

- High Performance Multi-service access switch
- Wide range of ATM and other interface modules available
- Hot-swap interface modules and power supplies
- Remote configuration and testing of units over network
- Comprehensive performance monitoring & diagnostics
- All chassis units 19 inch rack-mountable



Introduction to the Metrodata APX Range

APX is a high performance multi-service access switch. It is a modular chassis-based system supporting between 3 and 9 interface modules. All interface positions offer identical features, and therefore APX has unlimited configuration flexibility with any interface module in any chassis slot.

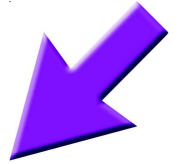
An APX consists of a system enclosure with high reliability redundant power supplies; a gigabit-speed switch processor module to service and route the traffic streams flowing through the APX; and a set of interface modules to connect and process the cell streams. The model range of APX system enclosures accommodates between 3 and 9 interface modules. A single module may offer up to 4 interface ports. The APX is thus extremely flexible and easy to configure to the chosen application.

A Management processor module is always fitted to control the APX configuration, and to carry out the required level of system supervision and monitoring. SNMP management of the APX via a LAN is optional. The complete system may be configured for service remotely via a terminal or over a LAN. Firmware updates and configuration files can be uploaded and downloaded by remote workstations.

Metrodata has developed a wide range of interface modules to permit the APX to connect to most commonly used types and speeds of traffic. Details of the module range are given later in this datasheet. All interface modules can be hot-swapped, meaning that the APX system does not have to be taken out of service for reconfiguration or repair actions.

The APX offers a wide range of both ATM and non-ATM interface modules, and also offers interfaces targeted directly at satellite backhaul applications. All popular modem interfaces, ASI, HSSI and EIA-530 are offered for both ATM and transparent circuit emulation services. Unidirectional and asymmetric services are supported with extensive alarm masking and flexible clocking functions.

APX Access Processors



APX System Enclosures

There are three APX enclosures: the AP3000, AP4000 and AP8000. They are available as table-top or 19 inch rackmounted versions



AP3000

The AP3000 shown above occupies 2U and supports up to 3 interface modules. AP3000 is available with either AC Mains or -48VDC power supply options. It offers an integral 100BaseT port for management traffic, and supports Static IP routing or transparent bridging over an ATM trunk using RFC-1483 encapsulation.



AP4000

The AP4000 shown above occupies 4U and supports up to 4 interface modules, or 5 in the AP4000L, where the Call processor is not required. AP4000 is available with either AC Mains or -48VDC power supply options, and for high reliability applications a redundant PSU is an option. It offers an integral 10BaseT port for management traffic, and supports Static IP routing over ATM when a Call Processor is fitted.



AP8000

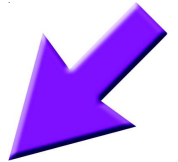
AP8000 occupies 6U and houses 8 interface modules, or 9 in the AP8000L, where the Call Processor is not required. AP8000 is available with either AC Mains or -48VDC power supplies, and for high reliability applications a redundant PSU is available. The AP8000 provides a 10BaseT port for management, and supports static IP routing over ATM only when the Call processor is fitted.

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APX Access Processors



APX System Features

At the heart of the APX is a 1.6Gbit switch fabric that provides cell buffering and multi-priority queuing. Packet based traffic is supported through the RFC-1483 encapsulation over AAL5 with early packet discard which ensures that congestion is dealt with efficiently. Circuit Emulation services are supported using AAL1 with adaptive clock recovery and jitter attenuation.

Management of the APX utilises a user friendly menu system accessed locally via a VT100 terminal, or remotely using Telnet via a LAN or ATM connection. SNMP is also available for monitoring and trap generation.

Reliability of the APX is assured through design resulting in a high MTBF, which can be further enhanced by installing a redundant power supply. Trunk redundancy is also offered with the Resilient SDH (APS Switching) ATM module. In the event of an interface module failure, the ability to hot-swap with auto-configuration ensures minimal system downtime. For ease of installation and upgrade, the configuration database may be uploaded to a server using TFTP to offer easy system restoration at a later date.

