



### **Overview**

H9MO-LMXE is a carrier-class, cost-effective, compact (only 3U high), STM-1/STM-4 SDH/MSPP 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-LMXE 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 3U high 19" wide chassis of the H9MO-LMXE has 19 slots, with 2 slots for the 1+1 power cards, 1 slot for network management card, 2 slots for network interface unit(NIU) cards, and 14 slots for local interface unit(LIU) cards.

### **Features**

1. Support 1+1 MSP, SNCP protection
2. Management channel can be DCC bytes or E1 (VC12)
3. Support up to STM-4 rate
4. E1 BERT test is embedded
5. Ethernet service supporting GFP encapsulation, VC12 virtual concatenation (1~63 VC12) and LCAS
6. Large cross-connect matrix capacity is 2016×2016 VC12s (32×32 VC4s) and powerful networking ability
7. Inter-working with popular SDH/MSPP products of various vendors
8. Easy commissioning and maintenance
9. High integration, compact design
10. High reliability, low CAPEX and OPEX

## Technical specification

Index			Performance Parameter
SDH Interface	Max	OX01	32 STM-1 optical interfaces
		OX04	4 STM-4 optical interfaces, SFP
	Connector		SC/PC or FC/PC
	Spec.	S-1.1, L-1.1, L-1.2, S4.1, L4.1	
Single fiber bi-directional interface can be optionally supported			
Service Card	PWR01		Power Card -48VDC (Dual power for backup)
	NM01		EMS Management Card
	OX01		Dual STM-1 aggregation optical card
	OX04		Dual STM-4 aggregation optical card
	OS01		Dual STM-1 tributary optical card
	EP01		24×E1 (75Ω or 120Ω)
	EP03		12×E1 (75Ω or 120Ω)
	EP02		1×E3/DS3 Card
	EP04		3×E3/DS3 Card
	FE01		4 FE over 4 VCG trunks (EoS)
	FE02		4 Fx over 4 VCG trunks (EoS)
	FE04		4 FE over 1~16E1 (EoE)
	FE05		4 Fx over 1~16E1 (EoE)
	ED01		2×V.35 Card ( framed or unframed )
	DX02		Full 64E1 DS0 cross connection (2048×2048,64K)
	GX01		GE optical and electrical aggregation card, 24:1
	FE06		Ethernet aggregation and layer 2 switch card, 8:1
	LA01		Order wire card
PDH interface	E1 Spec.		Comply with G.703, 2.048Mbps, HDB3
	Max E1		168E1 (14 EP03 cards support)
Ethernet	Interface		10/100Base-Tx or 100Base-Tx, Comply with IEEE 802.3
	Max FE Interface		56 FE ports (14 FE01 or FE02 cards support)
	Encapsulation		Comply with ITU-T G.7041 (VCAT, GFP, LCAS)
V.35	Max Interface		28 V.35 interfaces (framed or unframed) DCE/DTE
Cross-connect Capacity	Uplink STM-1		High order 20×20 VC4s Low order 1260×1260 VC12s
	Uplink STM-4		High order 32×32 VC4s Low order 2016×2016 VC12s
Management	Interface		10/100 Base-T (can be cascaded)
EOW interface			Standard socket RJ11
Physical Dimension(H/D/W)			3U: 136 × 240 ×440 (mm)
Power	Supply		-48V DC or dual power supply
	Consumption		≤100W
Environment	Temperature		0°C~50°C
	Humidity		≤90 %(non-condensing)
Weight			≤8 kg

## Typical application

