Connect Tech Inc.

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.

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

Asynchronous models available

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

✓ DB-25 serial connectors

✓ 1U, 19" rack mountable

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 **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, Asychronous, Transparent BiSync (with 16 and 32 bit CRC checking)
LAN Interface	10Base-T, 100Base-TX Ethernet (auto-sensing)
Platform	66MHz CPU with16 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: 0°C to 60°C (32°F to 140°F) 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

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