KTP – TDM over IP
INTERFACE CONVERTOR SERIES

- **Performs TDM circuit emulation over enterprise or carrier packet-switched Ethernet L2/L3 networks for different types of user interfaces**

- **At the Ethernet line side supports both electrical Fast and optical 100 FX Ethernet interface**

- **Multiprotocol encapsulation supporting IPv4, IPv6, UDP, RTP, L2TPv3, MPLS and Metro Ethernet.**

- **Compliant with IETF, ITU-T, MFA Forum and Metro Ethernet Forum Technical Specifications**

- **Recovered clock jitter and wander compliant to ITU-T G.823, G.824. Supports adaptive clock recovery, differential clock (common clock) (using RTP)**

- **ToS support for IP level priority, VLAN 802.1p and 802.1Q support for MAC level priority**

- **Lost/misordered packet compensation**

- **Embedded Web Server and SNMP Agent**

- **Optional AES 128/192/256 Encryption of TDM Stream**

IRITEL
*bright connections*

Applications

KTP devices performes TDM circuit emulation over packet switched network thus enabling transparent TDM services over enterprise or carrier Ethernet network.

Besides TDM traffic transmission over IP based networks KTP provides many value-added functions in order to meet different customers needs including different network management capabilities, traffic protection, synchronization etc.

- In carrier network KTP typically finds applications for:
  - TDM services over Ethernet MAN, broadband wireless, CATV
  - 2G / 2.5G cellular backhaul over IP/MPLS
- In enterprise applications KTP is suitable to be used for:
  - Private line/toll bypass via Ethernet MAN
  - TDM PBX migration to Ethernet MAN
- In access networks KTP typically finds application as Multi Tenant Multi Dwelling Unit MTU/MDU

Basic functions

- Broad range of, framed or unframed, PDH tributary interfaces
- One 10/100 electrical and one 100 optical Ethernet interface
- Compliant with:
  - IETF PWE3 Internet drafts for SAToP, TDMoIP, CESoP-SN, HDLC
  - ITU-T Recommendations Y.1413 and Y.1414 (clause 10) Y.1453, Y.1452.
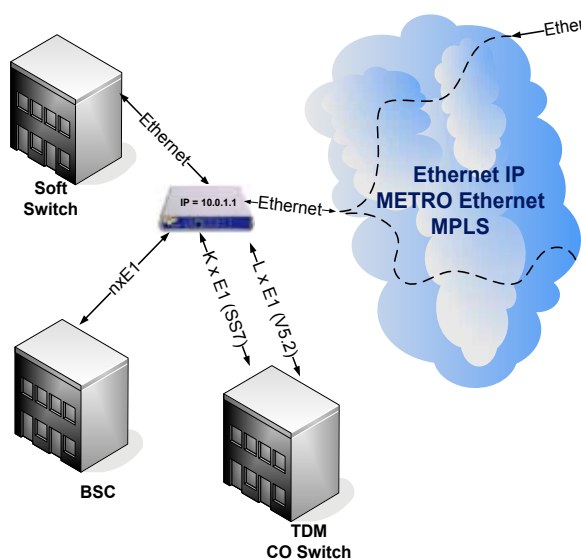
- MFA Forum Implementation Agreements 4.1, 5.1 and 8.0.0
- Metro Ethernet Forum Technical Specification MEF8
- Supports adaptive clock recovery, differential clock (common clock) (using RTP)
- Embedded Web Server and SNMP Agent

Ordering codes

KTP-*I*-*P*-*S*

I - interface:
  - X - X21/V.11 codirectional or contradirectional n x 64 kbit/s over IP
  - V - V.35
  - N - NRZ, NATO, 75 Ω, n x 64 kbit/s over IP
  - E1 - E1 over IP
  - 2E1 - 2 x E1 over IP
  - 4E1 - 4 x E1 over IP
  - E3 - E3 over IP

P - power option:
  - D - 48 Vdc desktop unit
  - N - 220 Vac with external AC/DC adapter
  - R - card - rack version

S -encryption option:
  - ␣ - no encryption
  - S - with encryption

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