

Tenor[®] BX Series

- MultiPath and Gateway configurations
- Available with 2, 4 or 8 BRI S/T Ports
- Up to 16 VoIP channels
- Integrated Gatekeeper and SIP B2BUA for survivability
- Intelligent Call Routing
- IVR/Radius AAA Compliant (Multi-lingual IVR)
- Support for external Quintum Call Routing Server*
- Support for external Quintum Tenor Monitor
- Support for external Remote Management Session Server*



Tenor The Tenor VoIP MultiPath Switch Offers a Robust VoIP Switching Solution For Enterprises

Quintum's Tenor switching/gateway solutions are deployed worldwide to provide highly reliable, easy-to-implement VoIP connectivity in a full range of enterprise and service provider environments. These highly adaptable solutions work with traditional PBXs, IP PBXs and IP phones, IVR and ACD systems, RADIUS servers, and other critical components of end-to-end H.323- and SIP-based communications environments. They are perfect for deploying VoIP in small enterprises, or remote offices of larger enterprises.

Tenor **BX Series** Tenor S (Survivable MultiPath Switch) Offers a Survivable Branch Office VoIP Access Solution for IP PBXs and IP Centrex

Quintum's TenorS line is a complete SIP-based VoIP solution for the branch office or for service provider customer premise equipment, providing full survivability in the event that access to the central and/or hosted IP PBX is lost. Because it delivers a complete solution in a single device - and because it offers such easy, scalable implementation and management - the Tenor S line significantly reduces the total lifecycle cost of VoIP deployment, while optimizing service reliability. Tenor S also offers PSTN connectivity for local access back up and E911 service.



A more intelligent way to implement VoIP

The Quintum[®] Tenor[®] BX MultiPath Switch offers enterprises using ISDN Basic Rate Interface (BRI) lines an easy, cost effective way to capitalize on the power of Voice over IP (VoIP). The Tenor integrates VoIP gateway functionality with its unique intelligent call routing, MultiPath architecture, and QoS support all in one solution.

Enterprises can benefit from a variety of valuable applications such as PBX extension, remote office connectivity, long distance consolidation and call centers. BX Series products can support either 2, 4 or 8 BRI lines.

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 57%, by combining voice packets from several calls into a single packet to minimize packet overhead.

More intelligence means better management

The Tenor comes with a set of easy to use configuration and management tools, including Tenor Configuration Manager (GUI) and Wizard, and the Tenor Monitor that offers realtime monitoring of alarms, call status and CDRs. Tenors can easily be remotely managed behind NAT firewalls utilizing the Tenor Remote Management Session Server.*

* Available for an additional cost

Tenor BX MultiPath Switch

CALL MANAGEMENT FEATURES

- Automatic call type detection: Voice/Modem/Fax
- Trunk group support
- Public and private dial plan support
- User programmable dial plan support
- Forced IP routing and IP port mapping
- PSTN pass-through support for calls to Toll-free, local, and special service numbers (emergency service, etc.)
- Automatic appending and stripping of digits to dialed numbers
- Call Detail Records
- Least cost routing with external Quintum VoIP Call Routing Server*
- Caller ID Name and Number

TECHNICAL SPECIFICATIONS

Telephony Specifications

- Voice algorithms: G.723.1a, G.729ab, G.711
- Auto codec negotiation
- Fax Support: Group III at 2.4, 4.8, 7.2, 9.6, 14.4 Kbps, using industry standard T.38; Super G3 compatible up to 33.6 Kbps
- Modem support with G.711
- Choice of 2, 4 or 8 BRI S/T ports
- MultiPath VoIP Switch or VoIP Gateway configurations
- Ports individually programmable to NT or TE configuration
- Standard RJ-45 connectors
- Coding: A law or μ -law
- Enhanced (Carrier Grade) echo cancellation: ITU Rec. G.168, up to 128 mSecs tail size
- Signaling protocols: Net 3 ETSI EuroISDN (TBR3), AS/ACIF S031 (Australia), New Zealand Net3 (TNZ), QSIG
- VoIP to circuit, and circuit to circuit (Tandem/TDM) switching

IP Network Specifications

- LAN interface: 1 Fast Ethernet port (10/100Base-T)
- Standard RJ-45 Interface (IEEE 802.3) for 10Base-T or 100Base-T connections
- QoS Support: IP TOS, DiffServ Code Point

VoIP Network Specifications

- H.323 v.3 Gateway and Integrated Gatekeeper+
- Support for multiple SIP User Agents (RFC3261 compliant endpoint)
- DTMF Signaling via RFC 2833 or SIP Info
- SIP Supplementary Services
- Message Waiting
- SIP Refer Method support
- IVR/RADIUS server support for AAA with integrated multi-lingual IVR+
- Adaptive Voice Activity Detection (VAD) with comfort noise generation (CNG)
- Adaptive jitter buffer
- Packet Loss Concealment
- NATAccess™ - NAT/Firewall
- Security: IP filtering
- Up to 16 simultaneous VoIP calls
- Support for DNS-SRV

Configuration / Management

- Quintum Tenor Configuration Manager (GUI) for configuration of remote individual Tenors
- Quintum Tenor Monitor (GUI) for alarm monitoring, call monitoring, and CDR monitoring
- SNMPv2 Agent
- Command Line Interface (CLI)

GENERAL SPECIFICATIONS

Dimensions: 1U High Chassis

- W 17 3/8" x H 1 3/4" x D 10 3/4"
- W 44.5cm x H 4.5cm x D 27.6cm
- Maximum weight: 8.25 lbs. (3.75kg)
- AC Power: 100-240 Volts AC, 50/60 Hz, 35 watts
- Operating temperature: 40° - 104° F (5° - 40° C)
- Operating humidity: 20% - 80% non-condensing
- Telco: TBR3, AS/ACIF S031
- EMC: EN55022, EN55024, EN61000-3-2, EN61000-3-3
- Safety: UL60950, EN60950, AS/NZS60950

Model	BRI Ports	BRI B Channels	VoIP Channels
BX204	2	4	4
BX408	4	8	8
BX816	8	16	16



Tel: 012 665 0052
Fax: 012 665 0059
qkonsa@qkon.com
www.qkon.com

8 Pieter Street
Highveld Technopark
P.O. Box 9928
Centurion, 0046