

## 產品

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## IS1681S Brochure

### GENERAL DESCRIPTION

The ISSC IS1681S is a highly integrated ultra-low power, single-chip RF and baseband IC for Bluetooth v3.0+EDR audio applications. The IS1681S builds in an audio processor and high performance stereo codec to support the enhanced audio and speech. In addition, a power management unit and program ROM/RAM are integrated to reduce BOM cost for various Bluetooth applications.

### FEATURES

### APPLICATIONS

- Compliant with Bluetooth Specification v.3.0 + EDR in 2.4 GHz ISM band
- Class 2 Bluetooth radio with 4dBm transmit power and -91dBm receiver sensitivity
- 16-bit/32-bit run time configurable audio processor
- Noise and echo reduction
- Stereo codec: 94dB DAC/85dB ADC
- Built-in 3V and 1.8V linear regulator
- Build-in switching regulator
- Audio line-in switch and gain control
- Built-in Li-ion battery charger
- 10 hours playback for 120mAH battery
- Bluetooth stack and audio processing is executed in the build-in program ROM and data RAM
- 7x7 mm2 56QFN package