

PRAXON

PHONE DATA EXCHANGE (PDX™)

SPEC SHEET

FUNCTIONS:

Administration

Setup and control via graphical browser interface, setup wizards, phone keypad (DTMF); easy moves, adds, changes; remote configuration; remote software download; remote diagnostics; SNMP traps; single setup screen per user; console port; call logging; backup via email, or file transfer protocol (FTP); single-user password

PBX Functions

Call control: hold, transfer, conference, forwarding, do not disturb; park calls, retrieve calls; Direct Inward Dialing (DID); speed dial; redial; call waiting; executive extension; one-number access; call blocking; distinctive ringing; calling line identification; overhead paging; music on hold; departmental groups; auto or manual trunk selection

User Call Control

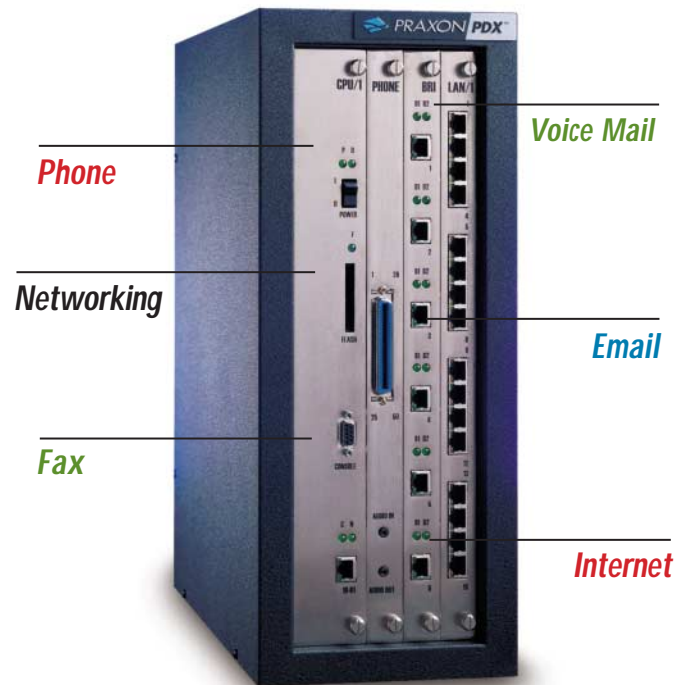
Browser based graphical interface, virtual phone application (Virtual Console™), phone keypad (DTMF), company and personal address books; dial from personal information management applications such as Microsoft Outlook, Symantec Act, Lotus Organizer; intelligent call routing based on ring busy, ring no answer, Do Not Disturb (DND), call forwarding

Auto Attendant

Multi-tiered auto attendant; multiple greetings: company, lunch, holiday, after hours; dial by name, extension, directory; auto or hot key transfer to receptionist; automatic routing of fax calls; voice mail access

Voice Mail

50+ hours of storage; individual, general, virtual mail boxes; unlimited number of voice mail boxes; control and retrieval via phone keypad, browser, email, Virtual Console; playback via telephone or PC; forward voice message via email or phone; personal greetings; password protection; remote retrieval via email, browser and phone; priority messages; notification via email, stutter dial tone, voice announcement, Virtual Console, message light on CLASS compatible analog phone; message commands: skip, repeat, fast-forward, pause, save, delete, undelete, forward, return to receptionist; configurable maximum message length



Virtual Console

Control phone functions from the desktop; graphical user interface for dialing, conferencing, transfer calls, forward calls, park calls, redial, call hold, speed dial, overhead paging; caller ID; send callers to voice mail; view status of all extensions; one key dial from extension to extension; use as a receptionist console

Internet Access

Dial up: bandwidth-on-demand, dial-on-demand, Multi Link PPP, access speed up to 128 Kbps; dedicated access: Frame Relay with access speed up to 256Kbps; firewall; compatible with DSL routers for high speed Internet access

IP Routing

DHCP/NAT, bandwidth-on-demand, MLPPP (RFC 1990), multi-destination IP routing

Intranet/LAN

Common document storage and sharing, DHCP Server, Local DNS Server, FTP Server, shared web links, company contact database

