H0FL-EthMux P16 E1/T1 over Ethernet Multiplexer (TDM over IP)



Product Overview:

As a cost effective solution for the traditional telecom services migrate to the IP packet networking technology, HOFL-EthMux P16 adopts the innovative TDM over IP technology, with IP circuit emulation that supports transportation of 8~16 E1s and 5 GE electrical ports and 1 GE optical port. 2 uplink electrical Ethernet ports can provide power(55V, DC) for remote devices. The uplink ports and user data ports are IEEE 802.3 compliant, 10/100/1000M auto-sensed Ethernet ports.

State-of-the-art design provides the highest availability with the accurate timing signal and data bit stream reconstruction. Predefined system parameter profiles that according to different application requirement; ultimately simplify the installation process and saving the maintenance cost.

HOFL-EthMux P16 could work together with other members in HOFL-Ethmux family such as EthMux V16, EthMux V8, EthMux V804, EthMux V802, EthMux V801 etc. to run legacy E1 services. Telecom and Enterprise users can save a lot of access and equipment costs and generates new revenue by offering different types of services over their packet-switched infrastructure. It is also suitable for connecting to the wireless equipment to achieve fast deployment of E1/T1 services. One particular application is to build E1/T1 links with low cost Wireless LAN bridges, replacing much more costly microwave radios. Operators can use HOFL-EthMux to provide legacy TDM services over wired or wireless Ethernet/IP network.

Features

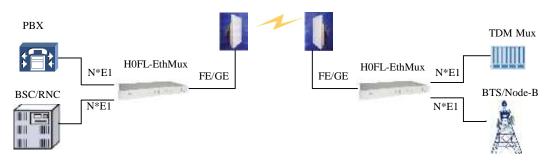
- 1. Provide 5 GE electrical ports and 1 GE optical port, 6 GE ports serve as network uplinks or users ports.
- 2. 2 uplink electrical Ethernet ports can provide power (55V, DC) for remote devices (Power Over Ethernet)
- 3. Support Ethernet uplink port 1+1 protection
- 4. User-friendly Web server supported for easy setup and maintenance, alarm log provided
- 5. Support SNMP V1/V2 network management
- 6. Ethernet built-in layer 2 switch, support VLAN, comply with IEEE 802.3x, 802.1P
- 7. Provide two pluggable E1 cards, each card supports 8 E1/T1s
- 8. Point to point and point to multipoint supported
- 9. Stable E1/T1 clock recovery, low jitter and wander
- 10. Low processing delay for E1 channels, high bandwidth usage efficiency
- 11. Resist to packet loss, with PCM frame synchronization protection

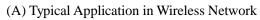
- 12. User definable encapsulation packet size for different application
- 13. Support Ethernet encapsulation and UDP/IP protocol encapsulation.
- 14. Support VLAN settings for E1 service and in band VLAN management.
- 15. Enough jitter buffer to resist packet delay variation (PDV)
- 16. Local Ethernet port throughput limiting, assuring E1 QoS
- 17. 120Ω balanced E1/T1 port, RJ-45 connector, support 75Ω unbalanced port through outside converting cable.
- 18. Support cascade concatenate for more than 16 E1 ports
- 19. Software and hardware online upgrade
- 20. Power supply redundancy
- 21. POE power supply supported by power module with 220V AC input and 55V DC output.

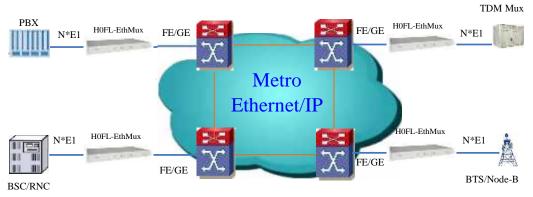
Technical Specifications

Item	Description				
Model	HOFL-EthMux P16	5 GE electrical ports and 1 GE optical port, 16 E1s			
Interfaces	IP ports	5 GE electrical ports and 1 GE optical port			
		Comply with IEEE 802.3, 802.1Q, 802.1P			
		Speed and duplex auto-negotiation or manual			
	E1 Ports	16 E1 Ports Supported			
		Comply with G.703			
		Impedance: E1-120 or 75			
	T1 Ports	16 T1 Ports Supported			
		Comply with G.703			
		Impedance: 100			
NM port	Same as IP ports	Web server and SNMP management supported			
Power	Supply	Pluggable dual power supply			
		2DC or 2AC or DC+AC			
		-48V~-72VDC or 100~240VAC			
	Consumption	15W			
Working Environment	Temperature	0~ 50°C			
	Relative Humidity	90% (non-condensing)			
Dimension	W x H x D (mm):	440 x 44 x 231			

Typical Application







(B) Typical Application in Wired Network

Interoperability Table with Wireless Bridges

LOGO	Manufacturer	Country of Origin	Model		
	MOTOROLA	USA	PTP100 Series, PTP200		
			Series, PTP300 Series,		
			PTP400 Series, PTP 500		
			Series, PTP600 Series		
	Alvarion	Israel	BreezeNET B Series B10,		
			B14, B28, B100, B300,		
			BreezeNET DS.11 etc		
	Proxim	USA	Tsunami™ QB-8100		
			Series and QuickBridge		
			Series		
	Infinet Wireless	Russia	InfiLink, InfiLink 2x2 etc		
firepro	Firepro Wireless	India	LR1R-H1, LR1R, SR series		
Note: More wireless bridges are supported					