CL-MC-XE1-IP
TDM over IP Converter, Framed & Unframed, up to 4 and *8 E1 channels, Telnet & Web Management

Owerview

CL-MC-XE1-IP - is designed as a multiservice access platform for E1 over IP applications. E1 frames can be mapped/de-mapped into/from IP packets. An adaptive clock recovery method for Ingress PDH (PSN -> TDM) clock generation is implemented to support E1 (ITU-T G.823) Jitter performance.

COST-EFFECTIVE LAN DEPLOYMENT (PDH OVER ETHERNET) **CL-MC-XE1-IP** provides cost-effective applications of traditional circuitswitched system over IP. With **CL-MC-XE1-IP**, it is easy to interconnect with the existing E1 systems over IP that are used to carry data, voice and video.

TRANSPARENT TRANSMISSION **CL-MC-XE1-IP** can transparently transport proprietary signaling that is required to support PABX & IP-PABX features, including call conference, call forwarding and SS7. Customer can easily apply and enjoy better integration of TDM and Ethernet devices with lower network expense.

BYPASS INTERNATIONAL TOLL With a pair of EtherMux and guaranteed internet bandwidth, it is sure to save cost dramatically, and to ensure the QoS of voice based on interconnections of TDM telecommunications equipment

***2G/3G/4G BACKHAUL DEPLOYMENT**
With high precision clock recovery technology, **CL-MC-XE1-IP** is capable of supporting 2G/3G/4G backhaul and provides smooth services.

Features

- Support IEFT RFC4533 Structure Agnostic TDM over Packet(SAToP), Metro Ethernet Forum MEF8.
- E1 NRZ Serial Interface with LOS/AIS detection.
- Use Raw Encapsulation method for PDH payload over Ethernet packet.
- Support Circuit Emulation Service over Ethernet networks.
- Comply with IEFT draft standard for CESoPSN and SAToP; Metro Ethernet Forum MEF8 IA.
- Support both Point-to-Point and Point-to-Multipoint operation.
- Support Adaptive Clock recovery block for Ingress PDH (PSN ->TDM) clock generation.
- Recovered clock jitter is compliant to ITU-T G.823 (E1 Jitter Control).

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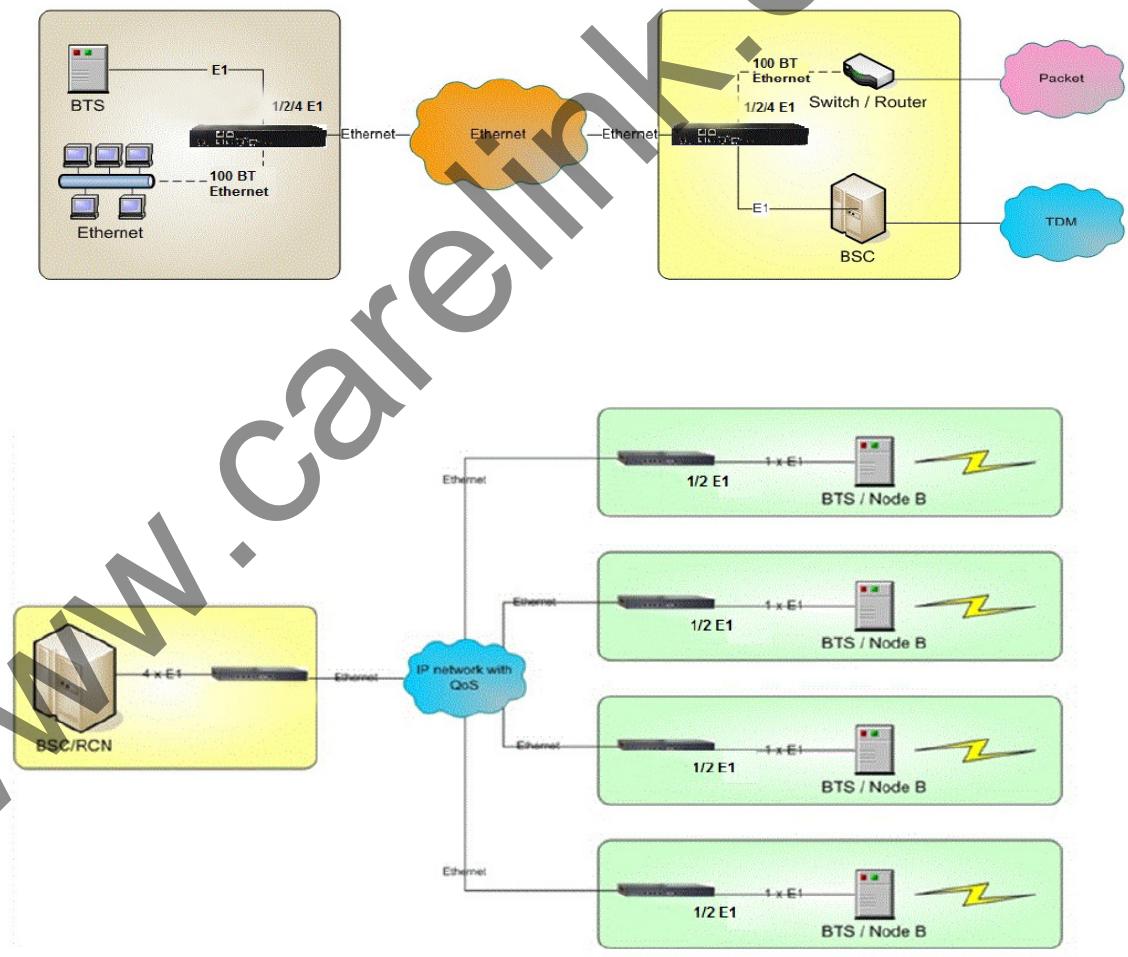
- Configurable jitter buffer depth to compensate PDV (Packet Delay Variation) with the flexible setting of 11ms, 23ms, 40ms, 75 ms…
- Lost packets processing/compensation via PW (Pseudo Wire) control field Sequence Number.
- Provide Subscriber side Data traffic bandwidth control to guarantee enough TDM payload bandwidth.
- PDH LOS detection triggered PW L field or payload AIS generation at Egress direction (TDM -> PSN).
- Configurable IEEE 802.3 DA/SA assignment.
- LED alarm display for E1 /Power failure status (Optional) Order wire (free contact)

