Blue Heat/Net Sync

Connect Tech’s Blue Heat/Net Sync offers an Ethernet-to-serial solution for synchronous/asynchronous data communications.

Based on the robust µCLinux (Linux embedded operating system) the Blue Heat/Net Sync can be programmed with application specific protocols. Blue Heat/Net Sync incorporates multiple electrical interfaces, and remote configurability to free devices from a physical connection. Remote access increases location flexibility and simplifies future installations or upgrades, reducing costs.

The Blue Heat/Net Sync can be configured and controlled via serial interface or remotely. With the option to boot from on-board flash memory or a network location, updating devices in the field can be done from a central location.

### Specifications

**Number of Ports**
- 4

**Serial Line Interfaces**

**Encoding Modes**
- NRZI: NRZ, NRZB, NRZI-Mark, NRZI-Space
- Bi-Phase: Bi-Phase-Space, Bi-Phase-Manchester, Differential Bi-Phase

**Control Signals**
- **Single ended:** TxD, RxD, DTR, DSR, RTS, CTS, RI, DCD, RxClock, TxClock
- **Differential:** TxD+/-, RxD+/-, RTS+/-, CTS+/-, DTR+/-, DCD+/-, DSR+/-, RxClock, TxClock

**Baud Rate**
- **Synchronous:** up to 115Kbps, possibly higher depending on application
- **Asynchronous:** up to 230.4 Kbps

**Serial Protocols**
- HDLC/SDLC, MonoSync, BiSync, Isochronous, Asynchronous, Transparent BiSync (with 16 and 32 bit CRC checking)

**LAN Interface**
- 10Base-T, 100Base-TX Ethernet (auto-sensing)

**Platform**
- 66MHz CPU with 16 MB SDRAM and 8 MB Flash

**Configuration**
- Web configuration or via serial port

**Dimensions**
- **Length:** 133 cm/5.24” **Width:** 244 cm/9.61”
- **Height:** 43 cm/1.69”

**Temperature & Humidity**
- Operating Temperature: 0ºC to 60ºC (32ºF to 140ºF)
- Humidity: 5 to 95% Non-condensing

**Clocking**
- Software selectable internal/external clocking. External clocking is provided on TXC and RXC pins

**Bipolar Clock**
- Clock input accepts sin or square wave signals up to 10 Mbps, +/- 10 V

**ESD Protection**
- 15 kV

**Power Requirements**
- 5 V DC (2.4A) to 30 V DC (450mA) using DC barrel or Phoenix screw terminal connector. Optional DC power supply

**Rack Mount**
- 1U, 19” rack mountable

Specifications subject to change without notice.

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**Features**

- **Four synchronous/asynchronous Ethernet-to-serial ports**
- **Synchronous protocols:** V.28, V.10, V.11, V.35, EIA-530 and V.36
- **Software selectable internal and external clocking modes**
- **Web configurable or via serial port**
- **Auto-sensing, 10Base-T, 100Base-TX Ethernet LAN interface**
- **µCLinux operating system**
- **Speeds up to 10 Mbps**
- **DB-25 serial connectors**
- **1U, 19” rack mountable**