

Operational Description

FCCID: QRF-RAEKT2KN2

Wireless Mesh Router

Tranzeo Wireless Technologies Inc.

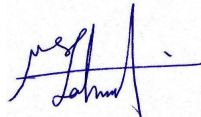
Date: March 21, 2007

Report No.: 210307.1

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



Cam Finnigan
EMC Engineer



Sam Zahed
EMC Coordinator

A.1 Operational Description

The device is a wireless mesh router designed specifically for wireless mesh networks. The device has two radios, an 802.11a mesh backhaul radio and an access point radio for 802.11b/g client devices. It uses two external antennas, one for each radio. The transceivers operate in the frequency bands 2400-2483.5 and 5725-5850 MHz. The device transmits digital network data. The unit is mounted in fixed point-to-multi 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 5.8 GHz only 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 4 and 27 Mbps respectively. 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/g 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.