

Technical description of the BTEAR Headset

The BTEAR unit is a Bluetooth™ compatible Class 2 device, which receives and transmits in the frequency range of 2.402-2.480GHz. It is a spread spectrum (frequency hopping) headset; 79 channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The unit communicates with other Bluetooth devices using a time division duplex scheme that alternates transmission and receive functions, and thus uses the same antenna to transmit and receive at different times.

The unit contains CSR single chip radio with external 4mB Flash memory, with 3V and 1.8V voltage regulation circuit, battery protection and charging circuit. A common antenna is used to send and receive RF signals.

The MC145483 codec is used to convert the receive and transmit data in to audio signal.

Battery charging is done with an overload and overcharge protection circuit to charge a 130mAH, rechargeable 3.6V Lithium Polymer cell.

The headset can communicate with other Bluetooth™ products that support the Headset Profile. Refer to the users manual for basic functions of this unit.