APX System Enclosures

Part No	Model	100-250 VAC Power Supply Models
80-07-003	AP3000	Single Power supply, 3 Interface module slots
80-07-101	AP4000L	Single Power supply, 5 Interface module slots
80-07-121	AP4000LR	Dual Redundant Power supply, 5 Interface module slots
80-07-001	AP4000	Single Power supply, 4 Interface module slots
80-07-021	AP4000R	Dual Redundant Power supply, 4 Interface module slots
80-07-111	AP8000L	Single Power supply, 9 Interface module slots
80-07-131	AP8000LR	Dual Redundant Power supply, 9 Interface module slots
80-07-011	AP8000	Single Power supply, 8 Interface module slots
80-07-031	AP8000R	Dual Redundant Power supply, 8 Interface module slots
Part No	Model	- 48 VDC Power Supply Models
80-18-003	AP3000	Single Power supply, 3 Interface module slots
80-18-101	AP4000L	Single Power supply, 5 Interface module slots
80-18-121	AP4000LR	Dual Redundant Power supply, 5 Interface module slots
80-18-001	AP4000	Single Power supply, 4 Interface module slots
80-18-021	AP4000R	Dual Redundant Power supply, 4 Interface module slots
80-18-111	AP8000L	Single Power supply, 9 Interface module slots
80-18-131	AP8000LR	Dual Redundant Power supply, 9 Interface module slots
80-18-011	AP8000	Single Power supply, 8 Interface module slots
80-18-031	AP8000R	Dual Redundant Power supply, 8 Interface module slots

datasheet APX Access Processors

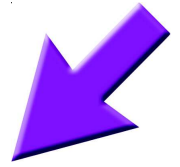
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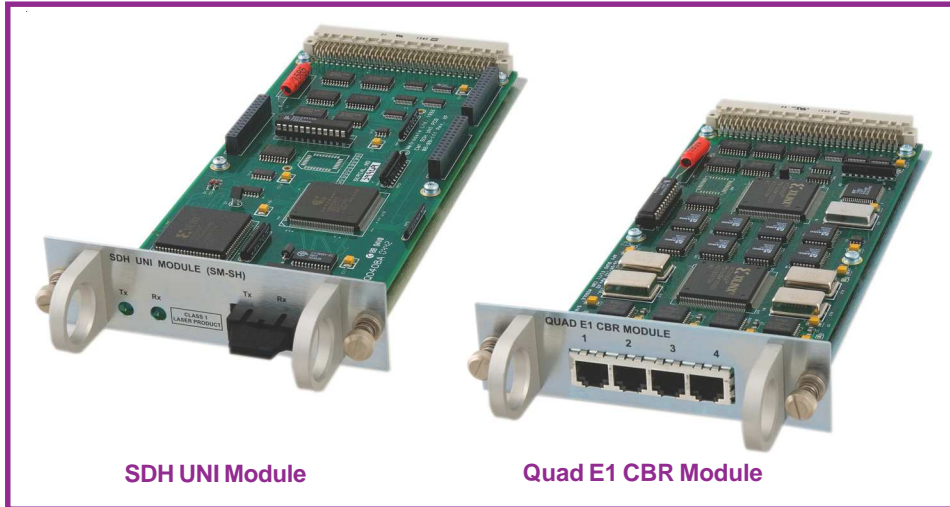
 Metrodata

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APX Access Processors



APX Interface Modules



SDH UNI Module

Quad E1 CBR Module

ATM UNI APX Interface Modules

Part No	Module Type	Part No	Module Type
80-07-201	E1 BNC	80-07-213	HSSI UNI Interface
80-07-202	E2 BNC	80-07-215	ASI UNI interface
80-07-203	E3 BNC	80-07-216	Resilient SDH Multi-mode SC short-haul
80-07-206	DS-3 BNC	80-07-217	Resilient SDH Single-mode SC short-haul
80-07-207	OC3/STM-1 Multi-mode SC	80-07-218	Resilient SDH Single-mode SC long-haul
80-07-208	OC3/STM-1 Single-mode SC short-haul	80-07-219	EIA-530 UNI
80-07-209	OC3/STM-1 Single-mode SC long-haul		

ATM CE APX Interface Modules

Part No	Module Type	Part No	Module Type
80-07-301	Quad T1 RJ45	80-07-309	HSSI Circuit Emulation Interface
80-07-302	Dual E1 BNC	80-07-332	ASI Circuit Emulation Interface
80-07-303	Quad E1 RJ45	80-07-344	EIA-530 Circuit Emulation Interface
80-07-304	Dual E2 BNC	80-07-343	ECL Circuit Emulation Module
80-07-305	E3 BNC	80-07-345	LAN Circuit Emulation Module
80-07-306	DS3 BNC		

About Metrodata

Founded in 1989 and based near London's Heathrow airport, Metrodata is a leading designer and manufacturer of datacommunications hardware for Fixed line, Satellite, Enterprise and Carrier networks. Specialising in interoperability and interconnectivity, Metrodata offers a range of Standard, Niche and Systems Integration type products. These include Media converters, Interface converters, Fibre converters, Ethernet extenders and ATM switching and Circuit emulation products. Other specialist products manage high data rates and clock sensitive applications to ensure higher network performance. Metrodata provides COTS products to the commercial, government and defence sectors, as well as developing turnkey products to specific customer requirements. For more information and data on Metrodata products, visit our web site at www.metrodata.co.uk

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