

# Ethernet-to-serial

Serial Communications

## Blue Heat/Net

### Features

- Four or eight RS-232 or software selectable RS-232/422/485 serial ports
- Configure over serial interface, Telnet or via user-friendly web browser interface
- Auto-sensing, 10Base-T, 100Base-TX Ethernet LAN interface
- Supports Raw TCP and PPP server and client modes
- Programmable embedded Linux core
- Free Software Development Kit (SDK) for software customization
- Data communication speeds up to 460.8 Kbps
- DIN rail mounting option for all DB-9 models
- RoHS compliant



### Specifications

<b>Number of Ports</b>	4 or 8 ports (2 and 16 port models also available)
<b>Electrical Interface</b>	RS-232 or software selectable RS-232/422/485
<b>LAN interface</b>	10Base-T, 100Base-TX Ethernet (auto-sensing)
<b>Control Signals</b>	RS-232: DTR, DSR, RTS, CTS, TxD, RxD, RI*, DCD, GND RS-422/485: TxD+/-, RxD+/-, RTS+/-, CTS+/-, SR (*DB-9 models only)
<b>Baud Rate</b>	50 bps to 460.8 Kbps (custom baud rates also available)
<b>Protocols</b>	IP, TCP, UDP, ARP, RARP, TFTP, DHCP, BootP, HTTP, Telnet, ICMP, PPP
<b>CPU Core</b>	ColdFire 32 bit, 66MHz CPU features 16MB SDRAM and 2MB or 4MB Flash
<b>Configuration</b>	Web browser (HTTP), Telnet console or serial utility
<b>Dimensions</b>	<b>RJ-45:</b> Length: 7.25"/18.42 cm <b>DB-9:</b> Length: 9.61"/24.41 cm Width: 5.25"/13.36 cm                      Width: 5.25"/13.34 cm Height: 1.35"/3.43 cm                      Height: 1.69"/4.29 cm
<b>Environmental</b>	Operating Temperature: 0° C to 70° C (32° F to 158° F)
<b>Connectors</b>	RS-232: 8 pin RJ-45 connector or DB-9 connector RS-232/422/485: DB-9 connectors LAN: RJ-45 connector
<b>Software Compatibility</b>	Windows 2000/XP/XP x64/Server 2003/ Vista, QNX 4.X/6.X and Linux (Contact Connect Tech for most recent list)
<b>Surge Suppression</b>	EN61000-4-2 ESD    EN61000-4-3 EMC    EN61000-4-4 EFT
<b>Power Requirements</b>	110/120V AC, 50/60 Hz, 5 V DC power adapter (5-30 V DC on select models)
<b>Regulatory Approvals</b>	EN 55022, EN 55024 <b>DB-9 models:</b> UL60950 <b>UL</b> US FCC Class A, Part 15 <b>FC</b> UL916 ICES-003                      CB Scheme

The Blue Heat/Net enables you to connect any of your RS-232 or RS-422/485 serial devices to your Ethernet LAN. This gives you remote access to any serial device, reduces cabling costs and simplifies future installations and upgrades. It also frees your devices from a physical PC connection, offering greater flexibility in location.

Based on the robust uCLinux (Linux embedded operating system), the Blue Heat/Net can be programmed with application specific protocols or the user can work with a variety of protocols available on the supplied firmware.

The Blue Heat/Net can be configured and controlled via serial interface or remotely via Telnet or web based HTTP. 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.

All Blue Heat/Net products are covered by a lifetime warranty and free technical support is also included.



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CTIX-00020 Rev.0.09 May 16, 2008

# Blue Heat/Net

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### Applications

The Blue Heat/Net can network-enable any of your legacy serial devices, giving you the power to remotely control your serial devices from any work station connected to your Ethernet LAN, or the Internet. This eliminates the need for a dedicated PC, cutting equipment expenses, cabling needs, and the time required to maintain and collect information from individual workstations.