Typical Application



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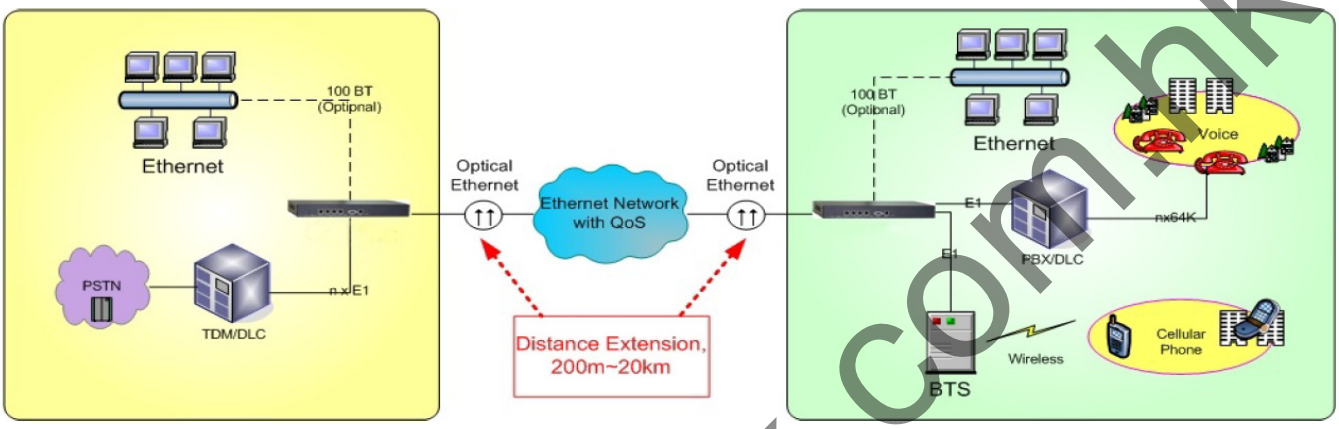

System Specification

LINE INTERFACE
Port: up to 8 x E1 (ITU-T G.703)
Interface: RJ-48c (120 Ohm)
Line Coding: HDB3

ETHERNET INTERFACE
WAN Port: 100 Base-TX Ethernet
Interface: RJ-45
LAN port: 100 Bases-TX Ethernet
Interface: RJ-45

***OPTICAL ETHERNET INTERFACE**
WAN Port: 1x optical Ethernet
Connector: SFP cage for fiber link
Rate: up to 1Gbps

DIMENSION
H x W x D: 44 x 320 x 125(mm)
MAIN POWER SUPPLY
AC: 85 ~ 264V @ 47 ~ 63Hz
(Optional) DC: -72V ~ -36V
(Optional) 5VDC Power Jack @ External AC power Adapter/3 Amp (+5VDC□ 100/220 VAC)

ENVIRONMENT CONDITION
Ambient temperature: 0℃ ~ 50℃
Storage temperature: 0℃~ 85℃
Relative humidity: 5 ~ 95% none Condensing

CONFIGURATION AND MANAGEMENT
RS-232 console port (Craft Terminal) or Telnet/SNMP-based management (via Ethernet)

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Order Information

Part Number

CL-MC-1E1-IP-A 1E1 over 1 Ethernet pot, Standalone, AC220V power supply
CL-MC-1E1-IP-D 1E1 over 1 Ethernet pot, Standalone, DC-48V power supply
CL-MC-2E1-IP-A 2E1 over 1 Ethernet pot, Standalone, AC220V power supply
CL-MC-2E1-IP-D 2E1 over 1 Ethernet pot, Standalone, DC-48V power supply
CL-MC-4E1-IP-A 4E1 over 1 Ethernet pot, Standalone, AC220V power supply
CL-MC-4E1-IP-D 4E1 over 1 Ethernet pot, Standalone, DC-48V power supply
***CL-MC-8E1-IP-A** 8E1 over 1 Ethernet pot, Standalone, AC220V power supply
***CL-MC-8E1-IP-D** 8E1 over 1 Ethernet pot, Standalone, DC-48V power supply