

Kronos

E1/T1 Audio, Data & IP Multiplexer



Kronos E1/T1 Multiplexer is a system that allows transportation of voice channels, high quality audio and data across 2.048 Mbps or 1544 Mbps structured links (E1 or T1 circuits), using time division multiplexing (TDM). The Kronos multiplexer supports up to four E1 or T1 links. It is possible to drop/insert time slots across any of the connected E1/T1 circuits.

Specifications:

It is implemented using a modular construction on a common backplane architecture in 19" rack. It is possible to cascade up to 4 racks together. This all gives great flexibility in the choice of input and output modules depending on the requirements of each application.

- Ability to connect up to four E1/T1 circuits to one base device.
- Drop/insert across any of the connected E1/T1 circuits.
- Option of redundant AC or DC power supply.
- AC or DC (48V) power supply.
- Hot swapping of modules to make servicing and updating easier.
- Option to extend the configuration with additional racks (up to a maximum of 4 racks).
- Local or remote control and configuration through RS232 (Telnet) or LAN interface (SNMP) via ProdysControl.
- Ability to assigning time-slots for IP traffic dynamically. Routed interconnection of LAN through E1/T1 circuits.
- Totally configurable audio modules by software: selection of analog or digital interface as well as encoding/decoding algorithm.
- Bi-directional module of synchronous data (two ports per module). The interface can be configured V35/X21 and as DTE or DCE.

Base Device

- Modular 4RU, 19" width rack.
- Up to 4 E1 or T1 Multiplexed modules with drop insert capability.
- X21 module for synchronous data transmission N x 64 Kbps.
- Encoder/decoder modules with analog and digital AES/EBU audio inputs and outputs and auxiliary data.
- PBX interconnection module.
- TC/IP Control Module.
- Redundant Power Supply.
- Management software control.
- Extension module to cascade more subracks.



Kronos Modules:

Power Supply

- AC Power Supply and DC Redundant Power Supply (48V). Monitoring of status and power supply failure.

J41, J42, J57, ISO MPEG 1/2 Layer II, ISO MPEG 1/2 Layer III, apt-X, G711 and G722.

E1/T1

- E1/T1 full duplex with up to four E1/T1 links (2/1544Mbps) per frame.
- Drop/Insert functions among any of the four E1/T1 connected circuits.
- RJ45 and BNC connectors.

Control

- Control and monitoring functions over IP or RS232.
- It acts also as a router, interconnecting LAN networks through E1/T1 links.

Synchronous Data

- Allows synchronous transmission of data at Nx64Kbps.
- Free assignment of the number of slots. Provides two WAN V24/V35 interfaces.

Audio Encoder & Audio Decoder

- These modules supports both analog and digital inputs/outputs. Supported compression modes are: