



## 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  $\mu$ CLinux (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.

Product Name: Blue Heat/Net Sync  
Part Number: BMG006



Asynchronous models available



### Specifications

|                        |   |
|------------------------|---|
| Number of Ports        | 4   |
| Serial Line Interfaces | Software switchable; V.28 (RS-232), V.10 (RS-423), V.11 (RS-422, X21), V.35, EIA-530, EIA-530A, V.36 (RS-449) - Termination resistors for V.11 and V.35         |
| Encoding Modes         | NRZI: NRZ, NRZB, NRZI-Mark, NRZI-Space<br>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<br>Differential: TxD+/-, RxD+/-, RTS+/-, CTS+/-, DTR+/-, DCD+/-, DSR+/-, RxClock, TxClock |
| Baud Rate              | Synchronous: up to 10 Mbps<br>Asynchronous: up to 230.4 Kbps  |
| Synchronous Protocols  | DLC, HDLC, MonoSync, BiSync, 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"<br>Height: 43 cm/1.69"   |
| Temperature & Humidity | Operating Temperature: 0°C to 60°C (32°F to 140°F)<br>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, +/- 10V   |
| 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  |
| Regulatory Approvals   | EN 55022, EN 55024, FCC/ICES-003  |

### 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
- ✓  $\mu$ CLinux operating system
- ✓ Speeds up to 10 Mbps
- ✓ DB-25 serial connectors
- ✓ 1U, 19" rack mountable

Specifications subject to change without notice.

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**RoHS**

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