In-band Managed Platform FRM220

In-Band Management Meida Converters for Broadband and Data Networks

This document specifies the functional as well as operation & maintenance requirements of the In-band media converters for broadband and data network. A major application of media converters is to make use of optical fiber as the transmission media for extending the reach of the following interfaces between two locations. Media converters are deployed in pairs, typically between a two CO sides or bewteen a CO and CPE location or between two CPE location. The media converter should be transparent to Layer 2 and Layer 3 protocols including, IEEE 802.1q, VLAN tag, Spanning Tree Protocol IPX IP etc.



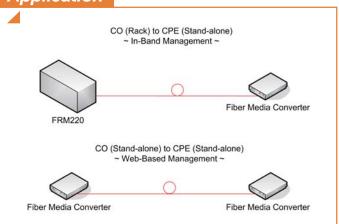




Features

- Local/Remote Module Control Auto/Speed/Duplex
- Full Wire Speed In-Band Diagnostic (Loop back Test)
- TFTP on-line f/w upgrade
- NTP Client
- Bandwidth Control Configuration (Egress/Ingress)
- Support Link Pass Through
- Configuration DIP Switch Support Auto/Speed/Duplex/Auto MDIX/MDIX
- Remote Management support Console/Telnet/SNMP V.1&V.2
- Supports Web Management
- OAM frame compatible with TS-1000 inband management
- CO/CPE Line cards swappable

Application



Ordering Information

FRM220-CH20
FRM220-AC
FRM220-DC24
FRM220-DC48
FRM220-NMC
FRM220-NMC

FRM220-110
FRM220-110
FRM220-110
FRM220-210

2U, 19", In-band Managed Rack, host up to 20 slots
90 ~ 264 VAC power supply module, IEC connector
18 ~ 36 VDC power supply module, 3 pin terminal block
36 ~ 72 VDC power supply module, 3 pin terminal block
Network Managed Card, support console RS-232 port
and 10/100Base-T Ethernet port, w/Web, SNMP/MIB file
Non-Managed, 10/100Base, Silde-In Card
In-band Managed, 10/100Base, Silde-In Card



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Specifications

Physical Unit Specif	ication	
Compliance	CE, FCC	
Central Office Unit		
Pow er Supply	1+1 Redundancy mode, Hot-sw appable	
	DC	24~72VDC
	AC	100~240VAC
		(Frequency:50~60Hz)
Chassis	2U, 19", Rack-mount type	
Card Module	Hot-sw appable card type design	
LEDs	PWR, Link, ACT, SPD, Duplex	
Fan tray	Removable type for ease maintenance	
Remote Unit		
Pow er Supply	DC	24~72VDC
	AC	100~240VAC
		(Frequency:50~60Hz)
Temperature	0-60oC (operating)	
	0-70oC (storage)	
Humidity	5-95% with condensation	
LEDs	PWR, Link, ACT, SPD, Duplex	
Wall Mount	With wall mount clamp	
Interface Specificati	ons	
Local Interface		
FE media converter	- 10/100Base-	TX to 100Base-FX
Auto detect cross/s	traight cable	
Operating mode	Fixed, 10M/Half, 10M/Full, 100M/Half, 100M/Full	
Auto negotiation of		
•		s must set by configurations
MTU	2046 Bytes	
GbF media converte	er - 10/100/100	0Base-TX to 1000Base-FX
Auto detect cross/s		2400 1710 10002400 171
Operating mode		
operating mode	1000Mfull	
Auto negotiation of		nd half/full deplex
•		s must set by configurations
MTU	2046 Bytes	
WAN Interface	20 10 27 100	
Wavelength	850nm, 1310nm, 1550nm,	
Optical connector	SC/PC	
Fiber type	9/125um single mode; 62.2/125um multi-mode	
Tiber type	5/ 125um 3mg	

Slide-in Line Card Modules	
FRM220-10/100-ST 002	ST, 2Km, 1310nm, 11dB
FRM220-10/100-SC 002	SC, 2Km, 1310nm, 11dB
FRM220-10/100-ST 020	ST, 20Km, 1310nm, 12dB,
FRM220-10/100-SC 020	SC, 20Km, 1310nm, 12dB
FRM220-10/100-ST 040	ST, 40Km, 1310nm, 20dB
FRM220-10/100-SC 040	SC, 40Km, 1310nm, 20dB
FRM220-10/100-ST 060	ST, 60Km, 1310nm, 28dB
FRM220-10/100-SC 060	SC, 60Km, 1310nm, 28dB