

FRM220A-Eoe1/G

Ethernet Bridge over E1

- HDLC
- MTU 2046bytes
- Unframed E1

The FRM220A-Eoe1/G is an Ethernet over E1 Bridge for cost-effective connection of 10/100Base-TX LANs over a single E1 transport. By using standard HDLC encapsulation, the FRM220A-Eoe1/G is able to transmit up to a 2M bits Ethernet over an E1 link. The FRM220A-Eoe1/G supports an E1 attenuation of up to 43 dB on twisted pair or coax cable, which provides an approximate operating range up to 2km (using 22AWG). The FRM220A-Eoe1/G fully meets E1 specifications including ITU-T G.704 and G.823. The Ethernet copper interface supports auto-negotiation and auto MDI/MDIX, allowing plug-and-play Ethernet connection without any additional configuration. When placed in FRM220 system, the Ethernet may be aggregated to the chassis's built in Ethernet switch. When placed in a single slot chassis and used standalone without management, the card may be configured by serial terminal.

Features

- Connects one Fast Ethernet over E1 links (2.048Mbps)
- Built-in bridge operates at WAN rate
- Auto-Negotiation

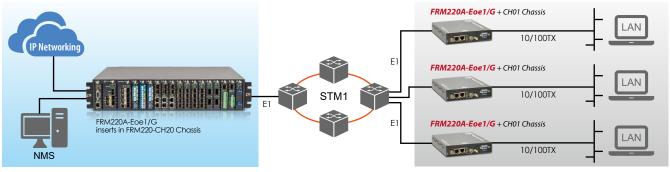
- Unbalanced E1/BNC or balanced E1/RJ45
- LED Alarm indication
- Standalone RS232 console management via CH01M

Specifications

E1 Interface	Framing	Unframed
	Standard	ITU-T G.703/G.704/G.706 & G.732, G.823
	Bit rate	2.048Mbps± 50ppm
	Line code	HDB3
	Clock setting	Internal OSC or recovery clock
	Receive level	-43dB
	Line impedance	75 ohm (BNC) / 120 ohm (RJ-45)
	Jitter Performance	Complies with ITU-T G.823
	Pulse Mask	Complies with ITU-T G.703
	Pulse amplitude	Nominal 2.37V ± 10%
	Delay Variance	220ms
	Connector	RJ-45, BNC
Ethernet Interface	Diagnostics	Digital remote loopback
	Standards	IEEE 802.3, 802.3u

Ethernet Interface	Data rate	10/100Base-TX
	MTU	2046bytes
Connector	RJ45	10/100Base-T
Indications	Power, ALM,E1 si LAN link /ACT, 10	ignal loss ,E1 Alarm (AIS, LOF, RAI, LOMF), D/100M
Power Input	12VDC	
Power Consumption	< 6W	
Dimensions	159.5 × 20.8 × 88	Bmm (D×W×H)
Weight	DC12:280g AC	/DC 48/AD : 580g
Temperature	0 ~ 50°C (Operat	ting), -10 ~ 70°C (Storage)
Humidity	10 ~ 90% RH (no	n-condensing)
Certifications	CE, FCC, RoHS co	ompliant
MTBF	65,000 hrs	

Application



Central Office (CO)

Customer Premise Equipment (CPE)

Ordering Information

Model Name	Description	
FRM220A-Eoe1/G	10/100Base-TX to E1 bridge operates at WAN	