

# PFA 020/120 Compact Multi-protocol FRAD Data Sheet



PFA 020/120 products are members of the Multi-protocol Frame Relay Switch Family. Although they are cost-effective compact products, designed to offer connectivity services for a diverse combination of workstations, they offer the same powerful functionality and features of higher specification PFA products such as the PFA 230 and PFA 660.

The products, ideally suited to a CPE environment, act as an access node for branch office to a public or a private X.25 or Frame Relay network service.

The PFA 020 supports three serial ports while the PFA 120 offers two serial ports plus a LAN port. For example, one serial port can be used for a Frame Relay or X.25 trunk connection, the second for dial-up backup via ISDN BRI and the third as a LAN port for Ethernet-connected multi-user access. Each serial port operates at speeds up to 2 Mbit/s.

These products support three software feature sets: X.25, Frame Relay and Extended (full functionality). The software includes Frame Relay (UNI DTE, UNI DCE, standard-based NNI plus extended NNI for network resilience), X.25/X.75, SNA, Transparent PAD, PPP (MP/LCP), SLIP, asynchronous and TCP/IP routing. TCP/IP or SNA can be carried over Ethernet, X.25 or Frame Relay or X.25 using the industry standard methods.

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

PFA 020/120 can be managed from any HTTP browser or SNMP-based management system (e.g., Ericsson Multiservice Management Suite).

## PFA 020/120 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
- Line Testing
- Network Testing
- 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)  
SNA  
PPP (MP/LCP)  
ISDN BRI  
Async  
TPAD  
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

Type: Ethernet

Speed: 10 Mbps

### 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 3 (PFA 020)  
Serial: 1 to 2, LAN: 1 (PFA 120)  
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 2 Mbit/s BNC (75 y),  
G.703 2 Mbit/s RJ45 (120 y), FE1, FT1

### LAN POP PAKs

10BaseT, 10Base2

### Processing

Processor: MC68EC020

Memory: 8 Mbyte DRAM  
2 Mbyte FLASH

### Power and Operating Environment

External PSU architecture

Power: 90 to 264 V AC (25 W)

Dimensions: 333x68x223 mm WHD (desktop)

Weight: approx. 3.7 kg (incl. external PSU)

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:- BAPT/95/2258 AA605042  
France:-  
95350 B edition A Dossier 73886 TD  
Australia:- A95/79/0357