

scala-700™ Technical Description

Specification Parameters

- Technology Compliant with Bluetooth™ ver 1.2
- Maximum link distance 30 feet or 10 meters
- Typical talk time up to 10 hours
- Typical standby time up to 200 hours
- Typical charging time 2-4 hours
- Power Source Li Polymer battery
- Weight 11gr

scala-700 Bluetooth headset is based on a qualified (Bluetooth and FCC) CSR (Cambridge Silicon Radio) Bluetooth chip – BC31A223A. Please refer to www.csr.com for detailed description of chip features.

The chip implements all radio and baseband Bluetooth related features. All modulation, frequency scheme, hopping and everything else is performed by the chip. The developer using this chip can only write an application using the on chip flash. There is no access to any radio features neither baseband implementation features. The chip is qualified by Bluetooth and FCC.

The chip requires a 16Mhz Crystal.

The chip is connected directly to a printed antenna, through RF matching circuit that consist of a BALUN and filtered.

CODEC is implemented on the chip and is connected directly to the speaker and microphone.

Charging circuit for the LiPolymer battery is implemented on CSR chip.

The power circuit consists of a 110 mAh LiPolymer 4.2V, and a 1.8 DC2DC voltage that is also implemented in CSR chip with external coil.