

Operational Description

TR-900 Series

Wireless Network Adapter

Tranzeo Wireless Technologies Inc.

Lab: 19473 Fraser Way, Pitt Meadows, BC, Canada V3Y 2V4



Bruce Balston
EMC Engineer



Andrew Marles
EMC Coordinator

A.1 Operational Description

The device is a wireless network bridge designed specifically for outdoor applications. The device provides a bridge between IEEE802.3 wired Ethernet LANs and IEEE802.11a/b compliant wireless networks. It uses an external antenna coupled with a 802.11a/b transceiver to connect to remote wireless clients. The transceiver operates in the frequency bands 2400-2483.5; 5725-5850 MHz. The device transmits digital network data. The unit is mounted externally in fixed point-to-point installations. It is mounted on the exterior of a building or typically for broadband internet access.

The type of RF modulation is DSSS and OFDM. DSSS is used at 2.4 GHz and OFDM is used at 5.8 GHz. The device can transmit data at a bit rate of 11/54 Mbps or a real-world data rate of approximately 4/27 Mbps. A 128 bits Wired Equivalent Protection (WEP) algorithm is used for secure communications. The device's standard compliance ensures that it can communicate with any 802.11a/b network.

The firmware used with the device prevents the use of channels outside the specified frequency bands.

The product is used exclusively in a professionally installed, fixed point-to-point environment.