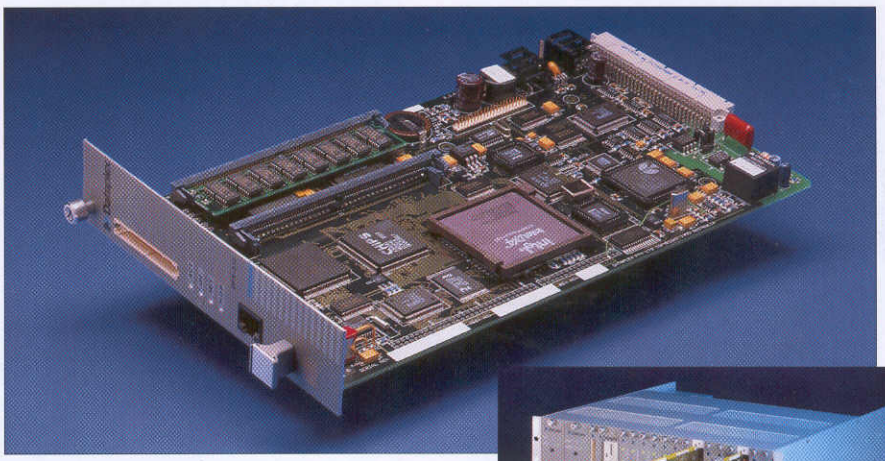
Dataplex
THE ACCESS CONNECTION

AccessPoint PROCESSOR

QUALITY EQUIPMENT
WITH ENGINEERING
SUPPORT AND SERVICE



AccessPoint-Processor is a dedicated communications processor designed specifically for the AccessPoint management and security communications system. AP-Processor integrates PC, modem and network technology to provide reliable dial-in/dial-out applications processing capability. Each AP-Processor card contains a fully operational PC, a high speed modem and high performance Ethernet network controller. This closely coupled combination offers superior performance over separate PC and modem solutions.

FEATURES

- *Integrates multiple enterprise communication services into a single enclosure*
- *Eliminates cabling complexity and reduces space requirements*
- *Fully optimised design architecture for increased performance*
- *Add and remove processor cards as required*
- *Fully compatible with AccessPoint-Manager and AccessPoint-Security*
- *Supports most LAN protocols and operating systems*
- *Non-proprietary design and fully compliant with industry standard protocols*
- *No additional components required and facility for expansion*
- *Manage any PC via a single monitor/mouse/keyboard (DPX-350 AP-Nest only)*
- *Permits connection of a second modem to double the number of dial-in/dial-out ports (via COM2)*
- *Create dedicated application servers and run DOS, Windows, Unix and OS/2 applications*
- *Use off-the-shelf, custom written or Dataplex supplied software*
- *SNMP, Ethernet and serial based management*
- *Remote management function for resetting and configuring the PC section of AP-Processor*
- *Front panel LEDs indicate PC, modem, network and HDD activity*
- *Built in video, keyboard, mouse and floppy disk multiplexor*
- *Intel 80486DX4-100 CPU*
- *HDD storage up to 400Mb and DRAM memory expandable to 128Mb*
- *Identical BIOS, memory, I/O and interrupt configurations for ease of manageability*
- *Up to eight cards in one AP-Nest*
- *Includes software drivers*
- *Dual, hot swappable power supplies (AP-Nest)*
- *Austel approved*
- *Designed/written by Dataplex in Australia*

AccessPoint-Processor is the ideal solution for teleworking, remote access, mobile access, branch office connectivity and local network access. Any application which previously resided on a networked PC can now be executed under AP-Processor (provided the PC capabilities are similar).

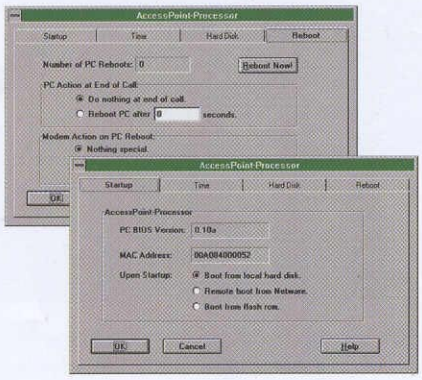
AUSTEL
Only products that carry an AUSTEL Permit have been tested to meet AUSTEL's safety and technical standards.

Communicate with Dataplex

Supports a Myriad of Applications
Example applications include an e-mail server; a gateway/router; file, print and fax servers; dedicated dial-up hosts for remote control/ remote node applications and a host of other specialty servers and applications.

