental benefits
  - Access SCADA systems, HMI and PLCs remotely
  - ADSL interface standard on all DR-260

⊞ Network resilience to minimize down-time
  - Multiple media GPRS / 3G / PSTN / ISDN options
  - Dual SIM support removes carrier dependency
  - Fail-over technologies ensure high availability

⊞ 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

CE   FC Part 15

EN 61000-3-2
Electromagnetic compatibility

EN 61000-3-3
Electromagnetic compatibility

R&TTE
Radio and telecommunications terminal equipment

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 DR-260 ADSL router uses the Internet to cost effectively inter-connect systems, allowing HMI, PLCs, sensors etc to communicate with each other.

The optional multiple media interfaces ensures high availability for critical applications. Mobile broadband (3G) in conjunction with ADSL protects against digging accidents or other issues that may occur in a wired environment.

Devices connected to the Internet require countermeasures towards cyber threats. The DR-260 offers protection of transmissions from malicious eavesdroppers via encrypted communication tunnels (VPN), 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.

Certain carriers discontinue leased line service to its customers but that does not mean that the need for communication has changed. The DR-260 with its built-in serial port offers a simple solution, modem replacement, with the benefit of not having to reprogram or change any other component.
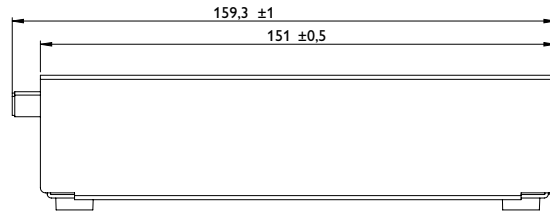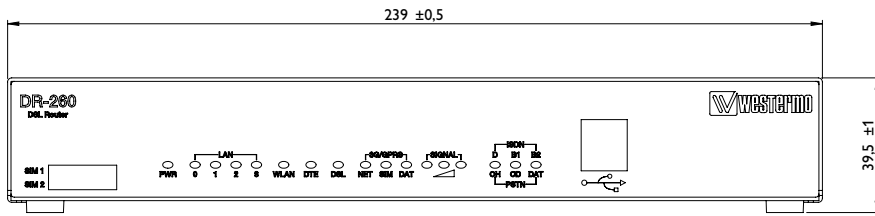
The powerful software in the DR-260 offers methods to engineers to easily analyze the data-flow, valuable for fast troubleshooting of connected devices.

Ordering Information

Art.no	Description	
3622-0210	DR-260A	Multiple Media Router ADSL for Annex A
3622-0220	DR-260A + 3G	Multiple Media Router ADSL for Annex A + 3G backup
3622-0230	DR-260A + 3G + PSTN	Multiple Media Router ADSL for Annex A + 3G & PSTN backup
3622-0240	DR-260B	Multiple Media Router ADSL for Annex B
3622-0250	DR-260B + 3G	Multiple Media Router ADSL for Annex B + 3G backup
3622-0260	DR-260B + 3G+ISDN	Multiple Media Router ADSL for Annex B + 3G & ISDN backup
3622-0270	DR-260B + ISDN	Multiple Media Router ADSL for Annex B + ISDN backup
3622-0280	DR-260A + PSTN	Multiple Media Router ADSL for Annex A + PSTN backup
4200-3006	Optional VPN tunnel extension upgrade; additional 50 Tunnels	
4200-3010	Optional VPN tunnel extension upgrade; additional 100 Tunnels	
3125-0001	PS-30 Power Supply	

Specifications DR-260

Dimensional drawing

239 ±0,5

39,5 ±1

DR-260
DSL Router

WESTERMO

SIM 1
SIM 2

PWR LAN 0 1 2 S WLAN DTE DSL 3G/GPRS NET SIM DAT SIGNAL ISDN B1 B2 CH CD DAT PSTN

159,3 ±1

151 ±0,5

Dimension W x H x D	239 x 40 x 159 mm
Weight	0.9 kg
Degree of protection	IP 30
Mounting	DIN-rail or shelf

Power	
Operating voltage	10 – 28 VDC
Start-up current	1500 mA @ 12 VDC

Interfaces	
RS-232	1 x 300 bit/s – 115.2 kbit/s
Ethernet TX	4 x 10 Mbit/s or 100 Mbit/s
ADSL	1 x ADSL / ADSL2 / ADSL2+ / ADSL2++
Antenna	2 x 850 MHz – 2100 MHz
SIM	2 x SIM slots (3 volts SIM supported)
USB	2 x USB 2.0 Interface (Max speed 12 Mbit/s)

Temperature	
Operating DR-260	–25 to +70°C (–4 to +158°F)
Operating DR-260 + 3G	–25 to +55°C (–4 to +131°F)
Storage & Transport	–40 to +85°C

Agency approvals and standards compliance	
EMC	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

Member of

broadband forum
member company

Protocols and Functionality

Ethernet Technologies	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX
ADSL Technologies	ITU-T G.992.1 ADSL (Annex A, B (non overlap)) ITU-T G.992.2 ADSL Lite (Annex A (non overlap)) ITU-T G.992.3 ADSL2 (Annex A, B, I, J, L, M (non overlap)) ITU-T G.992.5 ADSL2+ (Annex A, B, I, J, M (non overlap)) RFC2684 Bridged LLC and Bridged VC-MUX ATM encap. (ADSL) ADSL2++ Quad spectrum downstream and double upstream

Cellular Technologies (optional)	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

Modem Technologies	PSTN (Requires PSTN option) ISDN (Requires ISDN option)
Serial Port Technologies	RS-232 Serial Over IP (Serial Extender and Virtual Serial Port) LAPB
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+™
	GRE
	Stateful inspection Firewall / ACL, NAT, 1:1 NAT, Port Forwarding
	IPSec VPN including failover functionality, PSK & X.509, SCEP
	  • 20 Encrypted tunnels included, supports 200 tunnels in total with upgrade.
	L2TP, PPTP
	OpenVPN / SSL VPN
	TACACS+
	RADIUS
	SMS Control (Requires 3G Option)

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)
	PPPoA & PPPoE client
	DHCP client
	DHCP server
	DDNS
Programming Custom Control	ScriptBasic