



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

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-*L*-*P*-*S*

L - 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
- 2E1* - Ethernet over 2 x E1
- 4E1* - Ethernet over 4 x 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)