



Brief Introduction

As a cost effective solution for the traditional telecom services migrate to the IP packet networking technology, H0FL-EthMux V16 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. 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.

H0FL-EthMux V16 could work together with other members in H0FL-Ethmux family such as 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 H0FL-EthMux to provide legacy TDM services over wired or wireless Ethernet/IP network.

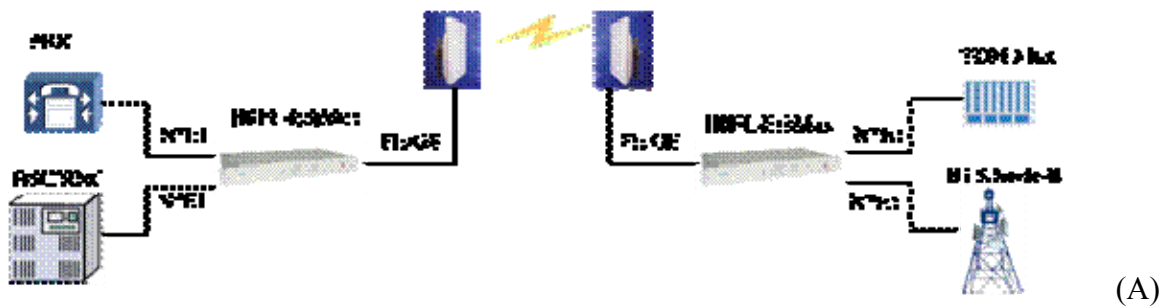
Features

1. Provide 5 GE electrical ports and 1 GE optical port, 6 GE ports serve as network uplinks or users ports, Anyone of 5 GE electrical ports may act as NM port
2. Support Ethernet spanning tree protocol which enable normal work and protection in ring and mesh topology, protection resume in short time
3. User-friendly Web server supported for easy setup and maintenance, alarm log provided
4. Support SNMP V1/V2 network management
5. Ethernet built-in layer 2 switch, support VLAN, comply with IEEE 802.3x, 802.1P
6. Provide two pluggable E1 cards, each card supports 8 E1/T1s
7. Point to point and point to multipoint supported
8. Stable E1 clock recovery, low jitter and wander
9. Low processing delay for E1 channels, high bandwidth usage efficiency
10. Resist to packet loss, with PCM frame synchronization protection
11. User definable encapsulation packet size for different application
12. Support Ethernet encapsulation and UDP/IP protocol encapsulation.
13. Support VLAN settings for E1 service and in band VLAN management.
14. Enough jitter buffer to resist packet delay variation (PDV)
15. Local Ethernet port throughput limiting, assuring E1 QoS
16. 120Ω balanced E1/T1 port, RJ-45 connector, support 75Ω unbalanced port through outside converting cable.
17. Support cascade concatenate for more than 16 E1 ports
18. Software and hardware online upgrade
19. Power supply redundancy
20. POE power supply supported by power module with 220V AC input and 55V DC output.

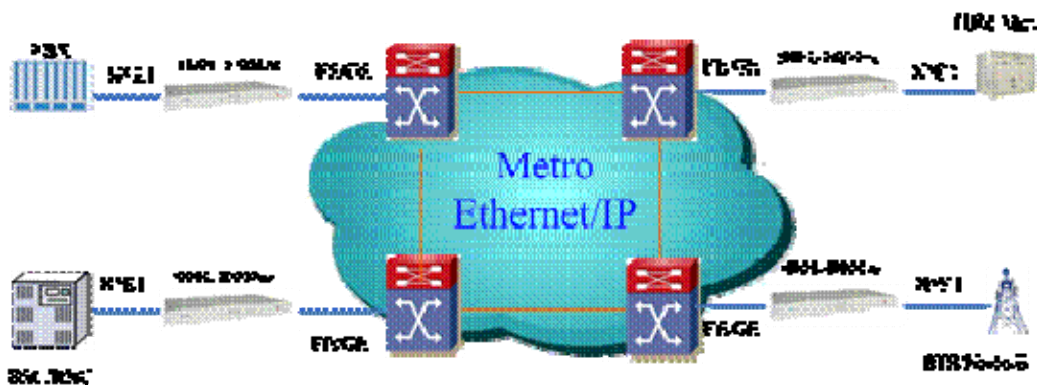
Technical Specifications

Item	Description	
Model	H0FL-EthMux V16	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: E1-120Ω or 75Ω
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



Typical Application in Wireless Network



Interoperability Table with Wireless Bridges

LOGO	Manufacturer	Place	Model
 <p>MOTOROLA intelligence everywhere™</p> <p>CANOPY™ Motorola Wireless Internet Platform</p>	MOTOROLA	USA	CANOPY PTP600, 500, 400, 300, 100 Series (Formerly Canopy 10/20M, 30/60M, 150/300M Backhaul Modules).
 <p>alvarion We're on your wavelength.</p>	Alvarion	Israel	BreezeNET Series B100, DS.11 etc, BreezeAccess Series LB etc
 <p>proxim WIRELESS NETWORKS</p>	Proxim	USA	Tsunami™ QuickBridge series, Tsunami™ MP.11 Series
 <p>InfiNet wireless</p>	Infinet Wireless	Russia	SkyMan NG
 <p>firepro wireless</p>	Firepro Wireless	India	Firepro Wireless all series
<p>Note: The series TDM over IP products have excellent interoperability which could work with most of prevailing wireless bridges. More wireless bridges are not listed since space is limited.</p>			