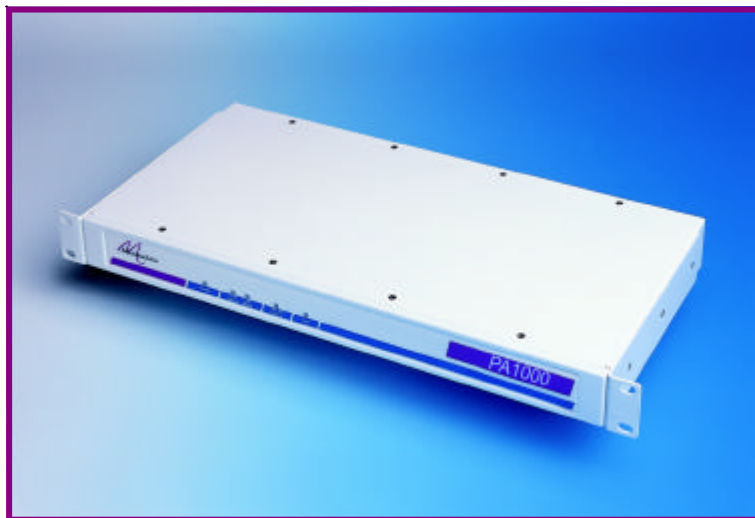


PA1000

Packet-over-Sonet POS to HSSI Converter



- Variable bit-rate for Packet-over-Sonet (POS) routers
- Connect POS core networks to legacy HSSI routers
- Router to satellite connections at up to 110 Mbps HSSI
- Asymmetric data rates: future-proofed satellite bandwidth
- Hardware - based Packet rate and Interface adapter
- Ease of migration for ISPs to develop POS router core within existing HSSI structure



datasheet PA1000

The Metrodata PA1000 converts data from byte-oriented HDLC, as used on Packet-over-Sonet (POS) interfaces, to bit-oriented HDLC as found on HSSI interfaces.

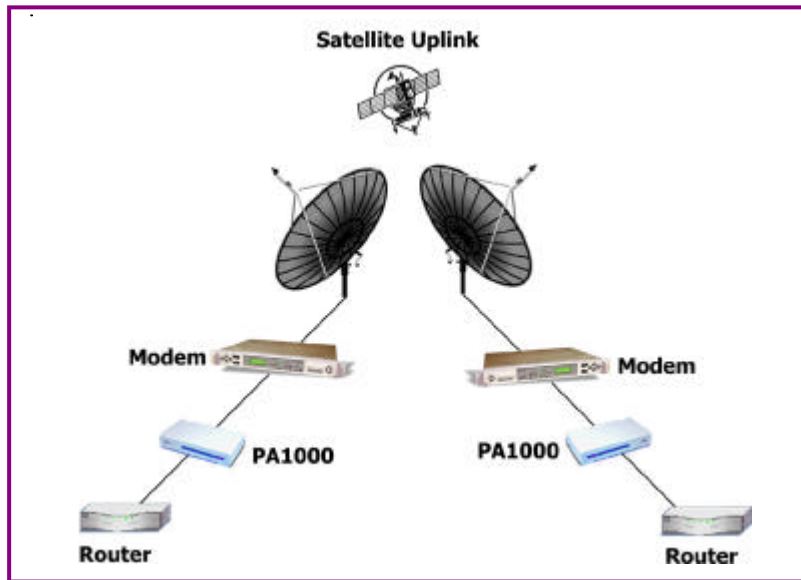
The PA1000 serves two purposes:

- it enables connection between a POS based router and a HSSI based router
- it enables a POS based router to be connected to a satellite modem and to operate at data rates below 155 Mbps

The PA1000 provides a solution for satellite operators wishing to use high performance POS based routers without the need to use valuable chassis slots for low speed HSSI serial interfaces. In addition, the PA1000 supports non-standard data rates and asymmetric operation, thus providing a flexible solution for the user.

The PA1000 rate-adapts by stripping flags out of the data stream and transporting only the actual packet data. It is transparent to packet payload and may operate with any protocol that both the POS and HSSI devices support, such as PPP and Frame Relay.

The PA1000 provides the system integrator with a simple, convenient and economic solution for the interconnection of modern high speed routers fitted with POS interfaces and older legacy routers with HSSI interfaces.



Adapting HSSI satellite modems to OC-3 POS routers with asymmetric data rates

Specifications

HSSI Port		Fibre Port	
Interface type	HSSI	Interface type	Fibre
Connector	50 way miniature AMP (SCSI-2)	Connector	Duplex SC
Mode	DCE - DTE	Fibre types	Multi-mode (MM) Single- Mode Short Haul (SM SH) Single-Mode Long Haul (SMLH)
Data rate	DCE mode: 51.84 Mbps DTE mode: up to 110 Mbps	Data rate	155 Mbit/s per G.957
Framing mode	HDLC (bit mode)	Payload	HDLC (byte mode)
Max packet size	4096 bytes	Max packet size	4096 bytes
Flags	Supports back to back frames with 1 flag between frames	Flags	Supports back to back frames with 1 flag between frames
Power supply		Environment	
-48VDC Supply	-40 to -72 VDC, 170 - 100mA	Temp	0 - 50 deg C
AC Mains	100-250 VAC, 50-400 Hz, 65 mA to 30 mA , IEC connector	Humidity	0 - 95% RH, non-condensing
Power consumption	6.5 watts approx when operating	Pressure	86-106 KPa
Compliance & Approvals		Packaging	
Safety	EN41003, EN 60950	Type	1U, 19 inch rackmount
EMC	EN55022, EN50082	Dimensions	435 x 213 x 44 mm (W x D x H)

PA1000 Part Numbers	100-250 VAC	-48 VAC
Multi-mode POS to HSSI converter	80-05-530	80-21-530
Single-mode Short haul POS to HSSI converter	80-05-531	80-21-531
Single-mode Long haul POS to HSSI converter	80-05-532	80-21-532

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 System Integrated 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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