Westermo®

Industrial ADSL Router ADSL-350

Industrial remote access using the Internet

- Economic and environmental benefits
- Access SCADA systems, HMI and PLCs remotely
- Supports a wide range of ADSL-standards including long lines

III Designed for industrial applications

- RS-232 port with intelligent modem replacement features
- Compact DIN-Rail mounted unit, with a wide power input range, 10 to 60 VDC
- All connectors and LEDs on the front

III Secured Internet access made easy

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- Designed to cope with the threats of the Internet environment
- · Easy to use firewall prevents unauthorized access
- Encrypted and secure data transmission with VPN-tunnels

III A wide-variety of solutions to common communication issues

- Simple replacement of analogue leased lines
- · Ability to connect two different Ethernet-devices directly to the router
- Serial protocols as well as serial to Ethernet conversion features

Ratte Radio and telecommunications terminal equipment



Remote access removes boundaries, eliminates the need for time consuming site visits and provides a network infrastructure suitable for today's "always-on" society. The ADSL-350 is an industrially designed ADSL broadband router built to cope with harsh environments and the characteristics of industrial applications. The unit supports a wide range of ADSL-standards and has support for long lines.

Most devices today comes equipped with an Ethernet port for communications, therefore the ADSL-350 has a built-in two port Ethernet switch. For legacy connectivity the unit also features one RS-232-port to provide multiple connection possibilities for both new and legacy replacement installations. Designed to be installed on a DIN rail all connectors and LEDs have been positioned in the front of the unit, facing the user for easy access and fast status feedback. With the wide power input range the unit can be powered from 10 to 60 VDC and has low power consumption.

The cyber security features of the ADSL-350 prevent unauthorized access and secure the communication for Internet-enabled applications. The easy to use firewall filters incoming traffic, allowing only approved packets to pass through. To inter-connect units with each other securely over the Internet multiple VPN technologies are supported, including IPsec and OpenVPN.

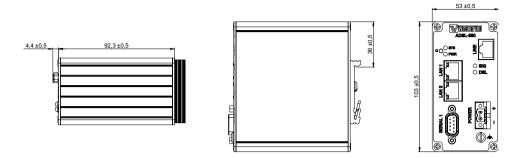
Upgrading legacy solutions to become IP-enabled can prove both costly and tedious therefore the ADSL-350 includes a wide feature set for various legacy applications including both modem replacement methods as well as serial to Ethernet conversion. If there are applications that require extra attention Westermo's extensive experience from over 35 years within industrial data communications and over 5 years of industrial ADSL expertise will be available to assist you.

Ordering Information		
Art.no	Description	
3623-0301	ADSL-350 Industrial ADSL router for ADSL/ADSL2/ADSL2+, 10 to 60 VDC	
3125-0001	PS-30 Power Supply	



Specifications ADSL-350

Dimensional drawing



Dimension $W \times H \times D$	$53 \times 103 \times 97 \text{ mm} (2.08 \times 4.05 \times 3.81 \text{ in})$
Weight	0.4 kg
Degree of protection	IP40

Power			
Operatin	g voltage	12 to 48 VDC	
Rated vo	ltage	10 to 60 VDC	
Rated cu	rrent	520 mA @ 12 VDC	
Interfaces			
RS-232		1 × 300 bit/s – 115.2 kbit/s	
Ethernet	ТХ	2 × 10 Mbit/s or 100 Mbit/s	
DSL		1 × RJ-11, LLC /VC-MUX, PPPoE, PPPoA	
Temperature			
Operating		-25 to +70°C (-13 to +158°F)	
Storage & Transport		-40 to +85°C (-40 to +185°F)	
Agency approvals and standards compliance			
EMC	EN 301489-1, EMC and ERM - ElectroMagnetic compability and Radio spectrum Matters		
Safety	IEC/EN 60950-1, IT equipment.		

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Protocols and Functionality

Ethernet Technologies	IEEE 802.3 for 10BaseT
6	IEEE 802.3u for 100BaseTX
	Layer-2 QoS
	IEEE 802.1p Class of Service
ADSL Technologies	ITU-T G.992.1 ADSL (Annex A (non overlap))
-	ITU-T G.992.2 ADSL Lite (Annex A (non overlap))
	ITU-T G.992.3 ADSL2 (Annex A, I, L, M (non overlap))
	ITU-T G.992.5 ADSL2+ (Annex A, I, M (non overlap))
	RFC2684 Bridged LLC and Bridged VC-MUX ATM encap. (ADSL)
	ADSL2++ Quad spectrum downstream and double upstream
	TR-067 Compliance
	Dying Gasp support
	ITU K.21 Support
	Rate adaptive modem at 32 Kbps steps
	ATM Layer with traffic shaping QoS support (UBR, CBR, VBR-rt, VBR-nrt)
	AAL5 – AAL
	F5 OAM Loopback/Send and receive
	RFC2364 PPPoA client support
	RFC2516 PPPoE client support
	RFC2225 / RFC1577 Classical IP Support
	PAP/CHAP/MS-CHAP for Password Authentication support
Serial Port Technologies	RS-232
0	Serial Over IP (Serial Extender and Virtual Serial Port)
	Modem emulation
	AT command interpreter
	MODBUS
	DNP3
IP Routing, Firewall, VPN	Static IP routing
and Cyber Security	Dynamic IP routing
	• RIPv1/v2
	VRRP
	GRE
	Stateful inspection Firewall / ACL, NAT, Port Forwarding
	25 x IPsec VPN, PSK & X.509
	1 x L2TP client
	1 x PPTP client
	1 x OpenVPN / SSL VPN client
	RADIUS
	PPP Dial in/Dial out
Manageability	Management tools
5 ,	• Web interface (HTTP and HTTPS)
	Command Line Interface (CLI) via SSHv2 and TELNET
	• SNMPv1/v2c
	Syslog (log files)
	SNTP (NTP client)
	DHCP client
	DHCP server
	DDNS (Dynamic DNS update client)

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