

Description of Product: XLR

The BreadCrumb XLR is an 802.11 2.4Ghz Direct Sequence Spread Spectrum dual radio transceiver that provides wired and wireless data communications. It is designed for Professional and OEM applications as a standalone radio system.

The unit provides communication using data packets transmitted at a rate of 1Mbit, 2Mbit, 5.5Mbit, or 11Mbit per second. The data packetization operations are under the control of a MAC processor and by the software driver on the embedded computer module assembly.

The device can simultaneously route data between one radio interface, two radio interfaces, and an Ethernet port on the device. The device amplifies the radio signals to a level of 27dBm and combines the dual radio outputs onto a single RF output port via a ceramic diplexer.

The XLR houses a vehicular power supply, a single board computer, radio modules and the amplification/diplexer board.

The antenna system tested included a 9.0dBi external antenna attached to each radio transceiver. The 9dBi antenna is a OD24M-9 antenna manufactured by Pacific Wireless. The Frequency of operation is 2400 – 2485.