



KG

Universal TDM, E1 interface converter platform, fractional multiplexer, cross connect device with exchangeable user interface module and optional built-in AES encryption



- Device enables user to connect their equipment over exchangeable user interface module via TDM E1 based telecommunication network
- Built in non blocking cross connect enables easy and cost effective add-drop of user interface traffic over spare, non used, E1 time slots with minimum delay including CAS signalling
- Basic Features:
 - 2 E1 framed or non framed interfaces.
 - 1 factory exchangeable user interface module with different number and/or interface types
 - Non blocking cross connect between E1 links and user interface modules including CAS signaling, where applicable
- Different user interface modules with: X.21/V11, V.35, NRZ/NATO, RS232 synchronous and asynchronous interfaces
- Embedded Web server for local managment
- Embedded SNMP agent for TMN application
- Optional AES 128/192/256 encryption of user interface data

Access Systems

IRITEL
*bright
connections*

TELECOMMUNICATIONS AND ELECTRONICS

<http://www.iritel.com>

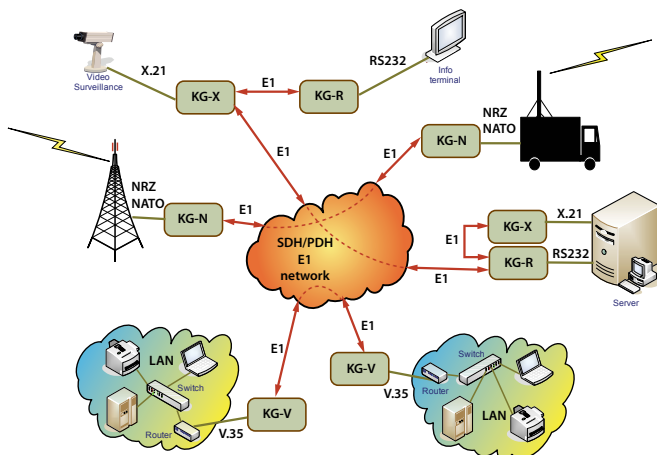
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Application

KG Series Interface Converter is usually used for connecting different devices through a transport TDM digital network that is based on the E1 interface.

In public and private telecommunication networks KG Series typically finds application for:

- Connecting remote LAN segments
- Connecting users to ISP
- Connecting remote terminals
- Remote video surveillance
- Industrial process control.
- Traffic control.
- SCADA systems
- In special service networks which requires data encryption.



Basic features

- The device convert user signal from removable interface modules to E1 signal in one of two E1 network interfaces and vice versa
- E1 links can be configured to work in framed and unframed mode
- Maximum conversion speed in unframed mode is 2048 kbit/s
- In framed mode it is possible to perform the capacity allocation of user signal from removable module to one of the E1 network interface in 64 kbit/s steps
- Unassigned capacity of E1 link can be mutually cross-connect or unlocated E1 link can be used as a protection link (1+1)

- Advanced fault diagnosis (loop test, integrated BER tester) of E1 and user interfaces
- The device can be synchronized from received E1, external reference or from received signal of user (synchronous serial) interface
- Control of remote devices in framed mode; allocating appropriate capacity of E1 signal to the system for centralized monitoring
- Content from the user interface can be encrypt or decrypt before mapping to the desired E1 direction
- The desktop version of the device can be used independently as an interface converter
- In board version of the device can be used as an independent interface converter, or as a part of fractional multiplexer, which in itself combines multiple interface converters with an appropriate user interfaces
- Centralized monitoring and supervision based on the standard packet protocols, SNMP, HTTP, ICMP...

Ordering codes

KG-I-P-S

I - Digital Interface:

- E – Ethernet
- X – X.21 codirectional or contradirectional
- V – V.35
- R/2R – 1/2 x RSR232 asynchronous and synchronous
- N – NRZ/NATO, 75/50 Ω
- C/2C – 1/2 x G.703 codirectional, 64 kbit/s
- DIO – 8 digital inputs / outputs

- Analog interfaces:

- FXS – analog telephone, user side
- FXO – analog telephone, exchange side
- E&M – 2w/4w analog exchange side
- AIO – 8 analog inputs / outputs

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