

Configurations

LK-1-A0 ListenTALK Transceiver (North America) LK-1-E0 ListenTALK Transceiver (Europe EU28, Australia) LK-1-J0 ListenTALK Transceiver (Japan)

Architectural Specs

The transceiver shall be a digital transceiver operating on the 1.9 GHz unlicensed PCS band utilizing Frequency-Hopping Spread Spectrum (FHSS) techniques allowing interference free full duplex communication. The device shall employ a multiply layer security protocol consisting of a 40-bit (pin free) group subscription, 32-bit authentication and a 64-bit encryption scheme enabling secure conversations. It shall be easy to pair and form groups via Near-field communication (NFC), Docking Station or Software Suite. It shall be simple to operate with a Power, Talk and Volume Up and Down buttons. For North America, it can support up to 20 simultaneous groups. For Europe, it can support up to 30 simultaneous groups. It shall be powered via a removable non-proprietary rechargeable lithium-ion battery or via an optional 3 AAA alkaline battery compartment.

The transceiver shall have a 3.5 mm TRRS CTIA compliant headset connection allowing operation with a standard electret style headset. It shall have a built-in-microphone with auto detect circuitry if users elect to use their personal ear buds. It shall have a 64 x 128 OLED display with auto dimming allowing display of all current status (group name, volume levels, mute, battery status, time remaining, signal strength, unit ID, mode, etc.) The device shall have a leader clip and when inserted the unit automatically designates itself as a leader and allows the leader/presenter to control pairing/group creation and leader talkback modes (listen only, leader only or group).

The transceiver shall have a signal-to-noise ratio of 70 dB or greater and shall have an audio frequency response of 40 Hz – 15 kHz (± 3 dB). The device shall incorporate automatic battery charging circuitry to charge and maintain the lithium-ion battery either via the micro USB port or via the docking station using the additional charging contacts on the bottom of the device.

The ListenTALK LK-1 is specified.