



## **Operational Description**

**TR-6500**

**Wireless Network Adapter**

**Tranzeo Wireless Technologies Inc.**

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

A handwritten signature in blue ink that appears to read "Andrew Marles".

Andrew Marles  
EMC Manager

A handwritten signature in blue ink that appears to read "Sam Zahed".

Sam Zahed  
EMC Engineer

## 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 IEEE802.11b compliant wireless networks. It uses an integrated antenna, or an external antenna in case of the TR-6500-N, coupled with an 802.11b transceiver to connect to remote wireless clients. The transceiver operates in the frequency band 2400-2483.5 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 typically for broadband internet access.

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