



Size: 15mm x 27.8mm x 2.3mm

FEATURES:

- Bluetooth Class 1 communication range 100 meters outdoor line of sight: PA and LNA 100p used in RF front end
- 16C550 UART interfaces
- USB 1.1 full speed interface
- 4 GPIOs
- PCM interface
- JTAG Debug interface
- Capability for embedded solutions
- Optional built-in 8M flash
- Point to multipoint, 7 slaves
- Power management, PARK, SNIFF & HOLD
- Qualified for Bluetooth spec. 1.2 Compliance
- Small footprint: 15mm x 27.8mm x 2.3mm

BENEFITS :

- Standard low power digital CMOS process
- Embedded microcontroller and baseband to offload processor-intensive tasks from host CPU
- Complete solution with LMP and HCI provided in firmware (lower stack) , common SW profiles and Upper stack

M1G0-30000 BLUETOOTH BASEBAND MODULE

The M1G0-30000 Bluetooth Baseband from Systems and Chips, Inc. is PCB module with a Bluetooth v1.2 compliant baseband controller designed to be suitable for both host and embedded applications. The baseband controller is integrated with a Radio module and Flash memory to form complete Bluetooth systems.

A wide range of external interfaces like USB, GPIO, PCM and a pair of UARTs, the M1G0-30000 is ideally suited for access applications in desktop and mobile computing environments, home base stations, and hot spot network access points.

APPLICATIONS

- PCs, laptops, PDAs
- Peripheral devices
- Consumer electronics
- Data access points
- Ad hoc networking
- Automotive and Industrial applications

BLUETOOTH CLASS 1 CHARACTERISTICS

The M1G0-30000 module has a built-in PA and LNA circuit that allows the RF transfer distance to reach Bluetooth Class 1 transfer standards. The PA (Power Amplifier) used provides excellent linearity and efficiency over the range of operation voltages for this module. While the LNA (Low Noise Amplifier) chosen in this circuit has internal input/ output matching. Together, this well-tuned power amplifying circuitry can provide a distance of over 100 meters for data transfer in an outdoor environment.

LOW POWER CONSUMPTION

The M1G0-30000 module consumes less power than most Bluetooth Baseband Modules out in the market today. It runs on the standard low power digital CMOS process. Making it a great solution that targets cost-sensitive customer applications that require fast design-in, low power consumption and small designs.



M1G0-30000 BLOCK DIAGRAM

