

# **Operational Description**

## **TR-FDD-GT Series**

### **Wireless Network Adapter**

### **Tranzeo Wireless Technologies Inc.**

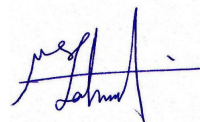
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## **A.1 Operational Description**

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 Privacy (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.**