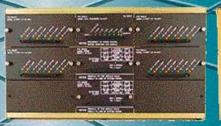
# Nx8-MUX DD

Dual Composite and Dual Power Redundancy





# **FEATURES / BENEFITS**

- √ Dual Composite Ports Any channel may be assigned to one of two composites operating at the same rate. Dual links may be used for switch-on-fault or for aggregating bandwidth.
- ✓ Composite Port Interface Each port software selectable for RS-232, RS-530, V.35,RS-422/449 or X.21
- √ Sub-Channel Interface(s) 16
  ports RS-232, four ports are
  software selectable for RS-232,
  RS-530, V.35, RS-422/449 or X.21
- ✓ Sub-Channels support Sync to 64Kbps and Async rates up to 38.4Kbps
- √ Composite Port speeds 8Kbps up to 128Kbps in steps of 8Kbps.
- √ Independent sub-channel configuration with support for remote downlink loading
- √ Non-disruptive channel configuration
- √ Automatic cut-over of channels from failed to active composite port
- ✓ All configuration via terminal port
- √ In-Band Management Channel allows remote upgrades, configuration and status
- √ Modular design with front load cards
- √ Redundant power supplies

# **DESCRIPTION**

The 16-Port Dual Nx8-MUX is a modular TDM Multiplexer designed to support up to sixteen sub-channel ports from 1200bps to 38.4 Kbps in Async format and up to 64Kbps in Sync formats.

The unit is designed with a pair of composite ports with variable port rate from 8Kbps to 128 Kbps in 8k steps for maximum flexibility. The composite port data interface is software selectable to operate as RS-232, RS-530, V.35, RS-422/449 or X.21.

The dual composite architecture allows for the distribution of channels over two aggregate links of equal bandwidth. This permits the utilization of the 2X bandwidth either to achieve up to nearly 256 Kbps total bandwidth, or to allocate spare bandwidth for channel recovery in the event either link fails. For the latter configurations, channels may be assigned either high or low priority, which assures that high priority channels remain in service on the surviving link.

The sub-channel ports may be individually configured to support flow control of RTS to DCD on a port by port basis or no flow control. The ports also support individual RTS to CTS delays and external TXC timing for DCE to DCE crossover. The data interfaces are RS-232 on 16 ports. In addition, four of the user ports are software selectable to operate as RS-232, RS-530, V.35, RS-422/449 or X.21.

The Dual Nx8-MUX derives its timing from the external DCE attached to the composite port. Alternately, timing may be sourced by the Nx8-MUX in a direct cabled pair of multiplexers. When using dual composites, timing may be independently selected for each link.

The Dual Nx8-MUX utilizes four, quad-port interface cards, a main processor card and dual redundant power supply modules. This modular design facilitates future upgrades and allows the user to add user ports in 4-port increments. All cards are front load.

The management port allows local and remote configuration commands. Integral software design features allow configuration of a sub-channel without disrupting existing sub-channels. Network management features include channel and composite loop backs, and link down error reporting. All port parameters are set with an async terminal connected to the configuration port. Setup procedures are menu driven and all parameters are stored in memory that supports power outages.

The Dual Nx8-MUX has an internal power supply and operates from voltages of 85-264 VAC. The unit has redundant power supplies with system notification. The unit is 5-U high and is standalone or 19" rackmount. The factory warranty is 3 years.

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# **SPECIFICATIONS**

# **Application**

Multiple Sync or Async DTE devices time division multiplexed onto one or two Sync DCE communication links

# **Timing**

System Timing: External via Composite Port or Internal Timing for back-to-back connections Each sub-channel Port capable of accepting external TXC timing for DCE to DCE crossover

# Capacity

Composite Port: One or two Ports Sub-Channel Ports: Up to sixteen

#### **Data Format**

Data transparent at all data rates

#### **Data Rates**

Composite Ports: 8kbps to 128Kbps in 8k steps

Sub-Channel Ports:SYNC: (Full Rates) 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 48k, 64k (3/4 Rates) 7.2k, 14.4k, 28.8k ASYNC: (Full Rates) 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k (3/4 Rates) 7.2k, 14.4k, 28.8kAsync Support: configurable for 8, 9, 10 and 11 bit data on a per channel basis

# **Composite Port Interface**

Two Ports: DB-25 Male, Software selectable for RS-232, RS-530, \*V.35, \*RS-422/449 and \*X.21 \*(Adapter cable required)

## 4 Port Sub-Channel I/O Card(s)

Four Ports: DB-25 Females, Four ports RS-232, one port Software Selectable for RS-232, RS-530, V.35, RS-422/449 and X.21 Maximum 4 cards per chassis, 16 I/O's per chassis

#### **Control Leads Passed**

Options for none or RTS to DCD in Band

## **Maximum Channel Composite Rate**

128Kbps with composite overhead of 1600 bps. Overhead is constant for all composite port rates.

#### **Cascade Port**

Via any sub-channel port

#### **Indicators**

Power, TX Data, RX Data, TX Clock, RX Clock, Sync, Loopback

#### **Power Source**

85-264 VAC @10%, 47-440 Hz, IEC Power Inlet, (2) 5mm Fuses

#### **Environmental**

Operating Temperature....32° to 122° F (0° to 50° C) Relative Humidity......5 to 95% Non-Condensing Altitude......0 to 10,000 feet

#### **Dimensions**

Height ...... 8.72 inches (22.10 cm) Width ...... 17.00 inches (43.18 cm) Length ...... 9.00 inches (22.86 cm)

#### Weight

9 pounds (4.2 Kg)

# Warranty

Three Years, Return To Factory

#### ORDERING INFORMATION

Part Number: 166100 Model: Nx-MUX DD

Description: Dual Composite, Dual Power Chassis

QTY Req: 1

Part Number: 166106

Model: Nx8-MUX DD to 128Kbps

Desc: Nx-8 Dual Composite Processor Card

Qty Req: 1

Part Number: 166007

Model: Nx8-I/O

Desc: I/O Board, 4-Port, Nx-MUX

QTY Req.: 1 to 4 Max

Part Number: 166080 Model: Nx-SRPS

Description: Nx-MUX, Single Redundant Power

Supply

QTY Reg: 1 or 2

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