



PCFW-104-ETH 900 MHz & 1.3 GHz PC/104 Long Range Ethernet Bridge

Innovative Solutions for Defense and Industry

The PCFW-104-ETH is a long range, very robust, fully NE2000/RTL8019 compliant PC/104 Ethernet Bridge and is fully compatible with the existing FreeWave FGR-115RE Ethernet Radio. It is ideal for applications where an Ethernet interface is required, but an average throughput in the 100 Kbps+ range is sufficient. When using radio for data communications, there is always a tradeoff between throughput and range. This product provides both a long range and a significant data rate. For example, SCADA applications may need a long-range link, but they rarely need throughput above 100 Kbps.

With this product you can achieve full Ethernet connectivity in your embedded application without the need for external cables and bulky external radios over distance up to 60 miles.

Drivers are supplied and are also native for NE2000 Mode in Linux, QNX, and MS Windows, CE.NET, etc.

Manual configuration is achieved via DOS application.



- 3.6W x 3.8L x 0.6H inches.
- 100% compatible with the existing FGR-115RE radios.
- Radio can be powered from either the PC/104 Bus or an external power supply.
- Tested with DOS, ROM-DOS, Windows 98, NT, 2000, XP, CE.NET, Linux and QNX. Compatible with any OS supporting NE2000.
- Plug and Play or Easy Manual Configuration via DOS application.
- Fully NE2000 compliant.
- High Speed - 100 KB throughput.
- Long Range - 60+ mile line of sight range.
- Error Free Communications - 32 bit CRC with automatic retransmission.
- Low Power Consumption - Less than 60 mA in full time receive, and 5 mA in sleep at 12 volts.
- Noise Immunity - Superior Performance in noise congested environments.
- Secure - Proprietary spread spectrum technology prevents detection and unauthorized access.

MICROBEE SYSTEMS CORPORATION

21723 N. Meadowview CT
Colbert, WA 99005

Phone: 256-426-2431
Fax: 509-466-3635
E-mail: David.thomas@microbee-systems.com
<http://www.microbee-systems.com>



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