

# Sync2IP\_MINI w/LCD

## 2-Port RS-232 Sharing Device



### FEATURES / BENEFITS

- ✓ Data Format - transports Sync/Async serial communications over a 10/100 Ethernet network
- ✓ Data Rates - 1200 bps to 64 Kbps for simultaneous two-port operation, and up to 128 Kbps for single-port operation
- ✓ Serial Data Interface(s) - Up to Two RS-232 DTE Ports
- ✓ Control Signals passed in DCE-DTE: RTS, CTS, DCD, DSR and DTR
- ✓ LAN Connection - 10/100Base-T Standard RJ-45
- ✓ Configure via Ethernet with a Web Browser or Front Panel
- ✓ Firmware Upgrades via 10/100 LAN Port
- ✓ Easily interface legacy serial devices to Ethernet
- ✓ 18-72 VDC Power Supply

### DESCRIPTION

The Sync2IP is an interface conversion product that transports RS-232 serial communications over an Ethernet LAN. It converts a full duplex synchronous or asynchronous serial data stream to a UDP/IP packet stream. Sync serial HDLC is supported. The serial stream consists of transmit and receive data with selected control signals. Serial Data rates of 1200 bps to 64 Kbps for simultaneous two-port operation, and up to 128 Kbps for single-port operation are available to the user.

Two or more Sync2IP units are required to transparently connect serial devices over the LAN. Data conversion is independent of the RS-232 serial port protocol.

In synchronous mode the Sync2IP sends and receives the data bit-for-bit at the synchronous port operating clock rate. Therefore, the interconnected Sync ports must operate at the same nominal clock rate. Guaranteed delivery of Sync data requires error recovery in the customers' equipment.

In the asynchronous mode the data is sent on byte boundaries, and when Async flow-control is honored the interconnected Async ports may operate at different speeds. The Async byte format supported is 8 data bits, 1 stop bit, and no parity. Therefore, the Async byte frame is 10 bits in length. In Async mode there is guaranteed delivery. Packets will be retransmitted for up to 15 seconds, after which time the "session" will be reset.

The Sync2IP is configured via the HTML Browser interface or front panel LCD display and input buttons. The Sync2IP system firmware upgrades are accomplished via the 10/100 LAN port.

Any combination of DCE and DTE devices may be supported over the peer-to-peer connection between one Sync2IP and the other. However, in Sync mode the Sync2IP does not support a connection of two DCE customer devices.

In the DCE-DTE configuration RTS, CTS, DCD, DSR, and DTR are passed through the LAN and presented (in time-sequence with the data) as the same (unprocessed) signals to the device connected to the peer Sync2IP.

In the DTE-DTE configuration DCD control is passed through the LAN and exposed as RTS at the peer Sync2IP unit. (Async only)

Xon/Xoff flow control is not processed by either Sync2IP peer. Xon/Xoff are considered data by the Sync2IP and left to the connected user devices to contend with.

The Sync2IP is housed in a sturdy aluminum chassis and has a -18 to -72VDC power supply.

The Sync2IP has a 3-year warranty and a 24-hour turnaround on warranty repairs.

**EAST COAST DATACOM, INC.**

## SPECIFICATIONS

### Application

Serial to TCP/IP protocol adapter, to send a full duplex serial data stream over a UDP/IP stream

### Capacity

Up to two RS-232 DTE Serial Sync or Async  
Ports converted to one 10/100 Base-T LAN Port

### Interface

Serial: RS-232 Async or Sync  
LAN: 10/100 Base-T, RJ-45

### Data Rates

Serial Data: 1200 bps to 64 Kbps for simultaneous two-port operation, and up to 128 Kbps for single-port operation  
LAN: 10/100Mbps

### Data Format

Data transparent at all data rates

### Serial Buffer

2048 bytes

### Configuration

Browser Interface or Front Panel LCD and push buttons

### User Configuration

Stored in Flash memory

### Firmware Upgrades

Upgraded via 10/100 LAN Port

### Indicators

System: Green or Yellow  
Peer: Green or Yellow  
Port 1: Green or Yellow  
Port 2: Green or Yellow  
Link: Green  
Activity: Yellow

### Power Source

DC Power: DC Voltage, Input Range of -18 to -72vdc

### Environmental

Lead Free: RoHS Compliant  
Operating Temp: 32° to 158° F (0° C to +70° C)  
Relative Humidity: 5 to 95% Non-Condensing  
Altitude: 0 to 10,000 feet

### MTBF – Telcordia Issue 1

DC Powered: 330,734 hours

### Dimensions

Height ..... 1.75 inches (4.44 cm)  
Width ..... 9.412 inches (23.906 cm)  
Length ..... 9.00 inches (22.86 cm)

### Warranty

Three Years hardware, includes software support and software feature upgrades/improvements

### ORDERING INFORMATION

PT# 291000  
Model: Sync2IP\_MICRO w/LCDI  
Desc: Sync or Async RS-232 data to IP Converter

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