Remote Access

Analog V.34, T1 or ISDN*, PAP/CHAP password authentication

Email

SMTP and POP3 server, compatible with leading email programs; multimedia mailboxes (voice mail, email); mail aliases and distribution lists; programmable vacation/auto response; configurable retrieval times; message forwarding

*ISDN Access requires an ISDN BRI card

System Configuration Matrix

	8 Users	16 Users	32 Users	48 Users	64 Users
16 Phone Card		1		1	
32 Phone Card			1	1	2
System Card	1	1	1	1	1
16 LAN Card	optional	optional	external	external	external
Trunk/WAN Interface	Analog	BRI/T1/Analog	BRI/ T1/ Analog	BRI/ T1/ Analog	BRI/ T1/ Analog

PHYSICAL SPECIFICATIONS:

GENERAL SYSTEM INFORMATION:

• PDX Tower 3

000-00010-00

System card plus 3 Slots for Interface Cards
Up to 64 Users (phone extensions)
Hard Disk Storage: 2.5+ Gigabytes

Power Requirements

AC Input Rating

AC100-127 / 200-240V

8.0/5.0A 60/50 Hz

AC Output Rating

3.0/2.0A maximum

LED Display Lights

PWR - Power

COL - Collision

DSK - Disk activity

RDY - Ready

Console Port

Electrical: RS232D (DCE configuration)

Mechanical: DB9 female

Parameters: 9600, 8 data bits, no parity, 1 stop bit

Flow Control: None

Network Interface

Connector: RJ-45 Female

Single 10BaseT port provides 10 Mbps Ethernet connection

Weight

40 lbs. (18.1kg), net

45 lbs. (20.4kg), shipping

Dimension

H = 17.5 in. (44.5cm)

W = 7.0 in. (17.8cm)

D = 12.0 in. (30.5cm)

Regulatory Compliance

FCC Part 15, Class A

FCC Part 68: LZLUSA-25736-DE-E

CE Mark **CE 0560X**

UL Listed

Industry Canada, CSO3, Certification No.: 3289 9718 A

Australian Communications Authority, TS001 and TS031

Operating Environment

Temperature: 41°F to 104°F (5°C to 40°C)

Humidity: up to 80%, non-condensing

Storage Temperature: -40°F to +158°F (-40°C to +70°C)

Compatibility to the Praxon PDX System

Operating system

Windows NT, Windows 95/98, Unix, MacOS, OS/2

Recommended Web Browser

Microsoft Internet Explorer 4.0 or later

Netscape Communicator 4.0 or later

(Cookies enabled, Character based web browsers are not supported)

Email Application

Any POP3/SMTP client software

System Management

HTTP - industry standard web browser interface

Console - standard RS232 connection

Telnet - password protected dial-in from ISDN, T1, analog and Ethernet

SNMP Management - The SNMP agent can be managed by an

SNMP version -1 or version -2c, enterprise network

management station, such as HP OpenView, Castlerock SNMPc

MIBs: Frame Relay DTE (RFC1315), Private MIB (Praxon

Enterprise MIB - T1 Traps, System Traps), Standard Traps

(RFC 1215)

Software upgrade via web browser or FTP

INTERFACE CARDS:

• PDX FXO/FXS/DID 16 (Analog)

000-10022-00

Trunk and Phone Connectors

Two (2) 50-pin telco female connectors, 8 ports per connector

Two (2) RJ-11 connectors as failsafe ports

No. of ports:

Eight (8) analog LS/GS trunk interfaces (FXO)

Eight (8) phone interfaces (FXS) or eight (8) DID interfaces

Network interface:

Auto detection of ground start, loop start

Configurable DID or FXS interfaces

Line Signaling:

DTMF (compliant to Bellcore LSSGR)

LED Display Lights:

trunk line status

PDX analog trunk card includes four (4) v.34 modems

Line Impedance

600 Ohms, 900 Ohms or complex impedance

Tone Dialing and Detection

DTMF digits: 0-9, #, * (compliant to Bellcore LSSGR)

