

FRM220A-Eoe1

Ethernet Bridge over E1



The FRM220A-Eoe1 is a slide-in card E1 Ethernet Bridge for cost-effective connection of 10/100Base-T(X) or 100Base-FX LANs over E1 transports. The FRM220A-Eoe1 transmits up to a 2.048Mbps Ethernet bridge channel (HDLC encapsulated) over E1 links. The FRM220A-Eoe1 supports an E1 attenuation of up to 43 dB on twisted pair or coax cable. This provides an approximate operating range up to 2km (using 22AWG). The FRM220A-Eoe1 fully meets E1 specifications including ITU-T G.704 and G.823. The FRM220A-Eoe1 features diagnostic capabilities for performing remote loopback. The operator at either end of the line may test both the FRM220A-Eoe1 and the line in the digital loopback mode. The Ethernet copper interface supports auto-negotiation and auto MDI/MDIX, allowing plug-and-play Ethernet connection without any additional configuration.

Features

- ◆ Connects one Fast Ethernet over E1 links (64k~2048Kbps)
- ◆ Built-in HDLC bridge operates at WAN rate
- ◆ Auto-Negotiation
- ◆ Unbalanced E1/BNC or balanced E1/RJ45
- ◆ Fully compatible with FRM220A and FRM220 chassis
- ◆ SNMP management with FRM220A and FRM220 chassis
- ◆ LED Alarm indication
- ◆ Standalone RS232 console management via CH01M

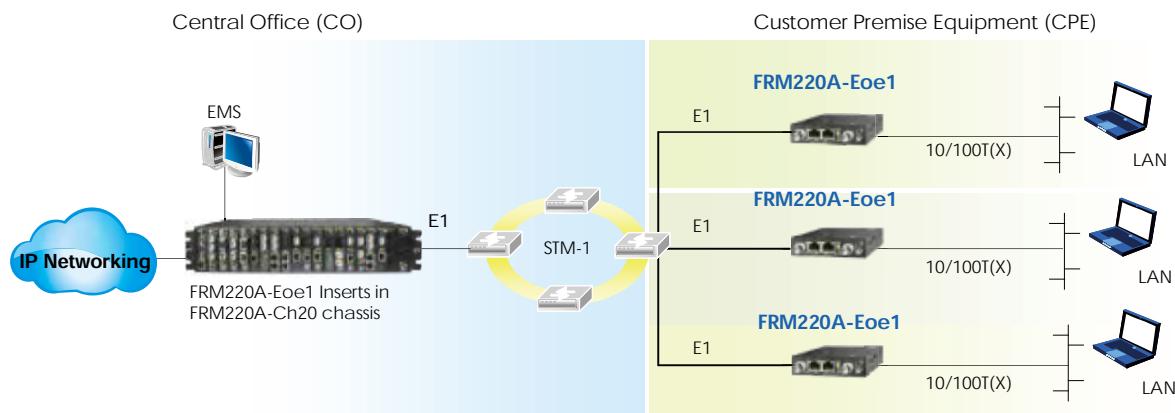
Specifications

E1 Interface	Framing	framed / unframed	Indications	Power, ALM, E1 signal loss, E1 Alarm (AIS, LOF, RAI, LOMF), LAN link /ACT, 10/100M, SD (100Base-FX)
	Standard	ITU-T G.703/G.704/G.706 & G.732, G.823	Power Input	AC adapter : 100~240VAC to 12VDC
	Bit rate	2.048Mbps± 50ppm		AC 100 ~ 240V, DC -18 ~ 75V
	Line code	HDB3	Power Consumption	< 12W
	Clock setting	Internal OSC or recovery clock	Dimensions	DC12 : 160 x 88 x 24mm (D x W x H) AC/DC48/AD : 201 x 135 x 35mm (D x W x H)
	Receive level	-43dB	Weight	130g
	Line impedance	75 ohm (BNC) / 120 ohm (RJ45)	Temperature	0 ~ 60°C (Operating), -10 ~ 70°C (Storage)
	Jitter Performance	Complies with ITU-T G.823	Humidity	10 ~ 90% RH (non-condensing)
	Pulse Mask	Complies with ITU-T G.703	Certifications	CE, FCC, RoHS
	Pulse amplitude	Nominal 2.37V ± 10%	MTBF	65,000 hrs
	Delay Variance	220ms		
	Connector	RJ45, BNC		
	Diagnostics	Digital remote loopback		
Ethernet Interface	Standards	IEEE 802.3, 802.3u		
	Data rate	10/100Base-TX, Half/Full duplex		
	Connector	RJ45 10/100Base-TX		

Application

Managed E1 Bridge

Delivering point-to-point Fast Ethernet service across E1 circuits



Ordering Information

Model Name	Description
FRM220A-Eoe1	10/100Base-T(X) to E1 HDLC bridge

Note: The card is suitable for use in CH01M standalone chassis.