

H9MO-LMFE Mini SDH Multiplexer

[Datasheet](#)

Product Overview

H9MO-LMFE is a carrier-class, cost-effective, compact (only 1U high), STM-1/STM-4/STM-16 SDH/MSP platform that is designed for application in metro and access networks to facilitate the efficient transport of traditional TDM and emerging data traffic for service providers.

H9MO-LMFE is a card based compact SDH equipment, designed mainly as a gateway node between the core SDH network and a number of remote CPE boxes. It may also be used as a multi service SDH ADM node in a typical ring or mesh network. The 1U high 19" wide chassis of the H9MO-LMFE has 8 slots, with 2 slots for the DC (1+1)/AC power supply, 1 slot for network management card, 1 slots for STM-1/STM-4/STM-16 uplink, and 4 slots left for services (STM-1, Ethernet, E1, E3/DS3, V.35 Etc.).

H9MO-LMFE supports multiple SDH network features as follows:

- Support 1+1 MSP, SNCP protection
- Management channel can be DCC/E1/VC12
- Support up to STM-16
- E1 BERT test is embedded
- Internal clock/external clock/line clock/clock holdover
- Ethernet service supporting GFP encapsulation, VC12 virtual concatenation and LCAS, P VLAN, 802.1Q VLAN and QinQ
- 64 remote site's Ethernet over 8*E1 aggregation
- 252 remote site's Ethernet over 1*E1 aggregation
- 64 Ethernet over SDH aggregation

H9MO-LMFE supports the following services on different ports:

- STM-1o/STM-1e/STM-4/STM-16
- GE/FE(Optical and Electrical)
- E1/V.35/E3/DS3

Hardware Architecture

H9MO-LMFE is composed of aggregation card and tributary service card. There are 8 slots, including 2 slots for hot standby power cards, 1 slot for management card, 1 slot for SDH cross-connection cards, and 4 slots for tributary cards.

The cards are compatible with H9MO-LMXE.V2.



Features

Cross-connection Capacity	High Order: 46*46 VC4s Low Order: 2394*2394 VC12s
Cross-connection mode	bidirectional, unidirectional, multicast/broadcast and loopback

Specifications

Index		Performance Parameter	
SDH/PDH Interface	Max	STM-1	2 aggregation + 8 tributary STM-1 optical interfaces (Can be SFP)
		STM-4	2 aggregation STM-4 interface,, SFP
		STM-16	2 aggregation STM-16 interface, SFP
	Connector	SC/PC or FC/PC or SFP	
	Spec.	S-1.1, S1.2, L-1.1, L-1.2, S4.1, S4.2, L4.1, L4.2, S16.1, S16.2, L16.1, L16.2 Single fiber bi-directional interface can be optionally supported	
Service Card	Compatible with H9MO-LMXE.V2/V8E		
PDH interface	Max E1	72 E1s	
	Max E3/DS3	4 E3/DS3	
Ethernet	Interface	10/100Base-Tx or 100Base-Tx, Comply with IEEE 802.3	
	Max FE Interface	16 FE ports (14 FE01 or FE02 cards support)	
	Encapsulation	Comply with ITU-T G.7041 (VCAT, GFP, LCAS)	
V.35	Max Interface	8 V.35 interfaces (framed or unframed) DCE/DTE	
Cross-connect Capacity	Uplink STM-1	High order 12×12 VC-4s Low order 756×756 VC12s	
	Uplink STM-4	High order 16×16 VC-4s Low order 1008×1008 VC-12s	
	Uplink STM-16	High order 46×46 VC-4s Low order 2394×2394 VC-12s	



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Management	Interface	10/100 Base-T (can be cascaded)
EOW interface		Standard socket RJ11
Physical Dimension(H/D/W)		1U: 440 × 44 × 280 (mm)
Power	Supply	-48V DC / 220V AC
	Consumption	≤40W
Environment	Temperature	0°C~50°C
	Humidity	≤90 %(non-condensing)
Weight (full-load)		≤3.5KG