Proactive Management of PC/Modem
Automatic reset of the processor on modem call disconnect/loss of carrier is fully user configurable (including the delay between loss of carrier and processor reset) and the modem section includes the standard proactive management features.

Full Management via Windows
Windows management software provides a text mode link to the PC component of AP-Processor's video and keyboard. This can then be used to run the ROM resident Set-Up utility. Also, as the system is integrated with the AccessPoint-Management system, SNMP/Ethernet/serial and remote management is possible.



Extensive Control and Configuration
From AccessPoint-Manager you can reset the PC; view/edit PC CMOS variables (such as time/date, hard disk drive information, serial numbers, BIOS versions and MAC layer address information); set call end options (such as PC reset and reset delay) and set modem action on PC reset (such as busy out until PC ready). Also, full monitoring functionality is offered. For example, PC reboots may be logged if required.

Eliminates Standalone PC Problems
As AP-Processor employs standard PC/modem technology, the PC component maintains identical BIOS, memory, I/O and interrupt configurations to other AP-Processor cards. This consistent interface ensures trouble free maintenance. AP-Processor replaces unreliable PCs not specifically designed for communications tasks and adds a sophisticated yet easy to operate management platform.

Full Security for Modem Component
Standard AccessPoint security applies to the modem component. If security is enabled for a particular slot, any dial-in user must be validated. Also, with the optional AP-Advanced Security option, Token based access, challenge response and DES based encryption is possible.

Accesspoint PROCESSOR

SPECIFICATIONS

PC Component
Processor: Intel 486 DX4/100.
Memory: 8/16 megabytes DRAM expandable to 128Mb with larger DRAMs.
Hard Drive: 2.5 inch with 400Mb storage capacity and enhanced IDE interface. Larger capacities available. Connection of a single 3.5 inch floppy disk drive possible with optional *Storage Module*.
Video Card: supports all popular resolutions, 640 by 480 in 16/256/65536 colours; 800 by 600 in 16/256/65536 colours; 1024 by 768 in 16 and 256 colours. *Not all resolutions and colour depths may be supported by all systems.*
Interfaces: COM1: permanently connected to the modem (optimised parallel interface); COM2 (16550C UART/DPX-350 AP-Nest only); LPT1 (available on DPX-350 AP-Nest only); Ethernet Adapter (NE1500T/NE2100 compatible); Local bus VGA (with Windows accelerator hardware) and PS/2 style mouse and keyboard connectors (Storage Module or DPX-350 nest).
BIOS: (upgrades possible via change of chip).
Dimensions: 40mm [w] x 300mm[d] x 177.5mm [h].
Weight: 550g (not including HDD)
Environment: 0° to 50°C, 0 to 95% humidity non-condensing.

Ethernet Interface Component
Processor: AMD Am79C960 PCNet/ISA chip. Ethernet interface is fully compatible with the NE1500T/NE2100/Am1500T/AM2100.
Drivers: Windows, Netware, OS/2 and DOS.
Interface: Unshielded Twisted Pair.

Modem Component
Data: Up to 28,800bps V.34 (supports lower speeds)
Fax: Up to 14,400bps.
Data Format: Asynchronous 10 bit character format including parity and stop bits at all rates.
Operation: Full duplex over 2 wire dial and leased lines. Automatic or manual originate or answer.
Data Compression: V.42bis with 2K dictionary, up to 400% compression. MNP 5 with selective block retransmission up to 200%.
Error Correction: V.42, LAP-M and MNP 4.
Constant Speed Interface: Autorate up to 115,200bps. RTS/CTS or Xon/Xoff flow control.
Transmit Level: -10 to -15dBm [-13dBm N.Z.].
Transmit Clocking: Internal, loop or tail.
Ring Detection: Level 50 to 150 VAC RMS, 17-68Hz.
Guard Tone: Selectable-none, 500 or 1800Hz.
Receiver Dynamic Range: -6m to-45dBm.
Equalisation: Auto adaptive equaliser.
Carrier Detect Threshold: On above -43dBm, Off below-45dBm. Hysteresis 2dB.
Answer Tone: CCITT 2100Hz.
Austel Approved
Modem operation is identical to standard DPX series modems with the exception of Synchronous DTE (only asynchronous operation is supported). Refer to the AccessPoint-Modem brochure for full modem specifications.

ORDERING INFORMATION

DPX-312-03	**AccessPoint-Processor Communications Server with DX4/100 CPU, 8Mb RAM, 400MB HDD (No FDD)**
DPX-312-04	**AccessPoint-Processor Communications Server with DX4/100 CPU, 16Mb RAM, 400MB HDD (No FDD)**

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