KGET8

INTERFACE CONVERTOR
Ethernet over 8 x E1

- **Provides connection of remote LAN networks with Ethernet 10/100 BaseTX or 100 BaseFX interface via telecommunication network with G.703, 2 Mbit/s interface**
- **Easy configuration**
- **Integrated control and monitoring, SUNCE-M**

Access Systems

IRITEL
bright connections

KGET8 INTERFACE CONVERTOR - Ethernet over 8 x E1

Applications

- Connection of remote LAN networks with Ethernet interface
- Connection of small capacity IP DSLAM to IP Switch
- IP DSLAM and IP Base station backup/backhaul
- Remote corporative networks LAN connection

Basic functions

- Enables connection of remote Ethernet networks with 8 x E1 links
- Broadband service based on Ethernet technology for existing TDM PDH and SDH network
- For TDM transmission maximum capacity of non framing E1 signal is used
- Interface Convertor realize Ethernet Bridge function with 8 x 2048 kbit/s maximum WAN interface capacity
- At Ethernet side there are two ports: electrical 10/100 BaseTX interface and optical 100 BaseFX 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
- Loop test and signal generation possibility
- Integrated control and monitoring using OLC or FMV unit.
- Card option ready to be used in standard ETSI or 19" shelves
- Stand alone, rack or desktop mounting options

TECHNICAL DATA

G.703 (2 Mbit/s)
Input

Signal type	2048 kbit/s ±50 ppm (HDB3)
Impedance	75 Ω/120 Ω
Cable attenuation	0 to 6 dB at 1024 kHz
Input jitter	according to ITU-T G.823
Reflection attenuation	according to ITU-T G.703/9.3

Output

Signal type	2048 kbit/s ±50 ppm (HDB3)
Impedance	75 Ω/120 Ω
Impulse level	2,37 V ±0,237 V, 75 Ω
	3 V ±0,3 V, 120 Ω
Impulse width	244 ns
Impulse shape	according to ITU-T 15/G.703
Output jitter	according to ITU-T G.823

Ethernet 10-100 BaseTX

Transport type	duplex
Electrical characteristics	IEEE 802.3
Transmission	symmetrical
Section length (UTP cable class 5)	up to135 m
Connector	RJ45

Ethernet 100 BaseFX — SFP plug-in module

Transport type	duplex
Optical characteristics	IEEE 802.3
Transmission	singlemode optical fibre
Section length	up to 2000 m
Connector	SC

Protocols

HDLC X.86/LAPS	ML-PPP
IEEE 802.1D	bridging
IEEE 802.1p	QoS
IEEE 802.1Q	VLAN

Power supply — 48 Vdc or 220 Vac

Operating temperature range — -5^0 C up to +45^0 C
(class 3.2)