



SARIAN MW3520

MULTIPROTOCOL MANAGED ROUTER ADSL/ISDN/GPRS PSTN

DATA SHEET

APPLICATIONS

Internet Access
Remote office connections
ATM Machines
Lottery Terminals
Back up for leased lines
Back up for Cisco™ routers
Remote access to Cisco™ routers
POS (Point of Sale)
Telemetry in remote locations

KEY BENEFITS

Pro-DSL

MW3520 is the first in a new line of professional ADSL devices intended for use where ADSL services are used in truly mission critical applications.

With extended reach capabilities and high quality DSL filters, MW3520 is a top specification device at an affordable price.

Multiple Back up Options

ADSL is an attractive proposition for many business applications, however, it is often hard to obtain service level agreements. MW3520 overcomes this by providing continuous monitoring of the ADSL line at a physical and logical level and if it detects a failure, automatically routes user data over a back up circuit which can be ISDN, GPRS or PSTN dial up.

VPN Concentrator

The MW3520 is also a powerful VPN concentrator in its own right supporting up to 500 simultaneous clients thanks to its hardware assisted encryption (DES, 3DES and AES supported)

A stateful inspection firewall blocks access on a port, protocol and subnet basis and can be configured to provide alerts when intrusion attempts are detected.

Modular

The MW3520 can be purchased as an ISDN / ADSL unit and upgraded later with optional PSTN and GPRS modules.

The unit will also be upgradeable to UMTS(3G) and GPRS EDGE modules when available (*early 2005*)

FEATURES

DESCRIPTION

Main Features

Pro-DSL	Long reach, high quality ADSL for professional applications
Multiple back up options	Automatic back up to ISDN, PSTN or GPRS for peace of mind
Modular	GPRS and / or PSTN can be added after purchase. Wireless module can upgrade as technology changes.
Powerful Intel X-Scale™ Processor	Able to handle large volumes of users / connections without slow down

VPN

Supports IPSec and GRE tunnelling	Secure connections over low cost public service
Hardware assisted DES, 3DES and AES Encryption	High speed encryption means that security doesn't slow your data down
Supports up to 500 simultaneous users	One unit can be deployed for even large applications

Wireless

GPRS Class 10 and CSD	Fastest available GPRS connection with fallback to "dial up GSM" in the event of a GPRS problem
Supports tunnelling over GPRS	Means that you can keep your addressing scheme the same even when backing up to GPRS

Other Features

Stateful Route Inspection	Automatic back up with route probing, no assistance from the application is required
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SPECIFICATIONS

Main Features

ADSL router with ISDN / GPRS / PSTN backup
Built-in 5 port switching hub
Two serial devices can be attached

Router Features

Support for IP, TCP, UDP, ICMP, ARP, RARP, XOT, L2TP, VRRP+
802.11Q QOS
Static IP Routing & Filtering
Embedded DHCP Server
Reverse NAT (Static NAT Mapping)
Network Address Translation (NAT)
Support for GRE Tunneling
PPP, MLPPP, BACP
AO/DI

ADSL

ANSI T1.413 issue 2
Downstream up to 8Mb/s
Upstream up to 896kb/s
Rate adaptive in 32 Kb/s steps
Up to 18,000 feet on 28AWG
ITU-T G.992.1 Annex A, B or C, UR2
RFC 1483 BPDU & RPDU
(Bridged/Routed Ethernet over ATM PVC)
RFC 1577 Classic IP over ATM)
RFC 2364 (PPP over ATM PPPoA)
RFC 2516 (PPP over Ethernet PPPoE)

ISDN Protocols

CCITT I.430, Q.921, Q.931 CTR3 / CTR33 Approved
X.25 PAD (X.3, X.28, X.29)
Up to 4 Logical Channels, LCN : 0-2048
X.31 D Channel Packet Mode Services
TEI 0-63, fixed or negotiated.
Single or multiple TEI support

GSM / GPRS Protocols (option)

GSM Phase II+
GPRS packet data (SMG31)
Triband Type A - 900 / 1800 / 1900 MHz
Triband Type B - 850 / 900 / 1900 MHz
GPRS Class 10
CS 1 - CS 4 GPRS Coding
SMS and CSD (GSM Data)

Analogue PSTN (option)

ITU-T V.92 / V.90 / 56K Compliant
V.44 Error Correction
V.42 LAPM, MNP 2 - 4 Error Correction
V.42bis & MNP Class 5 data compression
Global approvals (see Sarian for full list)

DTE Interfaces

AT Modem Emulation
TCP / IP, Telnet, PPP
Additional protocols : TPAD / APACS30
V.110 / V.120 / X.75 / X.75 NL
X.28 PAD
Serial Port : PPP, LAPB-X25
Support for Terminal Serving (Telnet)
Support for Synchronous Tunneling

Management & Diagnostic

Real-time activity / exception logging and call statistics / history
SNMP V1, V2c with supplied MIB
Protocol Analyzer on all ports supports IP serial and Ethernet protocols
Local / Remote configuration via web interface or command line
Automatic triggering of SMTP e-mail on QOS and system events
Local/Remote software update

Security

IPSec Compliant VPN with X.509
Supports up to 500 VPN tunnels
IKE Version 2/ EAP Support
Hardware DES / 3DES / AES
Verified with Cisco IOS/Pix™, Checkpoint™, Watchguard™
Stateful Inspection Firewall
PAP / CHAP Security (Cisco™ Compatible)
Command mode accesses logged
Restrict local access via serial port

Operating Software

Advanced Real-Time Operating System
Flash Memory filing system
Real-time clock with battery back up
System Watchdog
Failsafe Backup Mode

Physical Interface

ADSL : RJ45
ISDN : RJ45 for S/T connection
PSTN : RJ11 telco jack
50 Ohm TNC Antenna Connector
Serial Port 0 : Sync / Async 75bps - 115kbps RS232 DB25
Serial Port 1 : Async 75bps - 115kbps RS232 DB9
LAN : 5 x 10 / 100Mb Ethernet Ports (auto sensing MDI / MDX)
12VDC Latching Power Connector

Mechanical

W 290mm x D 158mm x H 35mm
Weight 1.3Kg (ex PSU - options fitted)
Mains Power supply: Input - 230 / 240V
Case Material : Pressed Steel

ORDERING INFORMATION

91-MW3520-SSUK-00 MW3520 - ADSL / ISDN - UK PSU - UK PSTN Lead

91-MW3520-SSEU-00 MW3520 - ADSL / ISDN - UK PSU - UK PSTN Lead

OPTIONS

93-MW3520-GPRS-00 MW3520 GPRS Option including antenna (factory fit only)

93-MW3520-PSTN-00 MW3520 PSTN Option (Factory Fit)

93-MW3520-PSTN-01 MW3520 PSTN Option (User Fit)

92-VPN-01 Additional 5 VPN client licences

92-VPN-02 Additional 100 VPN client licences

93-ANT-MAG-SMA Magnetic Mount External Antenna

93-ANT-THRU-SMA Through Hole Mount External Antenna (requires drilling)

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