Olencom FMC-IP16-R

FMC-IP16-R is the IP over TDM converter, which supports the conversion from MAC frames to 1 – 16 E1 lines. The maximum bit rate is 31.68Mbps (16E1 lines). With different LAN card, E1 card and power card, it can meet various requirements. It not only provides alarms and status of the E1 line and Ethernet interface together with advanced management functions, such as, throughput statistic of the Ethernet, but also supports the Unification Network Management via SNMP and CLI commands.

Compliant to international standards, the device can communicate with products from other manufacturers adopting the same standards.

Main Features

- **E1 interface**
  - Supports automatic removal and recovery of E1 channels.
  - Supports the embedded E1 BER Tester function.
  - The differential delay between any two of the 16 E1 can be up to 220ms
  - Jitter tolerance and jitter transfer characteristic compliant to ITU-T G.823.
- **Ethernet interface**
  - Provides up to 4 shared Ethernet interfaces.
  - 1024 MAC address table and 5-minute aging time.
  - Accepts frames with length between 64 and 1916 bytes (otherwise filtering).
  - VLAN function based on tags compliant to IEE 802.1Q.
  - Throughout statistic of the Ethernet packets based on port, such as error packets.
  - Configurable pause flow control.
  - Optional optical Ethernet interface Management interface
  - CLI command via serial RS232 port and telnet.
  - FMC-IP16-R network management platform based on SNMP (V1 and V2C).
- **Timing mode**
  - Optional local timing mode and tracing E1 line (set by CLI Command).
  - The source of tracing E1 line can be switched according to the signal quality.

- Compliant to ITU-T standards
  - GFP-F encapsulation recommendation G.7041.
  - Virtual concatenation(VCAT) and Link Capacity Adjustment Scheme (LCAS)
  - Ethernet to nxE1 mapping recommendation G.7043.
  - Ethernet to single E1 mapping recommendation G.8040.

FMC-IP16-R type mode

Type mode	Connector2	Connector3
FMC-IP16-R-4E1	—	4E1-75/4E1
FMC-IP16-R-8E1	—	8E1-75/8E1
FMC-IP16-R-16E1	8E1-75/8E1	8E1-75/8E1

Application Diagram