

PFA 230 Multi-protocol Switch

Data Sheet



The PFA 230, as part of a large fully integrated Packet/Frame Relay Switch network, can act as an access node for branch office to a public or private network service. The product is ideally suited as a small-to-medium capacity multi-protocol switch, connecting remote sites to allow corporate LAN and WAN interconnection.

The product is available with up to 18 serial ports operating at speeds up to 2 Mbit/s.

The following protocol support is available: Frame Relay (UNI DTE, UNI DCE, standard-based NNI plus extended NNI for network resilience), X.25, X.75, SNA, Transparent PAD, SLIP and asynchronous.

The PFA 230 also supports IP routing or SNA over Ethernet, Frame Relay and X.25. Switched VCs, PVCs and sPVCs can all be used to connect Frame Relay interfaces. LAN interconnect is possible via two LAN ports.

An integrated ISDN BRI terminal adaptor may be used to provide permanent or backup network connections.

Software upgrading and configuration management can be carried out locally or across the network.

The PFA products can be managed from any HTTP browser or SNMP-based management system (e.g., Ericsson Multiservice Management Suite).

PFA 230 Features

- Full Frame Relay SVC/PVC support
- Call and Forwarding Priorities
- QoS support for Frame Relay voice
- Accounting
- Load Control
- Access Control
- CUGs
- Real-time Statistics
- LineTesting
- NetworkTesting
- Port Monitoring
- Address Modification
- X.25/Frame Relay backup over ISDN
- Resilient NII
- Preferential Routing
- Software Feature Sets

PFA product range

PFA 020/120
PFA 030/130
PFA 230
PFA 660

More Information

- World Wide Web:
<http://www.camtec.uk.com/>

SOFTWARE

Serial

Protocols: TCP/IP
Frame Relay (FR)
- FUI/FDI (FRF.4),
- NNI (FRF.10),
- FII (FRF.10 + Ericsson proprietary),
- FTI
- Fragmentation (FRF.12)
X.25/X.75(E)
PPP (MP/LCP)
SNA
Async
TPAD
ISDN BRI
SLIP

Encapsulations:

IP over FR (RFC 2427)
Ethernet Bridging over FR (RFC 2427)
X.25/X.75(E) over FR
SNA over FR (RFC 2427)
IP over X.25/X.75(E) (RFC 1356)
SNA over X.25
SNA/LLC2 over LAN

Connections: X.25/X.75 SVCs/PVCs/HVCs
Frame Relay SVCs/sPVCs/PVCs

Type: leased/switched

Speed: up to 2 Mbit/s

Logical: DTE, DCE, NNI

LAN

Protocols: ARP, ICMP, CSMA/CD,
SNA/LLC2, UDP, TCP/IP,
All major routed/routing protocols
with IBM functionality/Protocol
translation (2nd LAN port only)

Type: Ethernet/Token Ring

Speed: 10 Mbps (Ethernet)
4/16 Mbps (Token Ring)

IP Routing

Static
RIPv1/RIPv2
Wild-card address matching

Configuration and Software Management

Multiple configurations/software images stored in Flash
Remote software upgrade via LAN or WAN

Management

Local terminal
TELNET
HTTP
SNMP MIB II compliant
Multiservice Management Suite (MMS)

HARDWARE

Ports

Serial: 1 to 18
LAN: 2
Config: 1

Serial POP PAKs

X.21/V.11, V.24/V.28, V.24/V.35, V.24/V.36,
(all as DTE and DCE), Transparent ISDN BRI,
G.703 64Kbit/s (co-dir), G.703 2Mbit/s BNC (75 y),
G.703/2 Mbit/s RJ45 (120 y), G.703/G.704, FE1, FT1

LAN POP PAKs

10BaseT, 10Base2, STP/UTP Token Ring

Processing

Processor: MC68EC030

Memory: 16 Mbyte DRAM
4 Mbyte FLASH

Power and Operating Environment

Hot-swappable Cooling Fan.

Power: 100 to 240 V AC (75 W)
48-60 V DC nominal (60 W)

Dimensions: 440x206x356 mm WHD (desktop)
483x191x356 mm WHD (19" Rack 5U)

Weight: approx. 12 kg

Environment: Temp. range 0 to +40°C

Approvals

Safety: EN60950
IEC950

EMC: EN55022 Class B (Emission)
EN61000-4-2
EN61000-4-3
EN61000-4-4
EN61000-4-6

Telecoms: CTR2
CTR3
CTR12

ISDN: A120368F
UK:- B A B T / 9 5 / 2 2 5 8 A A 6 0 5 0 4 2
France:-
9 5 3 5 0 B e d i t i o n A D o s s i e r 7 3 8 8 6 T D
Australia:- A 9 5 / 7 9 / 0 3 5 7