

Operational description.

Product overview

This product is a Ethernet to 2.4 GHz RF transceiver.

The product consists of a custom IBM compatible computer with a network interface controller (NIC) and a Agere ORINOCO radio transceiver installed in a PCMCIA port . Attached to the RF output port is a 8 dBi omni directional antenna.

The RF card:

The unit uses multiple chipping codes and other special processes to achieve its high-speed rate. 1 Mb/s uses DBPSK, 2 Mb/s uses DQPSK, 5.5 Mb/s and 11Mb/s uses complementary code keying (CCK).

The oscillators employed are a VCO from 2060 to 2100MHz controlled by software, 704 MHz, and which when divided by 2 gives the 352 MHz an IF local oscillator.

The computer: The CPU uses a 33MHz oscillator.