TDMoE Cards for QX3440 DACS HX9500R SDH & DACS

Features

- Hot pluggable interface card for QX3440 and QX3440-S series
- Four Ethernet Ports for WAN or LAN port assignment
  - Bandwidth up to 4 x 2 M and support N x 64K bps
  - Two combo Gigabit Ethernet(GbE) with 2 RJ45 and 2 SFP housing
  - Two 10/100/1000 BaseT Ethernet
- Jumbo Frame reach up to 10K bytes
- VLAN support:
  - Concurrent 255 out of 1~4094 VLAN
  - Q-in-Q
- QoS
  - User configurable CoS
  - User configurable ToS in outgoing IP frame
- MAC learning (max. MAC table 8192 (8k) entry)
- Max. 340ms Packet Delay Variation
- L2 switch protocol: RSTP, STP, VLAN, QoS
- Jitter & Wander
  - PPM: per G.823 Traffic
  - PPB: per G.823 Synchronous
- Link Aggregation
- IETF TDMoIP (RFC5087), SAToP (RFC4553), and CESoPSN (RFC5086) complied
- RoHS Compliant

Description

CXR's TDMoE plug-in card is designed for the QX3440. TDMoE card is used to transport TDM traffic over IP network, in addition to Ethernet traffic. As the communications network migrates from TDM to IP, the TDMoE card provides a flexible and cost effective choice for the transport of legacy TDM signals.

It provides four Ethernet ports with no limitation for WAN or LAN port assignment The TDMoE card support point-to-point and point-to-multi-point voice and date application.

For transport of TDM signals E1, T1, Jitter and Wander adheres to G.823 Traffic and G.823 Synchronous.

Ordering Information

To specify options, choose from the list below:

Note: QX3440-TDMoE series are RoHS compliant

Model (RoHS compliant)	Description	Note
QX3440-TDMoE	TDMoE card with 2 GbE combo interfaces and 2 Ethernet interfaces (10/100/1000BaseT) plug-in module Support G.823 Traffic	For QX3440 and QX3440-S only
QX3440-TDMoE-S	TDMoE card with 2 GbE combo interfaces and 2 Ethernet interfaces (10/100/1000BaseT) plug-in module Support G.823 Synchronization	For QX3440 and QX3440-S only

Accessories:

SFP Optical Modules
Please contact your sales for more information's and reference.

Product Specifications

Combo Gigabit Ethernet(GbE) Interface

Number of Ports	2
Speed	10/100/1000M bps
Connector	RJ45 for twisted pair GbE, LC for optical GbE, auto detection

Gigabit Ethernet(GbE) Interface

Number of Port	2
Speed	10/100/1000 BaseT
Connector	RJ45

Hardened 10/100BaseT

Ethernet Function

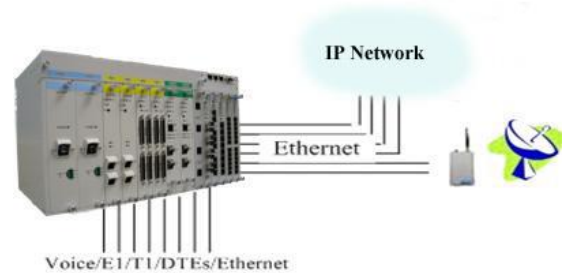|	
Basic Features	MDI/MDIX for 10/100/1000M BaseT auto-sensing
	Ping function contained ARP
	Per port, programmable MAC hardware address learns limiting (max. MAC table 8192 (8k) entry)
	Packet Delay Variation:
	- Unframed T1: Up to 340 ms
	- Framed T1: Up to 256 ms
	- E1:up to 256 ms
	- Framed T1 with CAS: Up to 192 ms
Packet Transparency	Packet transparency support for all types of packet types including IEEE 802.1q VLAN and 802.1ad (Q-in-Q)
QoS	User configurable 802.1p CoS, ToS in out going IP frame
Traffic Control	Ingress packet Rate limiting buckets per port for Ethernet port
	Supporting Rate-based and Priority-based rate limiting for LAN port
	Granularity:
	a. From 64 Kbps to 1 Mbps in increments of 64 Kbps
	b. From 1 Mbps to 100 Mbps in increments of 1 Mbps
	c. From 100 Mbps to 1000 Mbps in increments of 10Mbps
	Pause frame issued when the traffic exceeding the limited rate before packet dropped following IEEE802.3X
Link Aggregation	WAN supports Link Aggregation

Jitter & Wander

PPM: per G.823 Traffic
PPB: per G.823 Synchronous

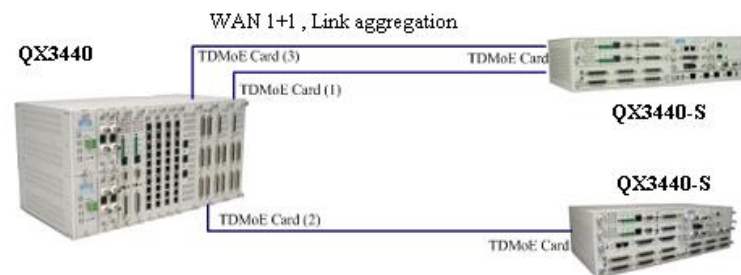## Standard Compliance

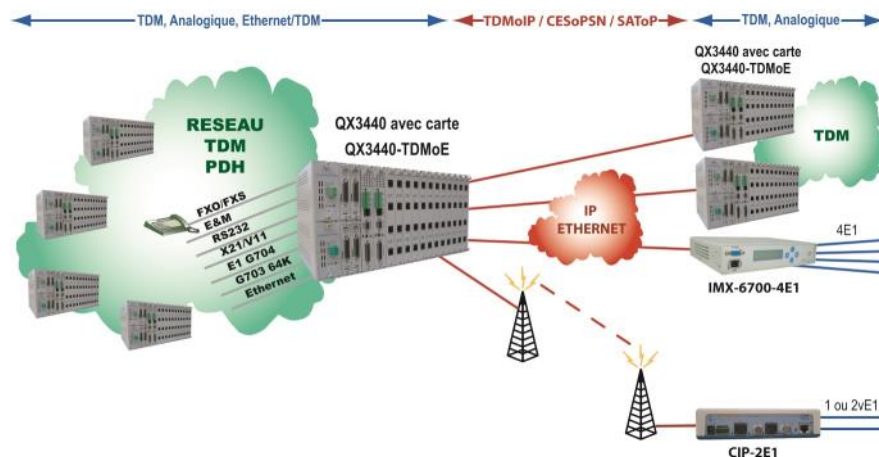|	
IETF	TDMoIP (RFC5087), SAToP (RFC4553), CESoPSN (RFC5086)
IEEE	802.1q, 802.1p, 802.1d, 802.3, 802.3u, 802.3x, 802.3z, 802.1s, 802.1w, 802.1AX

Application Illustrations

TDMoE plug-in card in QX3440/HX9500 series is to transport TDM traffic (voice signals/E1/ T1/ DTEs/ Ethernet) into IP Traffic.

Point to Point Application

Point to Multi-Point Application

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