TRANZEO
EMC LABS INC

Operational Description

TR-FDD Series

Wireless Network Adapter
Tranzeo Wireless Technologies Inc.

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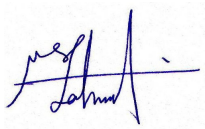
Report No.: 090407.1

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



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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 wireless networks. It uses either an internal or an external antenna coupled with a transceiver to connect to remote wireless clients. The transceiver operates in the frequency band 5725-5850 MHz in full duplex mode using channel specific duplexers (Channel Shields). 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 OFDM which is used at 5.8 GHz with 20, 10 and 5 MHz bandwidths. The device can transmit data at a bit rate of 54 Mbps or a real-world data rate of approximately 27 Mbps. A 128 bits Wired Equivalent Protection (WEP) algorithm is used for secure communications.

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.