

PRODUCT DESCRIPTION

ISSC IS1631N is a compact, high integration, ultra-low cost, low power consumption CMOS RF & baseband single chip system IC for Bluetooth 2.0 with EDR (Enhanced Data Rate) 2.4GHz applications. It is fully compliant with the Bluetooth specification and completely backward-compatible with BT1.1, and 1.2 systems. IS1631N incorporates a Bluetooth 1M/2M/3Mbps baseband and RF, single-cycle 8051 CPU, TX/RX MODEM, Memory controller, Task/Hopping controller, HCI UART interfaces, CVSD/A-law/ μ -law decoder and the ISSC Bluetooth software stack. It also integrates voice CODEC, voltage sensors, battery detector, PMU (Power Manage Unit) to reduce external components requirement for various Bluetooth's applications.

The IS1631N used for embedded Bluetooth applications also runs its upper software layers from the on-chip memory. Together with an internal voice codec and PMU, a complete Bluetooth headset application can be realized.

The PMU (Power Manage Unit) inside the chip can deal with charging and voltages regulate functions.