| Huahuan | H9MO-LMFIT SDH/MSPP Access Device (MetroEdge-Express) |
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## Overview

As a key member of Huahuan “MetroEdge-Express” SDH/MSPP Product family, H9MO-LMFIT is a carrier-class, cost-effective, compact (only 1U high) SDH/MSPP platform that is designed for applications in metro and access networks to facilitate the efficient transport of traditional TDM and emerging data traffic for service providers.

H9MO-LMFIT is a modularized unit with 4 universal slots, supporting different interface cards, such as STM-1 fiber optic cards, E1 cards, Ethernet cards (EoS VCAT), and V.35 card. The main board cross-connect capacity is 504×504 VC-12s (8×8 VC-4s), allowing non-blocking adding/dropping services among different interfaces. It supports the hybrid transmission of SDH, PDH, Ethernet and N×64K V.35 services within the same equipment. It also supports 2048×2048 64K (full 64E1) cross-connect capacity using FDXC64 card. With the large capacity cross-connect matrix, the H9MO-LMFIT can be configured as ADM, TM, and REG. It is suitable for multiple network topologies such as point-to-point, chain, ring, hub, and mesh networks.

## Features

1. 4 General Slots, supporting a range of interface cards, including SDH, PDH, Ethernet and V.35 cards.
2. Ethernet service supporting GFP encapsulation, VC12 virtual concatenation (1~63 VC12)
3. Large cross-connect matrix capacity is 504×504 VC12s (8×8 VC4s) and powerful networking ability
4. LCD display for system configuration and alarm
5. Inter-working with popular SDH/MSPP products of various vendors
6. Suitable for 3G access network transmission
7. Easy commissioning and maintenance
8. High integration, compact design
9. High reliability, low CAPEX and OPEX

**Technical Specification**

| Index | | Performance Parameter |
|---|---|---|
| SDH Interface | Max | 8 STM-1 optical interfaces （Four F155-DO cards used） |
| | Connector | SC/PC |
| | Spec. | S-1.1, L-1.1, L-1.2 |
| | | Single fiber bi-directional interface can be optionally supported |
| Service Card (4 General Slots) | F155-O | Single STM-1 optical interface card |
| | F155-DO | Dual STM-1 optical interfaces card |
| | F4XE1 | 4×E1 interface card (75Ω) |
| | F8XE1 | 8×E1 interface card (75Ω or 120Ω) |
| | FFE201 | 2 FE over 1 VCG trunks (EoS) |
| | FFE404 | 4 FE over 4 VCG trunks (EoS) |
| | FFX404 | 4 Fx over 4 VCG trunks (EoS) |
| | FFE201E | 2 FE over 1 n×E1 (EoE) |
| | FFE404E | 4 FE over 4 n×E1 (EoE) |
| | F2XV35 | 2×V.35 interface card (framed or unframed) |
| | FDXC64 | Full 64E1 DXC (2048×2048 64k cross-connect) |
| PDH interface | E1 Spec. | Comply with G.703, 2.048Mbps, HDB3 |
| | Max E1 | 24E1 (Three F8XE1 cards support) |
| Ethernet | Interface | 10/100Base-Tx, Comply with IEEE 802.3 |
| | Max FE Interface | 12 FE (Three FFE404 cards support) |
| | Encapsulation | Comply with ITU-T G.7041 (GFP) |
| V.35 | Max Interface | 6 V.35 interfaces (n×64K) (Three F2XV35 cards support) DCE/DTE |
| Cross-connect Capacity | Low order VC12 | 504×504 VC12 |
| Management | Protocol | SNMP or Q3 |
| | Interface | 10Base-T and RS232<br>RS485 |
| EOW interface | | Standard socket RJ11 |
| LCD Display | | Support |
| Physical Dimension | | 1U: 440 × 44 ×230 (mm) |
| Power | Supply | -48V DC or 220V AC or dual power supply<br>+24VDC |
| | Consumption | ≤15W |
| Environment | Temperature | 5°C ~ 45°C |
| | Humidity | ≤90 %(non-condensing) |
| Weight | | ≤3.5 kg |

## Application