

## **TEAMLINK 5045 MULTIPLEXER**

TEAMLINK 5045 Multiplexer consists of Four E1 channels and 3 Service slots for the user Interfaces. TEAMLINK versatile multiplexer is having the digital cross connection for mapping of the voice and Data channels to E1 timeslots & vice versa. Voice Interface is having the FXO, FXS and E&M Interface

### **Features:**

- ❖ Compact 1 U Size with 19 inch rack module
- ❖ All Main E1 as well as service slots are on the back side of the Unit
- ❖ E1 Alarm and Service cards alarm indications are provided on the front panel
- ❖ 10/100 Mbps Ethernet Interface and serial consol interface for the configuration and status monitoring of the versatile interface
- ❖ Supports Framed and Unframed operation on E1 interfaces
- ❖ Supports Framed PCM30/PCM31 with the CRC-4 Enable and disable functionality
- ❖ Performance monitoring on the E1 channels when E1 interfaces goes LOS, AIS
- ❖ Can connect Point to Point or chain kind of topologies for the Voice and data transmissions
- ❖ Local and Remote Telnet options for the Management Interface
- ❖ Supports RS232 as well as V35 Data Interfaces
- ❖ 10/100Mbps Ethernet user Interface for Bridging Applications
- ❖ Supports 230V AC/ 48V DC as well as 24V DC operations

### **Technical Specifications**

#### **E1 Interface**

- ❖ Number of Ports:4
- ❖ Supports G703/ G704 Framing Modes
- ❖ Supports CRC-4 Enable and Disable Operations
- ❖ Supports Internal and Recovered clock operations
- ❖ Supports Digital cross connection facility on the E1 channels for mapping to the next location for chain or ring applications
- ❖ 1024x 1024 cross connection facility

#### **Voice Interface**

- ❖ Channel sampling rate 8Khz
- ❖ Commanding law : A-Law/ U-Law
- ❖ Voice Interface : 2W / 4 W Signaling FXO, FXS, E&M
- ❖ Frequency : 300 to 3400Hz
- ❖ Impedance : 600Ohms

#### **Data Interface RS232**

- ❖ Asynchronous Data rates from 9.6Kbps to 115.2Kbps
- ❖ Synchronous Interface supports upto 128Kbps speeds
- ❖ Interface ITU-T V.24

### **Data Interface V35**

- ❖ Supports Synchronous V35 Interface
- ❖ Operates from 64Kbps to 2048Kbps in steps of 64Kbps
- ❖ Clocking option selectable
- ❖ Clock polarity can be modified as Invert and Normal for synchronizing the Serial Routers
- ❖ Interface ITU-T V35

### **Ethernet PORT Specifications**

- ❖ Supports 10 Mbps and 100 Mbps speeds According to the ITU-T 802.3 u
- ❖ 10Mbps / 100Mbps Half Duplex / Full Duplex Flow control Operation
- ❖ Compliant to IEEE802.3 and IEEE802.3 u, IEEE802.3x standards
- ❖ Supports Auto Cross Over and Auto MDI-X Option
- ❖ RJ 45 Connector
- ❖ WAN Protocol HDLC

### **Management**

- ❖ Configuration and Status Monitoring of the Versatile Multiplexer is through Menu driven consol or Supervisory using 9.6Kbps, 8Bit no parity RS232 Port
- ❖ The RS232 Console/ Supervisory is compliant with ITU-T V.24 / EIA RS232 Asynchronous Format with 9.6Kbps speeds
- ❖ Allows Multiple Telnet sessions for the concurrent Operations from different administrators
- ❖ Password Protection on the console and Telnet to prevent the unauthorized person's login into the Versatile Multiplexer
- ❖ Firmware download using the X-modem protocol from serial port
- ❖ Supports SNMP V1 and V2

### **Diagnostics**

- ❖ E1 Interface Loopback facility for testing each E1 Interface as well as Data Interface V35
- ❖ Alarm Indications for the Loss of Frame and Loss of Multi frame CRC Errors etc.

### **I/O Modules**

- ❖ 4 E1 Interface card
- ❖ 4FXS Interface Card
- ❖ 4FXO Interface Card
- ❖ 4E&M Interface Card
- ❖ Number of service slots 3
- ❖ Number of Network slots 1
- ❖ Telnet and Console for the Management

### **Indications:**

- ❖ E1 Signal UP/ DOWN, FXS, FXO status Indications
- ❖ Link and Speed on Ethernet Port
- ❖ TD, RD LEDs for Data Interfaces

### Power Supply

- ❖ 190V AC to 270V AC Operation
- ❖ 48V / 24V DC Power Supply

### Environment

- ❖ Operating Temperature : -5 to +55°C
- ❖ Operating Humidity : 5% to 99%

### Casing

- ❖ Rugged Metallic Aluminum Casing as for the Field Conditions
- ❖ 19" Rack Mountable system 1U Height

### Application Diagrams:

