# Nx8-MUX
# 16 PORT TIME
# DIVISION MULTIPLEXER

**SYNC / ASYNC**

## FEATURES / BENEFITS

√ **Composite Port Interface - 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 64k and Async data up to 38.4kbps**

√ **Composite Port speeds - 8k up to 128k in 8k increments**

√ **Independent sub-channel configuration with support for remote downlink loading**

√ **Non-disruptive channel configuration**

√ **All configuration via terminal port**

√ **In-Band Management Channel allows remote upgrades, configuration and status**

√ **Modular design with front load cards**

√ **Sturdy Metal Rackmount Enclosure**

√ **85-264 VAC Universal AC Input**

√ **Optional Redundant Power Supplies**

## DESCRIPTION

The 16-Port Nx8-MUX is a modular TDM Multiplexer designed to support up to sixteen sub-channel ports from 1200bps to 64Kbps in both Sync and Async formats. The unit is supplied with a variable composite port rate from 8Kbps to 128Kbps in 8k increments for maximum flexibility. The composite port data interface is software selectable for RS-232, RS-530, V.35, RS-422/449 or X.21.

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. Four of the user ports are software selectable for RS-232, RS-530, V.35, RS-422/449 or X.21.

The 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.

The Nx8-MUX utilizes four, 4-port interface cards, a main processor card and a power supply card. 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 and supports end to end software upgrades via management channel.

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

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## Application
Multiple Sync or Async DTE devices time division multiplexed onto one Sync DCE communication link

## 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 Input
Sub-Channel Ports: Up to sixteen

## Data Format
Data transparent at all data rates

## Data Rates
Composite Port: 8k to 128Kbps in 8k increments

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, 28.8k Async Support: configurable for 8, 9, 10 and 11 bit data on a per channel basis

## Composite Port Interface
One Port: DB-25 Male, Software selectable for RS-232, RS-530,* V.35, *RS-422/449 and *X.21
* (Adapter cable may be 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 1600bps. Overhead is constant for all composite port rates.

## Cascade Port
Via any sub-channel port

## Indicators
Power, TXD Data, RCV Data, RX Clock, Sync, Loopback

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

## Environmental
Operating Temperature....32º to 122º F (0º to 50º 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 (43.20 cm)
Length ....... 8.00 inches (20.30 cm)

## Weight
9 pounds (4.2 Kg)

## Warranty
Three Years, Return To Factory

## ORDERING INFORMATION
Part Number: 166060
Model: Nx-MUX
Description: Nx-MUX, Base Unit w/ Dual Power Slots

Part Number: 166003
Model: Processor PCB, Nx8-MUX
Qty Req: 1

Part Number: 166007
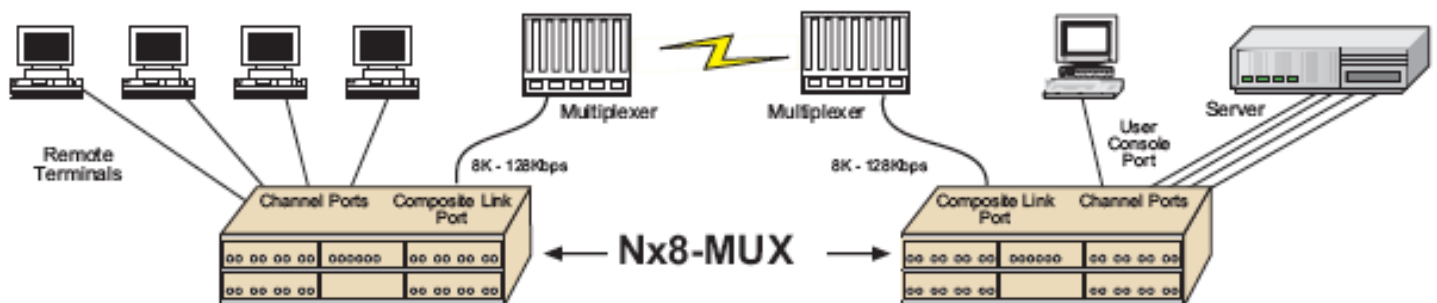Model: I/O Board, 4-Port, Nx8-MUX
QTY Req.: 1 to 4 Max

Part Number: 166080
Model: Nx-SRPS
Description: Nx-MUX, Single Redundant Power Supply

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