

P32mxi

Integrated Access Device



*P32mxi Integrated Access Device:
1.75" high x 13" wide x 7.7" deep.*

The P32mxi Integrated Access Device offers the ultimate in cost effective, feature-rich modularity, specifically designed to keep pace with today's evolving networks and emerging technologies. As communications networks become more versatile, equipment deployed today must be flexible enough to grow into these new configurations.

From a voice and data mux with 24 FXS channels, to the full 32 channel voice and data universal broadband integrator, the P32mxi provides dual T1/E1 or xDSL ports, FXS/FXO/DPT/DPO analog ports (8 cards with 4 ports each), SNMP management, Ethernet, and simultaneous operation of T1, DSL, ATM, and IP.

Small and lightweight, the system features a V.35 interface, built-in battery charger with programmable maintenance cycles, and a wall or rack-mountable battery backup system providing up to 8 hours of backup power.

With the addition of the Versapath Technology Feature Set, an industry first, and the VX expansion board, the P32mxi becomes a multi-functioned Least-Cost Router, incorporating automatic route selection, robust call screening and switching capabilities, and other basic PBX functions.

Whether on-site or at a remote location, StarCAD 9000™ graphical user interface (GUI) makes configuring the P32mxi a basic function. Later, add voice modules or swap the network module for xDSL. Then, when service requirements change, simply add the RAVE™ module, permitting access to VoIP, ATM, Frame Relay, and other advanced broadband services.

The versatile P32mxi is ideal for small to medium sized network environments.

Modular
to grow with you

Migrate
with ease

TDM to
ATM to xDSL
Switched circuit
to IP

Field-proven

Reliability

Small
footprint

fits anywhere



P32mxi

Technical Specifications

Integrated Access Device

NETWORK INTERFACE MODULES (2 per chassis)

- T1 (D4, ESF and TR-08) interface
- E1 interface
- SDSL/HDSL2/G.SHDSL interface

ANALOG INTERFACE MODULES (8 per chassis)

- Quad FXS/DPO Long Loop interface (18,000 ft. CSA); FCC approved for outside plant or interoffice use
- Quad FXS/DPO Short Loop interface (3,000 ft.)
- Quad FXO/DPT interfaces

ROUTER

- 10/100 Base-T Ethernet Port
- TCP/IP Router and Bridge
- RIPv1/v2 and Static Routing Protocols
- Frame Relay/PPP/HDLC
- DHCP Client/Server
- NAT/PAT and NAPT (IP Masquerading)
- PAP/CHAP support
- VPN Services: PPTP and L2TP
- IGMP Proxy support
- Port Filtering and Access Policy Definition
- Stateful Firewall with Denial-of-Service (DOS) Attack Detection, real-time logging and blacklisting

ATM/VOICE OVER BROADBAND

- ATM AAL2 voice, AAL5 voice and data
- BLES/VMoA and Jetstream compliant

VOICE OVER IP

- MGCP 1.0 support

VOICE COMPRESSION (with DSP Modules)

- G.711 PCM, G.726 ADPCM, G.729A CS-ACELP Compression Formats
- G.165 and G.168 Echo Cancellation (up to 32ms)

NETWORK STANDARDS

- **ATM:** ILMI 4.0; I.363.2 CPCS, I.366.1 & .2 SSCS; UNI 3.0, 3.1 & 4.0; I.610 OAM; LANE; RFC 1483/ 1577/1755 IP over ATM (IPoA); RFC 2684 MPoA; RFC 2364 PPPoA; PPPoE Relay; af-vmoa-0145
- **IP:** RFC 791/1058/1191/1723/1812; RFC 2663 (NAT/NAPT); RFC 1661/1570/2364 (PPP); RFC 1334 (PAP); RFC 1994 (CHAP); RFC 2637 (PPTP); RFC 1058/1723/2453 (RIP); RFC 854 (Telnet); RFC 1350 (TFTP)
- **Frame Relay:** FRF 1.1 & 12; Q.933 Annex A; RFC 2427

MANAGEMENT

- Configured by the StarCAD 9000™ Graphical User Interface
- SNMPv2 Management via SLIP (craft port), Network Interface (via Frame Relay or ATM), or Ethernet

SUPPORTED MIBs

RFC 1155/11571213/1901 (SNMP core); RFC 1493 (Bridge); RFC 1471/1472/1473/1474 (PPP); ILMI; RFC 2515 (ATM); LANE; RFC 2665; RFC 2863 (IF); RFC 1406 (T1/E1); Custom System MIB

POWER

- AC or DC with integrated battery charger and battery testing
- AC 95-135 VAC, 50/60 Hz
- DC input -42 to -60 VDC
- Maximum Power 90W
- Remote battery test function
- Automatic "Float" and "Equalize" for longer battery life
- Remote monitoring of internal temperature and power supply voltages
- True sine wave ringing generator

CLOCKING

Internal or Loop Timing from either trunk interface module

NETWORK STANDARDS

- T1: ANSI T1.403/AT&T 54016, 62411 & 43801
- E1: G.703, G.704, G.731, G.732, G.775, G.962, O.162, Q.421, Q.422, TBR 012 and TBR 013

REGULATORY

- NRTL Safety Listed: Certified to UL 1950, Certified to CAN/CSA C22.2 Std
- FCC Part 15 class A Radiated Emissions Control
- FCC Part 68, CS-03 Listed for connection to PSTN

ENVIRONMENT

- Operating Temperature 0° to 50° C (32° to 122° F)
- Relative Humidity 0 to 95%

SIZE/WEIGHT

- 7.7" L x 13" W x 1.75" H
- 5.4 pounds fully configured

INDIVIDUAL MODULE PART NUMBERS

- MX120** Quad FXO/DPT Module
- MX220** Quad FXS/DPO (Long Loop) Module
- MX240** Quad FXS/DPO (Short Loop) Module
- MX800** T1 Network Interface Module
- MX820** E1 Network Interface Module
- MX310** VX Board (required with RAVE Module)
- MX540** RAVE Module (Router/ATM/VoIP/Ethernet)
- MX001** DSP Modules (for Voice over Broadband/VoIP)
- BC48** Battery Cabinet

- MX400** Versapath Software
- MX410** Voice over Broadband/Voice over IP Software
- MX420** Voice Activity Detection Answer Supervision Software



100 Passaic Avenue
Fairfield, NJ 07004
1-800-835-7687

email: sales@telsource.com
www.telsource.com