

Tenor™ VoIP MultiPath Switch

Digital Series



Tenor
MULTIPATH SWITCH

SelectNet™ provides superior voice quality

Transparent MultiPath Call Routing

Integrated H.323 gateway and gatekeeper

IVR/RADIUS AAA compliant

Stackable architecture

T1, E1, PRI interfaces

Up to 30 simultaneous VoIP calls

A more intelligent way to implement VoIP

The Tenor Digital series gives multi-location enterprises an easy, cost-effective way to capitalize on the power of Voice over IP (VoIP). The Tenor integrates a gateway, a gatekeeper, intelligent call routing and supports QoS all in one solution. With its MultiPath architecture, the Tenor connects to the data network through a 10/100 Ethernet interface, and to the enterprise and public voice network through a T1, E1, or PRI interface.

Patented SelectNet™ Technology assures high quality voice

The Tenor employs its patented SelectNet™ Technology to monitor calls for jitter, packet loss, and latency, and can transparently switch mid-call to the voice network whenever conditions demand.

More intelligence means greater flexibility.

With its MultiPath Call Routing, the Tenor can intelligently route calls between the PBX, the PSTN, and the IP network, to achieve the best combination of cost and quality. The Tenor can also route calls over IP to reduce costs, and then transparently "hop off" to the PSTN, to reach off-net locations. No other VoIP solution can match this flexibility.

More intelligence means easier installation.

With its MultiPath architecture, the Tenor is the only VoIP solution that can be installed without upgrades to the existing voice or data networks.

More intelligence means greater reliability.

The Tenor is designed to pass calls through to the existing voice network in the event of system malfunction—even a total power failure.

More intelligence means less network congestion.

With its PacketSaver™ technology, the Tenor reduces bandwidth consumption up to 50%, by combining voice packets from several calls into a single packet to minimize packet overhead.

NATAccess™ intelligence means greater security.

The Tenor VoIP MultiPath Switch also features a unique technology that allows it to operate behind NAT-enabled firewalls. The innovative NATAccess™ solution overcomes the problem of NAT firewalls not correctly translating internal IP addresses into public addresses when a VoIP call is established with an outside party.

CALL MANAGEMENT FEATURES

- Automatic call type detection: Voice/Modem/Fax
- Trunk group support
- Public and private dial plan support
- Automated load balancing
- Forced routing
- Pass-through support for calls to 800, 911, 411, etc.
- Automatic appending and stripping of digits to dialed numbers
- Call Detail Records
- Type I Caller ID delivery

TECHNICAL SPECIFICATIONS

Telephony Specifications

- Voice algorithms: G.723.1a, G.711, G.729ab
- Fax support: T.38 and Group III at 2.4, 4.8, 7.2, 9.6, 14.4 Kbps
- Coding: A-law, μ -law
- Enhanced Echo Cancellation. ITU Rec. G. 168, up to 128 msec tailsize
- PRI Signaling Protocols: National ISDN-2, Euro ISDN NET5, Japan INS-NET, KDD, 4ESS, 5ESS, DMS100
- T1/E1 Signaling: CAS/R2
- Dialing: DTMF
- Impedance: 120 Ohms balanced; T1-100 Ohms balanced

IP Network Specifications

- H.323 v.3 Gateway and Integrated Gatekeeper
- Silence suppression and comfort noise generation
- IVR/RADIUS server support for AAA
- LAN Interface: Autosensing 10/100 Mbps Ethernet
- Standard RJ-45 Interface (IEEE 802.3) for 10 Base-T or 100 Base-T connection
- QoS Support: IP TOS

Configuration / Management

- Central provisioning and management
- Web-based Graphical User Interface (GUI)
- SNMP v1, v2 Agent
- Alarm/Fault detection and reporting
- Command Line Interface
- Remote Telnet Access
- Serial Console Port: RS-232/DB-9

General Specifications

- AC Power: 100-240 Volts AC, 50/60 Hz, 25 watts
- Operating temperature: 40-122° F (5-50° C)
- Operating humidity: 20-80% noncondensing
- Emissions: EN55022:98; EN55024:98; EN61000:95 FCC Part 15 Class A, ICES-003
- Immunity: EN55024:98
- Safety: EN60950, UL 1950, CSA 22.2 No. 950; TS001:1997
- Telco: FCC Part 68, CS-03; TS016:2/34; TS038; AS/NZS 354:95; TBR4 ISDN Layer 1-3
- Dimensions: 10 ³/₄" L (27.6 cm) x 17 ³/₈" W (44.5 cm) x 1 ³/₄" H (4.5 cm)
- Weight: 7.2 lbs (3.24 kg)



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