

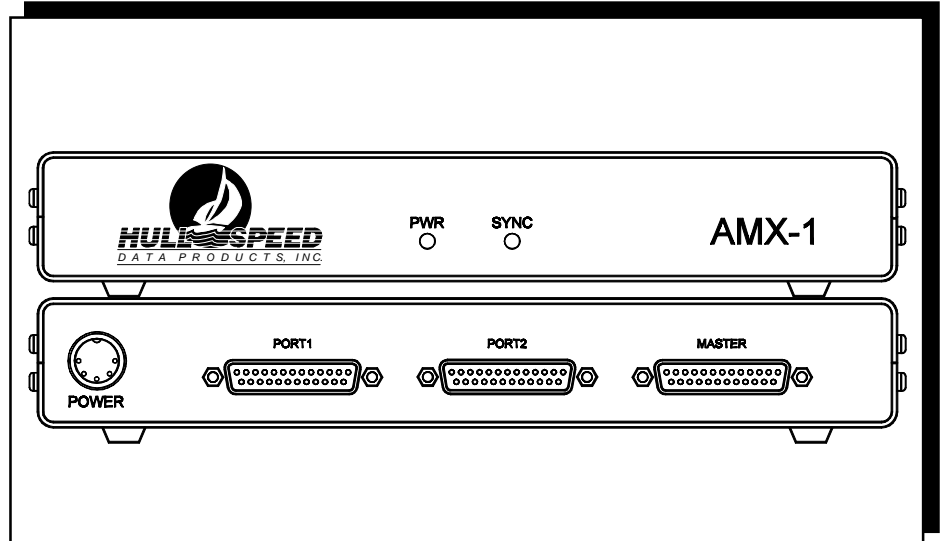


# AMX-1

## ASYNC TDM SPLITTER

### AMX-1

*Low-cost 2-port,  
Asynchronous TDM*



### HIGHLIGHTS

- Two asynchronous channels from one composite link.
- Provides full link utilization.
- Data rates supported up to 19.2 Kbps.
- Supports 7 or 8 bit async data format.
- Transparent to data and protocol.
- Simple installation.
- RS-232/CCITT/V.24 compliant.

### DESCRIPTION

The Hull Speed AMX-1 Asynchronous Multiplexer is a two-channel, character-oriented, time-division multiplexer used to derive two asynchronous data channels from a single full-duplex, synchronous composite link.

The two sub-channels operate at matched speeds of half the composite link speed. All standard codes, with or without parity, are supported. Configuration parameters are strap selectable. Indicators for both power and sync are provided.

The AMX-1 is compatible with 7 or 8-bit asynchronous formats using either 1 or 2 stop bits, with or without parity. This makes the AMX compatible with most async devices. This flexibility allows terminals with different formats to share the same modem or multiplexer port.

### PERFORMANCE

Data rate control of the AMX-1 is set by the associated transmission link equipment, i.e. modem or digital service unit. The synchronization is achieved by reducing the throughput of one port only 0.2 percent. This means the AMX-1 requires only one bit out of each 1024 transmitted to maintain end to end

synchronization. This small reduction is virtually invisible to almost all applications and terminals. The technique or method used by the asynchronous devices does not inhibit the AMX's ability to maintain its own synchronization.

The AMX-1 derives two ports of asynchronous data from one synchronous or asynchronous data link of up to 19,200 bps.

Installation options provide two channels at one-half the data link rate, although each may be configured independently. Both the link and port connectors are DB-25 female connectors.

The electrical interface complies with RS-232-C/CCITT V.24. Power and sync indicators are provided to assist the operator. If link is interrupted, the Clear To Send indication is removed from both sub-channel ports, Carrier Detect is removed from both remote sub-channel ports, and the sync indicator is extinguished until the link is re-established.

# TECHNICAL SPECIFICATIONS

## Multiplexing Technique

Time division, bit interleaved

## Data Format:

Asynchronous, 7 or 8 data bits, with or without parity

## Data Rates:

Master Port: Up to 19.2 Kbps  
Sub-Channel: Half the link speed

## Protocol:

Transparent

## Selectable Options:

Transmit and Receive "Sync" bit interval  
Number of Blocks to detect valid synchronization  
Composite Data Rate  
Character Length  
Sub-channel Parity  
Chassis ground

## Interface:

EIA/TIA RS-232-C/CCITT V.24 DB-25S (3), 1 composite link and 2 sub-channel ports.

## LED Indicators:

Power (PWR) & Sync. (SYNC)

## Power Requirements:

115 VAC +10%, 60 Hz @ .2 Amp. max. (Std)  
230 VAC +10%, 50 Hz @ .2 Amp. max. (Optional)

## Environmental:

Temperature: Operating: 50-120°F, 10-49°C  
Storage: -40°-149°F, -40°-65°C  
Altitude: Operating: 20,000 ft., 6,096 m  
Storage: 40,000 ft., 12,191 m

## Regulatory Safety Compliance:

UL / CSA, Wallmount Power Supply  
CE, Ext. In-line Supply; 230 VAC, 50 Hz.

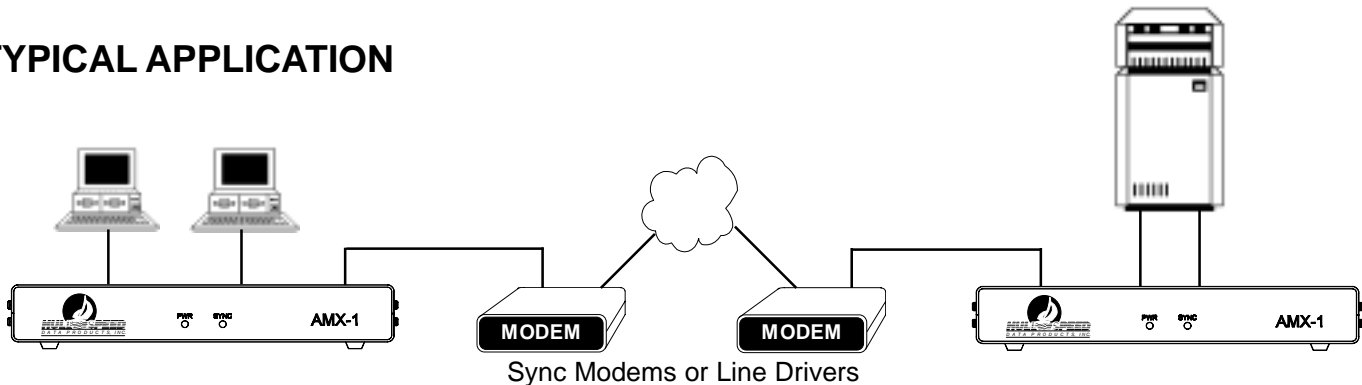
## Physical Characteristics:

Height: 1.50 inches 3.81 cm  
Width: 10.00 inches 25.40 cm  
Depth: 6.50 inches 16.51 cm  
Weight: 2.50 lbs 1.14 kg

## Warranty:

Standard: One year  
Optional: Three years (two-year extended)

## TYPICAL APPLICATION



ORDERING INFORMATION	
Part No.	Model Number / Description
TAS0143	AMX-1, 2-port Async TDM.
CBL0004	Molded Cable: DB-25 Male/Male, 6 ft. 25-pins.
CBL0005	Molded Cable: DB-25 Male/Female, 6 ft. 25-pins.
TNF0018	External Transformer, 230 VAC, 50 Hz. (optional).

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(Specifications subject to change without notice)

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