

INVUX8 – ETHERNET INVERSE MULTIPLEXER OVER 8E1



GENERAL DESCRIPTION

INVUX8 is an inverse multiplexer capable of balancing Ethernet traffic over up to 8 E1 frames. Available payload on each E1 is up to 1984 Kbps for an aggregated throughput of 15,872 Mbps.

Ethernet interface includes auto MDI/MDI-X, autonegotiation 10/100 and supports pause frames as per IEEE 802.3x for flow control between Ethernet and E1 frames. **INVUX8** has a total of 4 Ethernet interfaces allowing the connection of multiple computers or LANs without need of external network devices.

Inverse multiplexing mechanism is automatic, transparent and dynamic. The device uses the E1 transport frames as they available. Operator can set up an CRC errors threshold. If detected CRC errors are above this threshold the **INVUX8** releases this frame and it does not use it again until error are again under the threshold.

INVUX8 can be configured by means of a dip switch on the front panel. It has also a console port that reports the status of both the Ethernet and the E1 ports. Rack mount versions can also be managed by WEB and SNMP using a controller card inserted in the 19" chassis.

INVUX8 is available in standalone and rack mount formats. Standalone unit is 1U high 19" rack mount. Rack mount card can be inserted in a chassis with redundant AC or -48DC power supply. Controller card on chassis allows for web and SNMP management.

FEATURES

- ❑ Ethernet 10/100M traffic inverse multiplexing over up to 8 E1 frames
- ❑ Complies with ITU-T G.703 and G.823 on E1 ports and with IEEE802.3u and 802.3x on Ethernet ports
- ❑ 64Mbits dynamic SDRAM for traffic cache
- ❑ Up to 16ms delay between frames
- ❑ 1984 Kbps payload per E1 frame
- ❑ Autodetection and autobalancing of Ethernet traffic over valid E1 frames

- ❑ Programmable CRC thresholds for activation/deactivation of degraded E1 frames
- ❑ Ethernet ports support autonegotiation or forced 10/100 Mbps, auto MDI/MDI-X and flow control as per IEEE 802.3x
- ❑ Indicator leds for E1 and Ethernet port status
- ❑ Standalone and 19" rack mount format
- ❑ 220AC and -48DC power supply options
- ❑ Console, WEB/SNMP (rack mount format using SNMP controller cards) management

SPECIFICATIONS

G.703 interface

Rate: 2048 Kb/s 50 ppm
Line code: HDB3
As per ITU G.703 y G.823
Jitter: as per ITU G.823
Connector: sub-D 37p with coax adapter
Impedance: 75 ohm

Ethernet interface

Rate: forced 10/100M or autonegotiation
Compatible with IEEE802.3, 802.3u and 802.3x
Connector: RJ45
Duplex mode: Forced half/full duplex o autonegotiation
MDI/MDI-X auto crossover
VLAN tagging support as per IEEE 802.1q

Maintenance

Diagnostics:

Local loopback on E1 and Ethernet interfaces

Local management:

Console port: VT100 or similar
Connector: RS-232, sub-D 9p, 96008N1

Remote management:

Web and SNMP for rack mount card in chassis with controller card

Power supply

Internal: 198V~242VAC, 50/60Hz or -48DC
Power consumption: <5W

Dimensions

Standalone: 434 width × 44 height × 155.5 depth (mm):
 Module: 50.7 width × 176 height × 340 depth (mm)

Weight

Standalone: 2Kg (approx.)
 Module: 0.5Kg (approx.)

Temperature service

0 to 50 °C. (Humidity: 0-95% non condensing)

Compliance

CE (EN60950, EN50081-1, EN50082-1)

VERSIONS

INVUX8-AC	Inverse multiplexer 4ETH over 8E1. Standalone. AC power supply.
INVUX8-48	Inverse multiplexer 4ETH over 8E1. Standalone. -48DC power supply.
INVUX8R	Inverse multiplexer 1ETH over 8E1. Rack mount.

ACCESSORIES

RC-INVUX-AC	19" 6U high rack chassis for up to 8 INVUX8R cards. Includes one AC power supply..
RC-INVUX-48	19" 6U high rack chassis for up to 8 INVUX8R cards. Includes one -48DC power supply..
RC-INVUX-CC	SNMP controller card for RC-INVUX chassis
PS-INVUX-AC	AC power supply for RC-INVUX chassis
PS-INVUX-48	-48DC power supply for RC-INVUX chassis