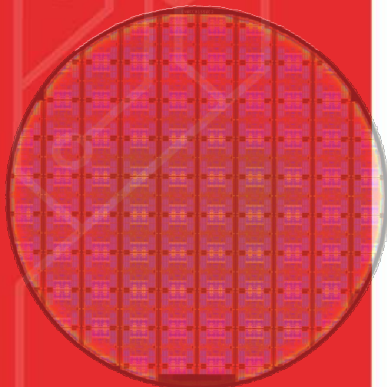
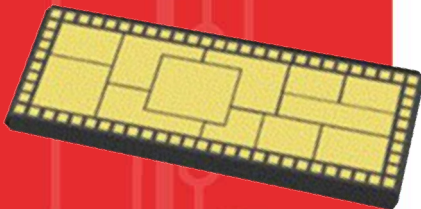




Taiwan Microelectronics Inc.



www.taiwanmicro.com.tw

TM2102

LGA 5x15X1.3mm-58L

2.4GHz wireless Audio SiP IC

The Saffron (XC1602) System in Package (SiP) is one of the core wireless components used for low power audio transmitters (Tx) and receivers (Rx) in Eleven Engineering's wireless audio platforms. This SiP is a highly integrated device that contains all of the required components for a generic RF turn-key solution except for an external antenna and reference crystal. Eleven's proprietary adaptive frequency hopping protocol uses a narrow footprint in the 2.4 GHz band allowing seamless co-existence with other devices and offering unparalleled Quality of Service. Saffron outputs digital audio information in I2S format. Saffron can function as both a transmitter and receive depending on firmware.

Features

- Uses Eleven's XInC2 multithreaded RISC processor, specifically built for high fidelity wireless audio
- Digital I2S Audio Output
- 2.4 GHz wireless at 2.0 Mbps
- Highly customizable RF-Link for multi-purpose applications
- High RF output power , High receive sensitivity (-80 dBm)
- Walking Frequency Diversity™ (WFD) – Eleven's proprietary adaptive frequency hopping protocol.
- Small form factor. Low power design
- Compatible with FCC/ETSI regulations
- Meets all EuP power consumption requirements
- MSL-3, REACH/RoHS complaint

Applications

- 2.4Ghz High resolution wireless Audio

Functional Block Diagram

