

**Operational Description**  
**FCCID: QRF-GNADX2NT4**  
**Wireless Mesh Router**  
**Tranzeo Wireless Technologies Inc.**

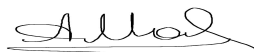
Date: July 8, 2009

Report No.: 070709.1

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## Operational Description

The device is a wireless mesh router designed specifically for wireless mesh networks. The device has two radios, an 802.11a/b/g mesh backhaul radio and an access point radio for 802.11a/b/g client devices. It uses two external antennas, one for each radio. The transceivers operate in the frequency bands 2400-2483.5, 4940-4990, and 5725-5850 MHz. The device transmits digital network data. The unit is mounted in a fixed point-to-point installations. The device can be used to create either a stand alone or an internet extension network.

The type of RF modulation is DSSS and OFDM. Both DSSS and OFDM are used at 2.4 GHz while at 4.9 and 5.8 GHz only the OFDM is used. The device can transmit data at a bit rate of 11 Mbps in DSSS mode and 54 Mbps in OFDM mode or a real-world data rate of approximately 6.3 and 28.7 Mbps respectively. The device's standard compliance ensures that it can communicate with any 802.11a/b/g network. An access point radio for secure communications uses WEP/WPA/WPA2 (PSK w/TKIP, EAP-TLS, EAP-PEAP TLS, EAP-PEAP MSChap/v2, EAP-TTLS) algorithms, whereas a mesh radio uses AES128 encryption and MAC address filtering.

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.**