Access Systems

KFE

INTERFACE CONVERTOR SERIES

Ethernet over TDM

- Ethernet over TDM Bridge
- Provides connection of remote LAN networks with Ethernet 10/100 BaseTX or 100 BaseFX interface via PDH/SDH telecommunication network or copper infrastructure
- Different TDM interface support:
  - G.703, E1, E3, DS-3, OC-3, V.11, V.35, NRZ
  - SHDSL, SHDSL.bis compliant to EFM applications
- Embedded Web Server and SNMP Agent
- Optional AES 128/192/256 Encryption of TDM Stream

IRITEL bright connections

TELECOMMUNICATIONS AND ELECTRONICS
http://www.iritel.com e-mail: info@iritel.com

KFE Interface Convertor Series, Ethernet over TDM

Applications

KFE devices enables connectivity of different equipment with Ethernet interface by utilizing existing TDM or copper infrastructure.

Interface converter KFE basically performs L2 (layer 2) Ethernet Bridge/Switch functionality thus making them transparent for all higher layer protocols.

KFE devices in both, public and private networks, typically find applications for:

- Remote LAN segments connection
  - Campus
  - Corporate
  - Interbuilding
- Subscriber connection to Internet Service Provider
  - ISP hosting
- Remote terminal connections.
  - Point of Sell, POS, and info terminals
  - Automated Teller Machine (ATM)
  - Electronic payment systems, parking, pay tool…
- Remote video surveillance
  - Schools, universities
  - Stadiums or sport arenas
  - Cultural and other public institutions, museums,
  - Galleries
  - Warehouses, shopping centres
- Process control in private in public utility companies
  - Railway
  - Distribution and transmission of electricity
  - Oil and gas utilities
- For traffic control at
  - Big junctions, crossroads
  - Bridges and tunnels
  - Crowded roads
  - Highways
- In special systems requiring data encryption
  - Army
  - Police
  - Government institutions and agencies

Basic functions

- Enable transparent Ethernet service over TDM/copper infrastructure
- At Ethernet side there are two ports: electrical 10/100 BaseTX interface and optical 100 BaseF interface
- Electrical Ethernet interfaces are half/full duplex with auto negotiation procedure which define the type of interface 10 or 100 Mbit/s
- Interface Convertors are transparent for all higher order protocol (TCP-IP, XNS, ISO,...)
- VLAN can be configured for any port independently
- Support for QoS priority choice according to the port or IEE802.1p
- Synchronization: local clock or external clock from received signal
- Optional AES 128/192/256 Encryption of TDM Stream
- Loop test possibility

Ordering codes

KFE-*I*-*P*-*S*

I - interface:

X	- Ethernet over X21/V.11 codirectional or contradirectional n x 64 kbit/s
V	- V.35
N	- Ethernet over NRZ, NATO, 75 Ω, n x 64 kbit/s
E1	- Ethernet over E1
E3	- Ethernet over E3
2E3	- Ethernet over 2 x E3
S1	- Ethernet over one copper pair
S2	- Ethernet over 2 copper pairs
S4	- Ethernet over 4 copper pairs

P - power option:

D	- 48 Vdc with external DC/DC adapter
N	- 220 Vac with external AC/DC adapter
R	- card - rack version

S -encryption option:

	- no encryption
S	- with encryption

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