Incoming Routing

Caller ID, DID (compliant to Bellcore TR-NWT-000031, LSSGR)

Music On Hold/Overhead Paging

Input (Music on Hold)

3.5 mm mono/stereo mini jack; supports standard stereo

miniplug-to-RCA cable adapter for connecting to stereo source

600 ohms, nominal impedance

2.0Vp-p, typical

Output (Paging)

3.5 mm mono mini jack

600 ohms, nominal impedance

1.0Vp-p, typical

Weight

1.5 lbs. (680 g), net

2.35 lbs. (1.07 kg), shipping

Dimension

H = 15.5 in. (39.4cm)

W = 1.0 in. (2.5cm)

D = 10.5 in. (26.7cm)

PRAXON PHONE DATA EXCHANGE SPEC SHEET

• PDX T1

000-10014-00

T1 connector
Single RJ-48C female connector
Bantam monitor jack

No. of channels
Up to twenty-four (24) ports for voice or data connection

Line Type
Two twisted pair

Network Interface
Integrated CSU w/bypass capabilities
Line build out (DSX-1)
0-133ft, 133-266ft, 266-399ft, 399-533ft, 533-655ft
Line build out (CSU)
0dB, -7.5dB, -15dB, or -22.5dB

Line Rate
Fractional T1 and T1 (64Kbps - 1.544 Mbps)

LED Display Lights
Green - System Status
Red - Red Alarm
Yellow - Yellow Alarm

T1 Trunk card includes four V.34 modems

Clock source
T1 Network

Line Code
AMI, B8ZS

Line Framing
SF(D4), ESF

Protocols
Robbed Bit Signaling: A, B, C and D
E&M Wink, loop start, ground start
Frame Relay
Data Link Signaling

FDL support of ANSI and AT&T Messaging

Max Data Rate
256Kbps Frame Relay

Input/Output Impedance
120 Ohms \pm 10%

Tone Detection
DTMF digits: 0-9, #, *

Incoming Routing
ANI, DNIS

Compliance: AT&T 62411, AT&T TR 43801, AT&T TR 41458,
ANSI T1.403, ANSI T1.107, Bellcore TR-TSY-000008,
Bellcore TA-TSY-000170, Bellcore LSSGR Section 6,
LMI - T1.617 annex D and Q.933 Annex A, Q.922

Weight

1.5 lbs. (680 g), net
2.35 lbs. (1.07 kg), shipping

Dimension

H = 15.5 in (39.4cm)
W = 1.0 in. (2.5cm)
D = 10.5 in. (26.7cm)

• PDX BRI 6 (U interface)

000-10010-00

BRI ISDN Connector
Six (6) RJ-45 female connectors (one per BRI line)

No. of ports:
Six (6). Each port provides two, independent 64 Kbps
B-channels & one 16 Kbps D channel

Port Type: ISDN Type "U" Basic Rate Interface (BRI), 2B+D channels
(built in NT1s)

Line Code: 2B1Q, per ANSI T1.601-1992

Line Type: One twisted pair

LED Display Lights: Activity, synch, SPID

BRI Trunk card includes four V.34 modems

Switch Type Support:
Northern DMS
Lucent 5ESS
National ISDN-1 (NI-1)
ETSI | CTR | Net 3

Weight

1.5 lbs. (680 g), net
2.35 lbs. (1.07 kg), shipping

Dimension

H = 15.5 in. (39.4cm)
W = 1.0 in. (2.5cm)
D = 10.5 in. (26.7cm)

• PDX BRI 6 (S interface)

000-10012-00

BRI ISDN Connector
Six (6) RJ-45 female connectors (one per BRI line)

No. of ports:
Six (6). Each port provides two, independent 64 Kbps
B-channels & one 16 Kbps D channel

