Tahoe 671

2-wire G.shdsl+ modem with G.703 interface

The Tahoe 671 modem takes advantage of the latest G.shdsl technology, which allows for data transmission of up to 2048 kbps on a 2-wire (1-pair) line with greater reach than HDSL modems.

The G.703 interface has two modes of operation, framed and unframed. In the framed mode, it is possible - apart from sending the whole E1 stream, to send only a part of the E1 stream if the leased line does not allow for achieving 2048 kbps.

In addition to typical G.shdsl modulations, TCPAM-32 coding - much more efficient than the standard TCPAM-16, is provided.

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	Range
2048 kbps	3900 m
1024 kbps	5000 m
512 kbps	6900 m

Technical Details:

Processor	Motorola MC68302
Modulations	TCPAM-32, TCPAM-16, TCPAM-8, TCPAM-4, PAM-16, PAM-8, PAM-4 (2B1Q)
Dimensions	200 mm (width) x 130 mm (lenght) x 45 mm (height)
Power Supply	external 100-240VAC/50-60Hz power supply included
	optional 48 VDC power supply

Standards

G.shdsl modem, conforms to ITU G.991.2

Throughput

from 128 kbps to 2048 kbps on a 2-wire line (set with 64 kbps step)

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

TCPAM-16 and other provided to ensure compatibility with equipment of other manufacturers.

Interface

G.703 - symmetrical 120 Ω, RJ45 connector and coaxial 75 Ω two BNC connectors

Features

• built-in LCD and keyboard for easy configuration
• serial console management
• remote modem management through leased line
• external alarm monitoring