

SARIAN VC 5100

VPN CONCENTRATOR

ADSL/ISDN



DATA SHEET

APPLICATIONS

Head Office VPN Concentrator
GPRS Tunnel Concentrator
XOT Switch
High Speed X.25 Switch

KEY BENEFITS

VPN Concentrator

The VC5100 is a powerful VPN concentrator supporting up to 1,500 simultaneous clients thanks to its hardware assisted encryption (DES, 3DES and AES supported) and super fast processor.

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 ungradable to UMTS(3G) and GPRS EDGE modules when available (*early 2005*)

Mounting Options

VC5100 comes out of the box as a desk mount, but with the supplied brackets, it can quickly be converted into a 19" rack mount ideal for server room environments.

High Speed X.25 Switching

Migration of X.25 to modern protocols such as GPRS often requires fast X.25 switching, VC5100 can switch as many as 2,000 calls per second !

Multiple Access Options

The VC5100 is primarily designed to support devices connecting to it via its fast ethernet port. However, it is supplied as standard with Pro-DSL and ISDN ports.

Further options include GPRS and PSTN modules.

FEATURES

Main Features

VPN Concentrator	Provides secure VPN connectivity to many simultaneous remote devices
Hi Speed Intel X-Scale™ Processor	Supports up to 1,500 users
Pro-DSL	Long reach, high quality ADSL connectivity
X.25 Switching	High speed X.25 switching at up to 2,000 packets per second is ideal for XOT applications
Deflate and LZS/STAC Compression	Achieve higher virtual line speeds and lower communications costs by using effective compression

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 IPSec IKE V2	Already equipped for the latest IPSec security protocols

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

19" Rack Mount Option	Neat, easy installation in a rack mount situation
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DESCRIPTION

SARIAN SYSTEMS VC5100 VPN ACCESS CONCENTRATOR

SPECIFICATIONS

Main Features

VPN Access concentrator router with Ethernet / ADSL and GPRS / PSTN options
Built-in 5 port switching hub

Router Features

Support for IP, TCP, UDP, ICMP, ARP, RARP, XOT, VRRP+, L2TP
LZS STAC(Opt) & Deflate Compression
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 896 kb/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
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 1,500 VPN tunnels
Hardware assist DES / 3DES / AES
Verified with Cisco IOS/Pix™, Checkpoint™, Watchguard™
Stateful Inspection Firewall
PAP / CHAP Security
Command mode accesses logged
Can restrict local access to 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 : RJ11
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

Without rack mount kit :
W 290mm x D 158mm x H 45mm
With rack mount kit :
W 480mm x D 158mm x H 43mm (1U)
Weight 1.7Kg (ex PSU - options fitted)
Mains Power supply: Input - 230 / 240V
Case Material : Pressed Steel

ORDERING INFORMATION

91-VC5100-SSUK-00 MW3520 - ASDL / ISDN - UK PSU - UK PSTN Lead

91-VC5100-SSEU-00 MW3520 - ASDL / ISDN - UK PSU - RJ11 PSTN Lead

OPTIONS

93-VC5100-GPRS-00 VC5100 GPRS Option including antenna (factory fit only)

93-VC5100-PSTN-00 VC5100 PSTN Option (Factory Fit)

92-VPN-01 Additional 5 VPN client licences

92-VPN-02 Additional 100 VPN client licences

92-COMP-01 LZS-STAC Compression Option

93-ANT-MAG-SMA Magnetic Mount External Antenna

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

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