Port Type: ISDN Type "S" Basic Rate Interface (BRI), 2B+D channels

Line Code: 2B1Q, per ANSI T1.605-1991 and ITU-T I.430

Line Type: Two twisted pair

LED Display Lights: Activity, ready

BRI Trunk card includes four V.34 modems

Switch Type Support:
Northern DMS
Lucent 5ESS
National ISDN-1 (NI-1)
ETSI | CTR | Net 3

Weight

1.5 lbs. (680 g), net
2.35 lbs. (1.07 kg), shipping

Dimension

H = 15.5 in. (39.4cm)
W = 1.0 in. (2.5cm)
D = 10.5 in. (26.7cm)

• PDX LAN 16

000-30010-00

LAN Connector: Sixteen (16) RJ-45 female connectors

No. of Ports
Sixteen (16). Each port provides a 10 Mbps
Ethernet connection

LED Display Lights: Activity, link, partition

Compliance: IEEE 802.3, 10BaseT

Weight

1.5 lbs. (680 g), net
2.35 lbs. (1.07 kg), shipping

Dimension

H = 15.5 in (39.4cm)
W = 1.0 in. (2.5cm)
D = 10.5 in. (26.7cm)

• **PDX Phone 16**

000-20010-00

Phone Connector
Single 50-pin telco female connector
3 REN per port

No. of ports
Sixteen (16) station interfaces (FXS)
Each port provides two-wire analog connection
900 ohms, complex impedance

Music On Hold/Overhead Paging
Input (Music On Hold)
3.5 mm mono/stereo mini jack; supports standard stereo
miniplug-to-RCA cable adapter for connecting to stereo source
600 ohms, nominal impedance
2.0Vp-p, maximum

Output (Overhead Paging)
3.5 mm mono mini jack
600 ohms, nominal impedance
1.0Vp-p, typical

Voice Mail/Auto Attendant
Record/playback: μ -Law, A-Law PCM
Sample Rate: 8kHz

Device Support
Standard analog, touch-tone phones
Fax machines, Modems

Weight	Dimension
1.5 lbs. (680 g), net	H = 15.5 in (39.4cm)
2.35 lbs. (1.07 kg), shipping	W = 1.0 in. (2.5cm)
	D = 10.5 in. (26.7cm)

• **PDX Phone 32**

000-20015-00

Phone Connector
Dual 50-pin telco female connector, 16 ports per connector
3 REN per port
One (1) RJ-11 connector
Configuration Port

No. of ports
Thirty-two (32) station interfaces (FXS)
Each port provides two-wire analog connection
900 ohms, complex impedance

Music On Hold/Overhead Paging
Input (Music on Hold)
3.5 mm mono/stereo mini jack; supports standard stereo
miniplug-to-RCA cable adapter for connecting to stereo source
600 ohms, nominal impedance
2.0Vp-p, maximum

Output (Overhead Paging)
3.5 mm mono mini jack
600 ohms, nominal impedance
1.0Vp-p, typical

Voice Mail / Auto Attendant
Record / playback: μ -Law, A-Law PCM
Sample Rate: 8kHz

Device Support
Standard analog, touch-tone phones
Fax machines, Modems

Weight	Dimension
1.5 lbs. (680 g), net	H = 15.5 in (39.4cm)
2.35 lbs. (1.07 kg), shipping	W = 1.0 in. (2.5cm)
	D = 10.5 in. (26.7cm)

OPTIONAL CLIENT SOFTWARE FOR THE PDX:

• **Virtual Phone Console**

Included with PDX system software

System Requirements:
Operating System
Windows NT 4.0 or later
Windows 95 or later

IBM PC Compatible
486 processor or later, 5 MB of Hard Disk Space, 16 MB of RAM
800 x 600 resolution, 16 bit color display

• **TAPI Service Provider**

Included with PDX system software

System Requirements:
Operating System
Windows NT 4.0 or later
Windows 95 or later

Microsoft Telephony Application Programming Interface (TAPI) 2.1 or later
Personal Information Manager (PIM) supporting basic TAPI functions
IBM PC Compatible
486 processor or later, 1 MB of Hard Disk Space, 16 MB of RAM

FOR additional
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