MCM0941
SERIES BLUETOOTH CONTROLLER

Package Size: 8mmX8mm ,96pin CABGA

FEATURES:

- Bluetooth qualified for both 1.1 &1.2
- Point to multipoint, 7 slaves
- Variable input clock frequency
- Two 16C550 UARTs frequency
- USB 1.1 full speed interface
- USB1.1 host interface
- Up to 16bits general purpose IO
- JTAG Debug & Test inferface
- Capability for embedded solutions
- External flexible Flash sizes, 2-8Mbit
- Power management, PARK,SNIFF & HOLD
- 8 x8 mm 96pins, CABGA package
- Meets RoHS requirements for hazardous substances

BENEFITS :

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

The **MCM0941** Bluetooth controller from Systems and Chips, Inc. is a generic baseband and radio controller designed to be suitable for both host and embedded applications. The Bluetooth controller is integrated with Flash memory to form complete Bluetooth systems.

The **MCM0941** is based on the scalable Ericsson Bluetooth Core (EBC™) architecture.

The system controller is an embedded RISC microprocessor communicating with the EBC™ and peripheral interfaces over an AMBA™ system bus. This configuration allows for embedded stand-alone Bluetooth applications where your target application is embedded within the baseband controller, in addition to traditional host-based applications. This possibility is especially useful in accessory type applications like cordless headsets, industrial sensor and actuator devices.

Providing a wide range of external interfaces like USB, GPIO, PCM and a pair of UARTs, the MCM0941 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 application
- Home applications

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MCM0941 BLOCK DIAGRAM