

## G.SHDSL Bridge / Router

### TC-505A



### Description

TC-505A is a high-speed product of G.SHDSL series. Understanding the urgent needs of both bandwidth and routing functions, TC-505A is designed to provide the business customer a high performance stand alone unit with rich of routing features via single G.SHDSL line. Strongly committed to friendly configuration, TC-505A has the Web-based and GUI-based configuration features for configuring the unit in the easiest way ever. There is a Dying-gasp circuit which supports remote power failure detection and indication.

TC-505A is an idea product for SOHO users who is starving for high bandwidth and fast, reliable Internet connection but less operating expense. Service provider also can use TC-505A to offer DSL service with features beyond the normal consumer needs.

### FEATURES

- Easy configuration and management with password control for various application environments
- Efficient IP routing and transparent learning bridge to support
- broadband Internet services
- VPN pass-through for safeguarded connections
- Fully ATM protocol stack implementation over SHDSL
- PPPoA and PPPoE support user authentication with PAP / CHAP
- SNMP management with SNMPv1 / SNMPv2 agent and MIB II
- Getting enhancements and new features via firmware upgrade
- Built-in 4-port 10/100Mbps switch
- Dying Gasp circuit built-in
- WAN Port ping Disable /Enable
- URL blocking

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## G.SHDSL Specification

- Downstream and upstream symmetrical data rates up to 5.7Mbis in Annex A, B ,F mode
- ITU G.991.2 Annex A ,B,F,G
- Fixed/ Auto rate negotiation : compliant G.994.1
- STU-C/STU-R mode selectable
- Impedance: 135 ohm
- Coding: TC-PAM, compliant to ITU-T G.991.2 (G.SHDSL)
- Performance monitoring: (errored seconds, severely errored seconds, unavailability seconds)
- SNR /Attenuation Value calculation

## Physical interfaces

- 4 ports RJ45 for 10/100Mbps Ethernet LAN connection
- 1 RJ-11 port for G.SHDSL connection
- 1 console port for local configuration and management

## SOFTWARE SPECIFICATIONS

### ATM Protocol

- ATM adaptation layer type 5 (AAL5)
- VC multiplexing and LLC encapsulation
- Multi-protocol over AAL5 (RFC 1483/2684 bridged and routed PDU)
- Classical IP over ATM (RFC 1577 with MTU = 1500)
- Up to 12 PVCs
- ATM QoS CBR, UBR, VBR, VBR-rt support
- UNI 3.1/4.0 PVC
- I.610 OAM F5 loopback

### PPP Support

- PPP (RFC 1661)
- PPP over AAL5 (RFC 2364)
- PPP over Ethernet (RFC 2516)
- User authentication with PAP/CHAP

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**Routing Capability**

- Support IP/TCP/UDP/ARP/ICMP protocols
- IP routing with static routing and RIPv1/RIPv2 (RFC1058/2453)
- Network address translation (NAT/PAT) (RFC1631)
- DNS relay and caching (RFC1034/1035)
- DHCP server (RFC2131/2132)

**Bridging**

- IEEE 802.1D transparent learning bridge
- Up to 1K MAC learning addresses

**Configuration**

- Local console (RS232)
- Telnet access
- Web-based GUI (HTTP)
- Multi-level password protection

**Network Management**

- Web-based GUI for express setup, configuration and management
- Menu-driven interface for local console and Telnet access
- Password protected management and access control list for administration
- SNMP management with SNMPv1/SNMPv2c
- Software upgrade via TFTP server

**Hardware Specification**

Power Supply	External power adapter 12V DC, 1000mA
LAN Port	RJ45 x 4
WAN Port	RJ11 x 1
Console Port	DB9-Female x 1
Operating temperature	0° to 45°C
Storage temperature	-10° to 70°C
Housing	Plastic Case
Dimension	161mm x 130mm x 32mm (L x W x H)