

FCC ID: PIDGWU-200 Operational Description

The GWU-200 is a mobile WiMAX CPE (Customer Premise Equipment) designed for connection with WiMAX networks operating in the 3650-3700 MHz band.

When plugged into the USB port of a personal computer or laptop, the GWU-200 provides the user with an "always on" broadband connection via the WiMAX network.

The CPE transmit power is controlled via the WiMAX basestation to which it is connected up to the maximum permitted TX power that is set at the factory. Lower transmit levels are used for CPE close to the basestation to optimise receive signal level at the basestation.

The CPE is a transceiver using OFDM with QPSK and 16-QAM modulations in a TDD duplexing mode.

The CPE supports operation in 5 MHz or 10 MHz channel bandwidths.

The device is powered by the 5V USB power supply of its host machine. This supply voltage is then down converted to the required voltages supplied to the key component of the RF circuitry as shown in the accompanying exhibit "GWU-200_3G_Circuit Diagram".