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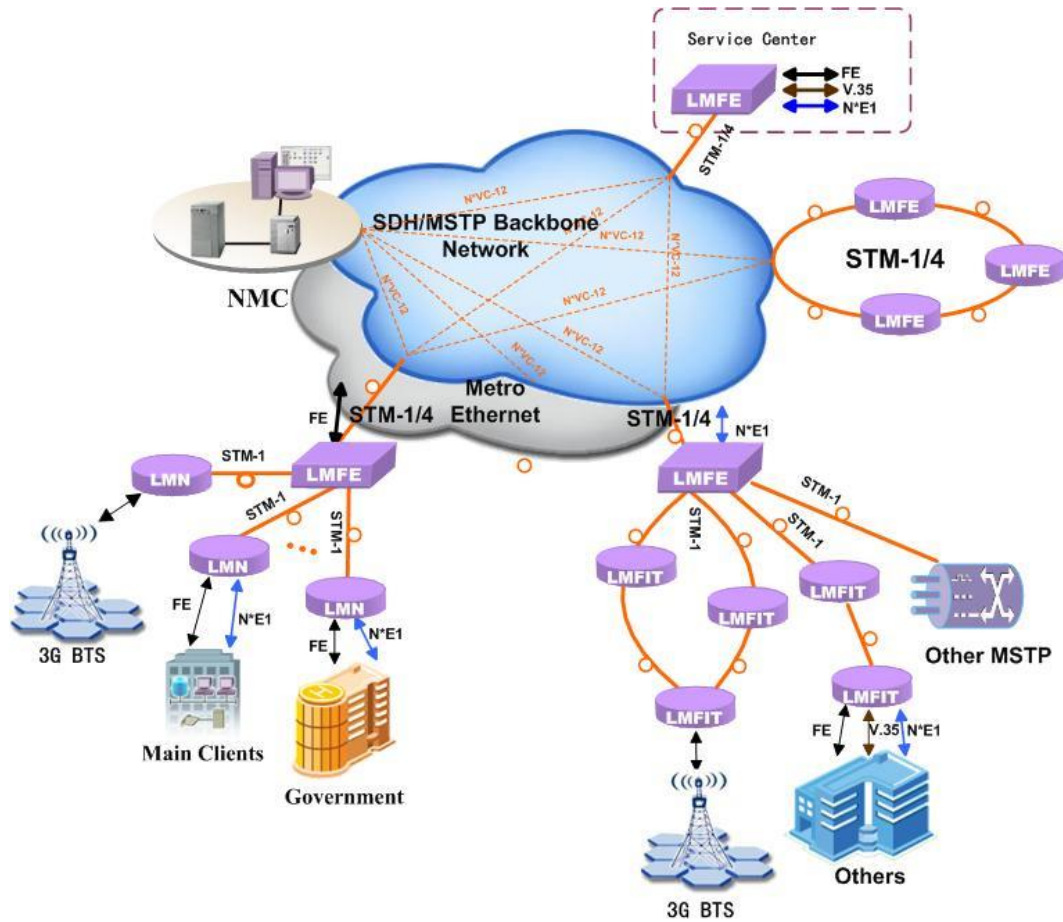
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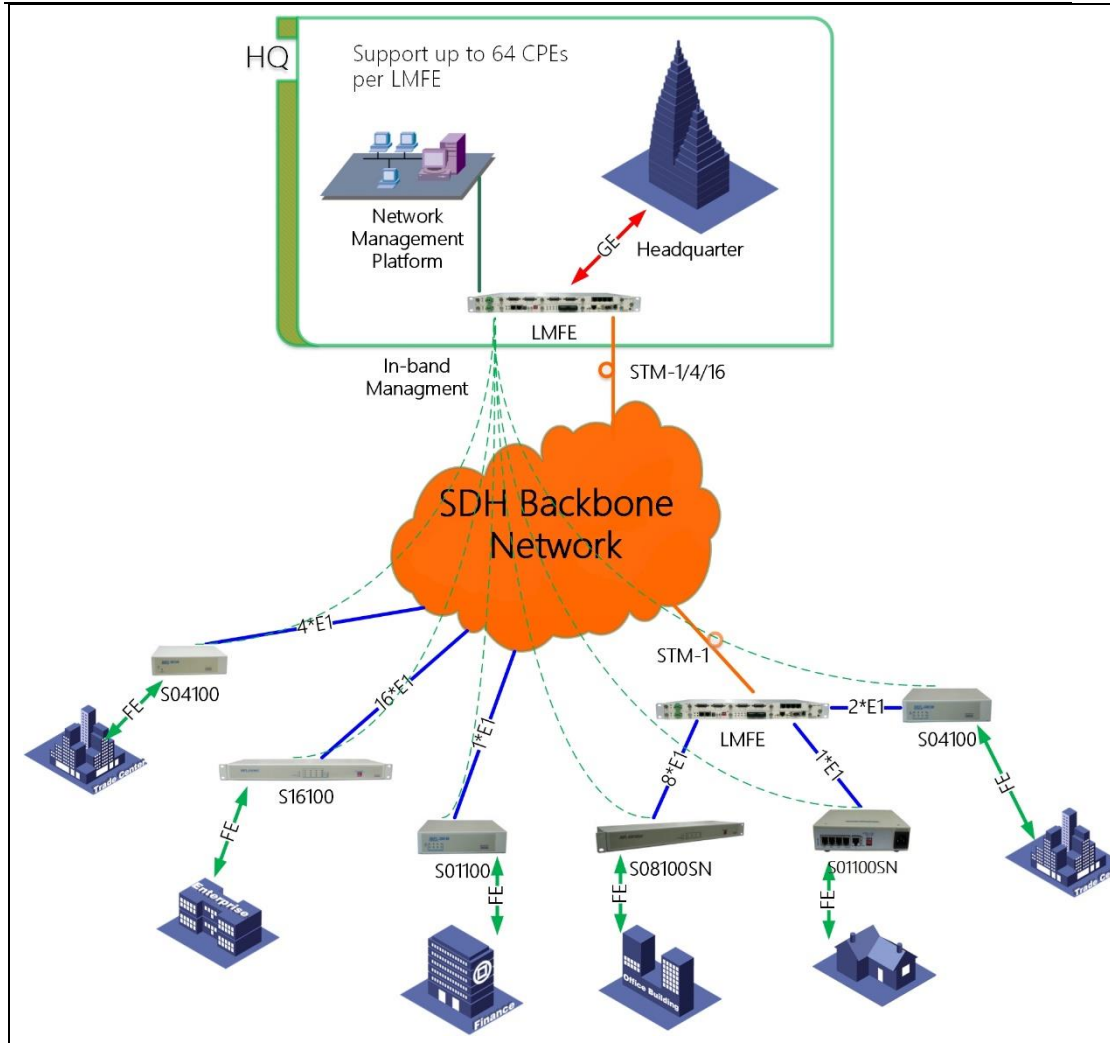
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Typical Application
● Integrated Services Access

● Ethernet over PDH Aggregation Application



Standard Compliance

Items	Standards and Protocols
SDH Interface	ITU-T G.957, G.707
E1/E3/DS3 interface	ITU-T G.703, G.704
Clock interface	ITU-T G.823
Ethernet interface	IEEE 802.3 recommendations
2Mbit/s, 2MHz clock interface	G.823
SDH Clock	G.813, G.825, YDN121-1999, YDN123-1999
Network Management	G.784, G.831, Q.811, Q.812, M.3100, M.3000
Service Protection	G.841, G.842
Built-in E1 BER Tester	O.150