

KGET4/8/16 ETHERNET ACCESS INTERFACE CONVERTOR Ethernet over up to 16x E1 with GFP, VCAT and LCAS

- Transparent Ethernet connection over existing TDM infrastructure
- Provides Ethernet connection over up to 16 E1
- GFP, VCAT and LCAS encapsulation and bonding for up to 16 groups
- QoS and SLA Support for Ethernet subscribers
- Feature rich diagnostics and fault management on all TDM and Ethernet ports
- Monitoring and Configuration via embedded Web Server and SNMP





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Applications

- High Capacity Transparent Ethernet Service over existing PDH/SDH networks
- IP DSLAM, WiMAX and Mobile Base station backhaul
- Remote corporative networks LAN connection

Basic features

- KGET16 complies to the latest NG-PDH standards
- KGET16 provides transparency for all higher order protocols (TCP-IP, XNS, ISO,...)
- Generic Framing Procedure (GFP) enables efficient Ethernet packet encapsulation and TDM bandwidth utilization
- Virtual Concatenation (VCAT) provides flexible bandwidth allocation for different subscribers by bonding multiple E1 links into single virtual pipe
- Link Capacity Adjustment Scheme (LCAS) enables smooth virtual pipe capacity change, by adding or removing E1 links from the pipe, without traffic loss
- VLAN capabilities includes stacking and striping for both ingress and egress traffic for all ports independently thus keeping user VLAN settings unchanged. Management traffic can be isolated from user traffic with separate VLAN
- QoS support includes per port VLAN based priority or QoS based on IEE802.1p enabling fine traffic shaping in order to fulfill user requirements for delay sensitive real time voice or video applications
- KGET16 provides local port and in band capacity for remote management via embedded Web Server. For TMN purposes device provides SNMP agent
- E1 port test facility includes loop tests and signal generation and error measurements. All E1 ports under tests are excluded from VCAT LCAS groups thus preventing Ethernet loop storms.

TECHNICAL DATA

E1, G.703 (2 Mbit/s)

Number of ports 4, 8, 16 Connector RJ45

Input

Signal type 2048 kbit/s ± 50 ppm (HDB3) Impedance $75 \Omega/120 \Omega$ 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 $75 \Omega/120 \Omega$ Impulse level $2.37 \text{ V} \pm 0.237 \text{ V}$, 75Ω 3 V $\pm 0.3 \text{ V}$, 120Ω 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

Number of ports 2, 4
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

Number of ports 0, 2
Transport type duplex
Optical characteristics IEEE 802.3
Transmission singlemode optical fibre
Section length up to 2000 m
Connector SC

Protocols

Encapsulation GFP, G.7041
GFPoPDH, G.8040
Bonding VCAT G7043
LCAS, G.7042
Delay Compensation up to 250 ms



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