

Tahoe 681 / 682

G.shdsl+ modems with Ethernet interface



Tahoe 681 and Tahoe 682 modems take advantage of the latest G.shdsl technology unfolding unprecedented possibilities for copper leased lines.

Throughputs of over 11 Mbps on distance of up to a few kilometres are possible - faster and further than any other modem technology.

In addition to typical G.shdsl modulations, TCPAM-32 coding - much more efficient than the standard TCPAM-16, offering higher speeds and greater reach, is provided.

Standards

G.shdsl modem, conforms to ITU G.991.2

Throughput

Tahoe 681: up to 5.6 Mbps on a 2-wire line
Tahoe 682: up to 11.2 Mbps on a 4-wire line

Modulation

TCPAM-32

- up to 30% greater reach in comparison to HDSL
- up to three times higher throughput over the lines with bandwidth limiting devices such as low-pass filters

Interface

Ethernet 10/100 Base-T

Features

- TCP/IP router
- NAT/masquerade
- firewall
- built-in LCD and keyboard for easy configuration
- telnet management
- SNMP management
- serial console management
- DHCP/BOOTP server (dynamic assigning of IP addresses and other parameters to each network station)
- DHCP/BOOTP Relay Agent (relaying of the DHCP/BOOTP requests to central server)
- firmware upgrade using TFTP
- managed or unmanaged bridge functionality
- logging through syslog
- VLAN support
- additional protection against unauthorized LAN access
- measurement of inside temperature

Additional Tahoe 682 features:

- Automatic traffic balancing between two DSL lines
- Individual throughput settings for each line (in case of quality differences between the lines)
- Automatic fall back to 2-wire transmission in case of line failure

Modem Reach:

The values below were measured on an 0.5mm diameter test line and should be treated as approximate values. The real values can differ from those provided below - they can be higher on high quality lines and lower on lines of inferior quality.

Throughput	Tahoe 681	Tahoe 682
11392 kbps	-	2600 m
8448 kbps	-	2900 m
7168 kbps	-	3200 m
6272 kbps	-	3500 m
5696 kbps	2600 m	3800 m
3072 kbps	3500 m	4200 m
2048 kbps	3900 m	5000 m
1024 kbps	5000 m	6900 m

Technical Details:

Processor	Motorola PowerPC 50MHz
Memory	4MB SDRAM, 1MB Flash
Network Protocols	TCP, IP, UDP, ICMP, TFTP, SNMP, DHCP, BOOTP, PPP, Frame Relay, HDLC, Cisco® HDLC, IEEE 802.1q
WAN Encapsulation	ATM AAL5
Dimensions	200 mm (width) x 130 mm (length) x 45 mm (height)
Power Supply	external 100-240VAC/50-60Hz power supply included optional 48 VDC power supply