# Quintum DX Tenor DX2030 VoIP Gateway 2 x E1 & 30 SIP Channels

Product Name: Quintum DX Tenor DX2030 VoIP Gateway 2 x E1 & 30 SIP Channels Manufacturer: Quintum Technologies Model Number: 501-1116

Tenor S (Survivable MultiPath Switch) Offers a Survivable Branch Office VoIP Access Solution for IP PBXs and IP Centrex Enterprises can benefit from a variety of valuable applications such as PBX extension, remote office connectivity, long distance consolidation and call centers. Service providers can deploy numerous VoIP applications such as SIP Trunking, Wholesale VoIP Termination, Calling Cards, Tandem Switching and Least Cost Routing. Product scales from a fractional T1/E1, with 8 simultaneous VoIP channels up to a full 8 span MultiPath Switch supporting 120 simultaneous VoIP calls. Both versions of Tenor include the features that made Quintum the VoIP market value leader

• MultiPath architecture for easy integration with existing voice and data infrastructure, meaning little or no re-programming of the PBX, or upgrades are required and no need for special dialing plans.

Transparent MultiPath Call Routing to 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.
Auto Provisioning interface allows the Tenor solution to be deployed worldwide, and configured automatically by acquiring the configuration information from a central server, upon installation. The same auto-provisioning capability allows the Tenor to be configured from a VoIP application, thus supporting a single user interface between the VoIP application and the Tenor configuration.
Unified Communications Proxy (UCP) provides 'Any to Any' connectivity: SIP - SIP, TDM - TDM

and SIP - TDM, for easy integration with any network.

• Universal Dial Plan that provides a programmable dial plan so Tenor can be integrated into any network environment.

• PacketSaver™ Technology multiplexing to reduce bandwidth consumption by up to 57% by combining voice packets from multiple calls into a single packet.

• NATAccess™ to allow Tenor to operate behind NAT firewalls to translate internal IP addresses into public addresses when a VoIP call is established with an outside party.

• Remote Management for anywhere, anytime remote management even behind NAT firewalls with Quintum's Remote Management Session Server.

#### **Call Management Features**

- Automatic call type detection: Voice/Modem/Fax
- Answer and Disconnect Supervision
- Trunk group support
- Public and private dial plan support
- User programmable dial plan support
- Forced routing

• Pass-through support for calls to Toll Free, local and special service numbers (emergency services, 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.723.1 and G.729ab, G.711

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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, 6, or 8 T1/E1/PRI Spans
- Standard RJ-45 Connectors
- Coding: A-law, µ-law
- Enhanced (Carrier Grade) Echo Cancellation: ITU Rec. G 168, up to 128 msec tailsize

• PRI Signaling Protocols: National ISDN-2, Euro ISDN NET5, Japan INS-NET1500, KDD, 4ESS, 5ESS, DMS100

- T1 CAS (E&M, Loop Start, Feature Group-D, DTMF, MF)
- E1 CAS (R2 MF)
- DASS2
- Tandem/TDM switching
- Maximum Call Rate: 7,200 calls/hour
- VoIP to circuit, and circuit to circuit (Tandem/TDM) switching

**IP Network Specifications** 

- LAN Interface: 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

**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 Indicator
- 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 120 simultaneous VoIP calls
- Support for DNS-SRV

#### Configuration / Management

- Auto-Provisionable
- Quintum Tenor Configuration Manager (GUI) for configuration of remote individual Tenors
- Quintum Tenor Monitor (GUI) for alarm monitoring, call monitoring and CDR monitoring
- Remote access with external Remote Management Session Server
- SNMPv2 Agent
- Command Line Interface

### Price: £2,715.00