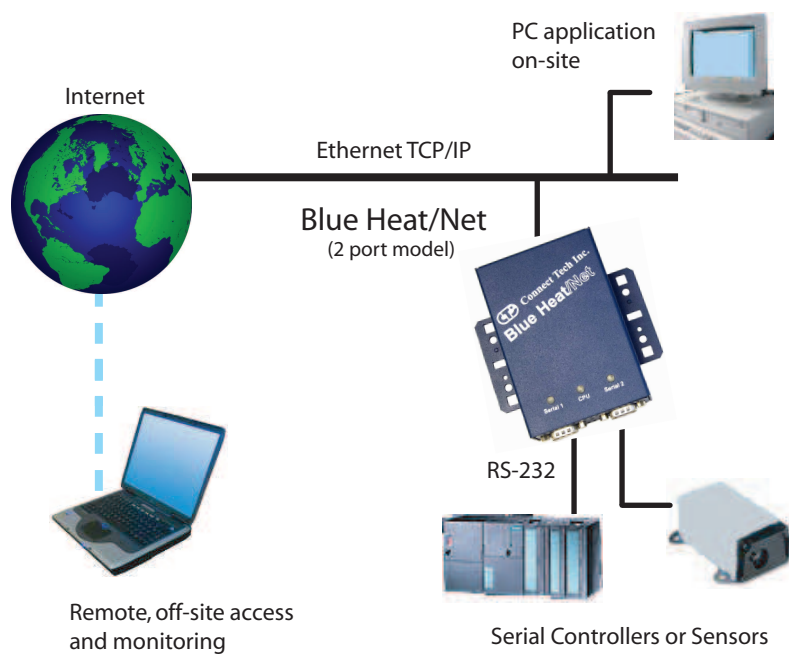
An embedded uCLinux core (a Linux embedded operating system) and a free Software Development Kit (SDK) offer the ability to program your own unique protocol and upload that protocol to the Flash memory.

All DB-9 models can be DIN rail mounted. The 2 port Blue Heat/Net is specifically designed for the harsh conditions of the factory floor. Compact and rugged, it operates in an Industrial Temperature range of -40°C to 85°C, and includes multi-mode DC power or Power over Ethernet (PoE).

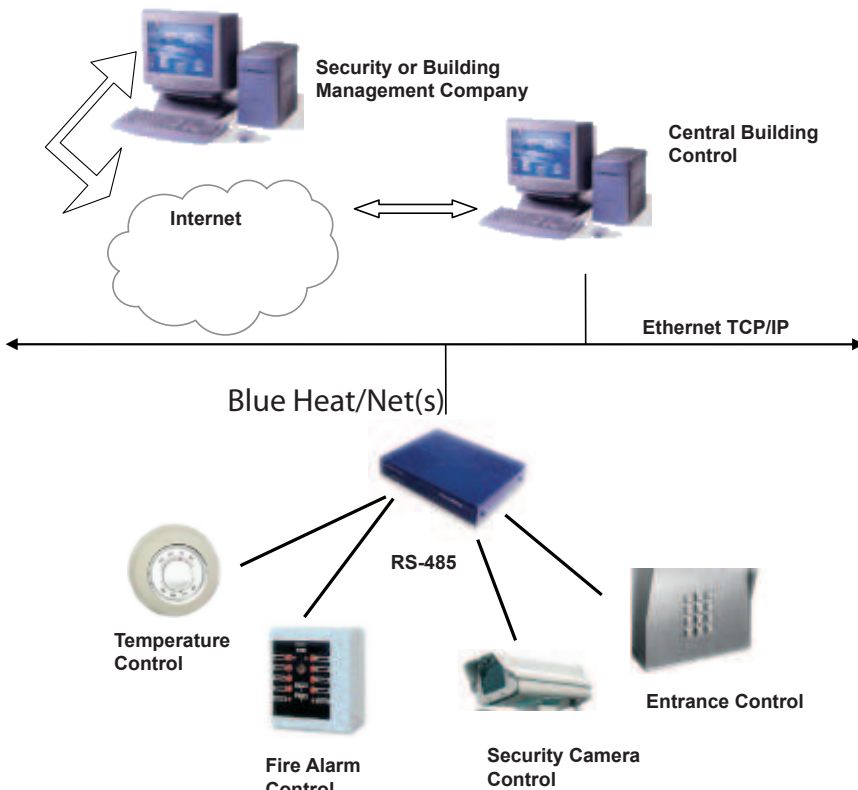
Available in 2, 4, 8 and 16 ports, the Blue Heat/Net is well suited for applications such as:

- Manufacturing/Industrial Automation
- Point-of-Sale/Retail
- Building Automation
- Transportation Stations
- Patient monitoring systems
- Process Control
- Any application requiring communication via TCP/IP Ethernet with serial devices that do not have built-in network ports.

### Industrial Automation and the Blue Heat/Net



### Blue Heat/Net in Building Automation



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