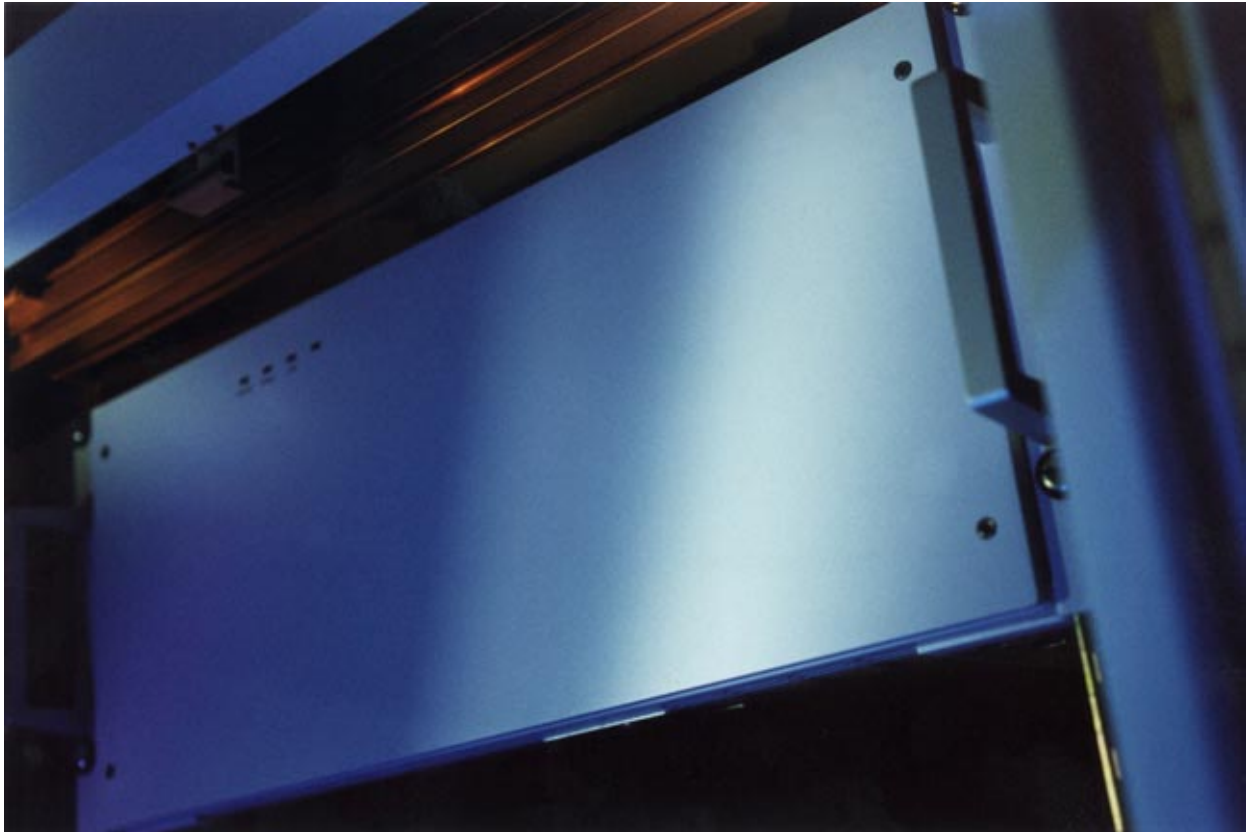


AXD 330 Frame Relay Switching System



The AXD 330 has been designed to fulfil a need for a dependable cost-efficient Frame Relay product for use in General Packet Radio Service (GPRS) and other data backbones.

The demand for improved mobile internet connection has meant that existing 1st-generation GSM networks require data capability to offer improved connection rates of up to 155.2 kbit/s (8x14.4kbit/s). This demand is met with GPRS technology.

The AXD 330 is ideally suited to small- and medium-sized internal GPRS data backbones where dependable data connections between Base Station Controllers (BSCs) and Serving GPRS Service Nodes (SGSNs) are essential. Up to 18 Frame Relay fractional interfaces (31x64 kbit/s) are supported per AXD 330.

The AXD 330 can also act as a high-performance Frame Relay access product for concentration of Frame Relay traffic into ATM networks. Encapsulation of IP, Ethernet and legacy traffic is possible over Frame Relay. As a result, the product complements the Ericsson AXD 301 ATM Switching System by acting as a Frame Relay concentrator. Redundancy of AC or DC PSUs is a vital feature in public carrier networks.

Implementation of FRF.1, FRF.2, FRF.4, FRF.5 and FRF.10 allows PVC, SPVC and SVC provisioning (up to 1023 circuits per AXD 330). These can be connected to UNIDTE, UNIDCE and NNI interfaces.

The AXD 330 WWW interface can be managed from any HTTP browser or SNMP-based management system. It has been optimised for use in conjunction with the AXD 301 ATM Switching System with respect to usability and appearance.

AXD 330 Features

- Full Frame Relay
SVC/sPVC/PVC support
- Load Control
- Access Control
- Real-time Statistics
- Line Testing
- Network Testing
- Port Monitoring
- Address Modification
- Preferential Routing
- Easy-to-order Sales Objects

SOFTWARE

Serial

Protocols: Frame Relay
- FUI/FDI (FRF.1/FRF.4)
- NNI (FRF.2/FRF.10)
- FTI
FRF.5 Network Interworking
X.25/X.75(E),
SLIP, PPP (MP/LCP),
SNA, Async, TPAD

Encapsulations:

Frame Relay over ATM (FRF.5)
IP 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/LLC2 over LAN
SNA over X.25

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

Type: leased/switched

Speed: up to 2 Mbit/s;
two ports up to 8 Mbit/s

Logical: FR UNI DTE, FR UNI DCE, FR NNI

LAN

Protocols: ARP, ICMP, CSMA/CD, Bridging,
SNA/LLC2, UDP, TCP/IP

Type: Ethernet

Speed: 10 Mbit/s (Ethernet)

ATM

Protocol: ATM UNI 3.1

Rate Adaption: UBR or VBR (GCRA)

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

HARDWARE

Ports

Serial: 1 to 18
LAN: 1
ATM: 1
Config: 1

Serial POP PACKs

Fractional n x 64K E1 (FE1)/Unchannelised E1*
Fractional n x 64K T1 (FT1)/Unchannelised T1*
X.21/V.11 DTE/DCE
V.24/V.28 DTE/DCE
V.24/V.35 DTE/DCE
V.24/V.36 DTE/DCE
G.703/G.704 Channeliser
*120 W only. For 75 W use Balun conversion.

LAN POP PACK

10BaseT

ATM POP PACKs

E3 (G.832 and G.751)
DS3 (PLCP or HEC-based mapping)

Processing

Processor: Intel RISC

Memory: 16-32 Mbyte Packet DRAM
8 Mbyte FLASH
2 Kbyte FRAM

Power and Operating Environment

Redundant Power Supplies (2xAC or 2xDC)
Hot-swappable Cooling Fan

Power: 100 to 240 V AC
48-60 V DC nominal

Dimensions: 440x206x356 mm WHD (desktop)
483x191x356 mm WHD (19" Rack)
498x191x356 mm WHD (21" Rack)

Weight: approx. 12.5 kg

Operating temp.: 0 to 40°C

Approvals

Safety: EN60950
IEC950
UL1950

EMC: EN55022 Class B (Emission)
EN61000-4-2
EN61000-4-3
EN61000-4-4
EN61000-4-5
EN61000-4-6
EN61000-4-11
ETS300-132-2

Telecoms: CTR2
CTR3
CTR12