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**TR-6015; TR-6019 Test Report**  
**Appendix E – Operational Description**

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## E.1 Operational Description

The TR-6000 series is a wireless network bridge designed specifically for outdoor applications. The device provides a bridge between IEEE802.3 wired Ethernet LANs and IEEE802.11a compliant wireless networks. It uses an external antenna coupled with a 802.11a transceiver to connect to remote wireless clients. The transceiver is connected to N-female and 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 or, typically for broadband internet access.

The type of RF modulation is DSSS. The device can transmit data at a bit rate of 11 Mbps or a real-world data rate of approximately 4 Mbps. 64/128 bit Wired Equivalent Protection (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 2400-2483.5 MHz band.

**The TR-6000 series product (including the TR-6015 and TR-6019) is used exclusively in a professionally installed, fixed point-to-point environment.**