

Memory Modules

Flash Products

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Communication
Products

Preliminary

Bluetooth USB Adaptor



BlueOpal

SMART Modular Technologies "Blue Opal" USB Adaptor, is a Class 2 Bluetooth device compliant with Bluetooth Specification 1.1 and USB Specification 1.1, is based on the Cambridge Silicon Radio's BlueCore 2 Single Chip Silicon Solution. "Blue Opal" USB adaptor features an 8Mb flash for firmware which is controlled via USB interface. A standard USB male type A connector provides the USB signals for the Blue Opal USB adaptor.

FEATURES

- Size 15 x 38mm
- Class 2 Bluetooth USB Adaptor
- Based on CSR BlueCore 2 Single Chip Solution
- Receiver Sensitivity: Better than -82dBm (raw BER 0.1% with any compliant transmitter)
- Link control function implemented in hardware compliant to Bluetooth Specification 1.1
- USB core up to 12Mbps
- Piconet and scatternet functions, including master / slave switch capabilities
- Power provided by the host

PROFILES SUPPORTED

- Dial-up networking profile
- LAN Access Profile
- File Transfer Profile
- Fax Profile
- Serial Profile
- Object Push Profile

The USB adaptor has an internal antenna and has been tested to observe receive sensitivity better than -82dBm and power output +2dBm (typical). The RF performance of the module is stable within +/-1dB under the temperature of -10deg.C to +85deg.C.

The Blue Opal USB adaptor can be plugged either directly into a USB port or via an extended cable to a host computer. The USB Adaptor can be supplied with ImpulseSoft's Bluetooth Software Stack, BluePC that supports Win 98 ME, Win 98 SE, Win 2000 and Win XP.

"Blue Opal" is designed to address the Mobile Personal Computer & Desktop Computer "Add-On" markets, providing Bluetooth support for current & legacy machines.

SMART Modular Technologies, Inc. is a wholly owned operating company within Solecron Corporation's (NYSE: SLR) Technology Solutions Business Unit. SMART, a leading independent manufacturer of memory and communication sub-systems offers more than 500 products to premier OEMs in the computer, networking and telecommunications industries. Through its relationship to Solecron, SMART offers customers competitive outsourcing advantages, such as access to advanced manufacturing technologies, shortened product time-to-market, reduced total cost of ownership and more effective asset utilization.

SMART Modular Technologies Communications Products Division (CPD) has extensive experience & focus upon leading-edge, client-side personal communication sub-systems for wireless and wired Personal Area, Local Area and Wide-Area Networks.

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Specifications

General

- Bluetooth Specification 1.1 compliant
- Power Requirement: Provided by the host
- Power Consumption at 5V
 - 1mA at standby
 - 7mA at idle
 - 65mA (typical) at point-point operation
 - 75mA (max.) at operation

Radio

- Frequency Range: 2.402 – 2.480 GHz
- Transmit Power (Tx): 0dBm (typical)
- Receive Sensitivity (Rx): Better than
 - 82dBm @0.1% BER
- Range: Up to 30m.

Antenna

- Internal Antenna
- Peak Gain: +2dBi
- VSWR: <2.5 : 1
- Polarization: Linear

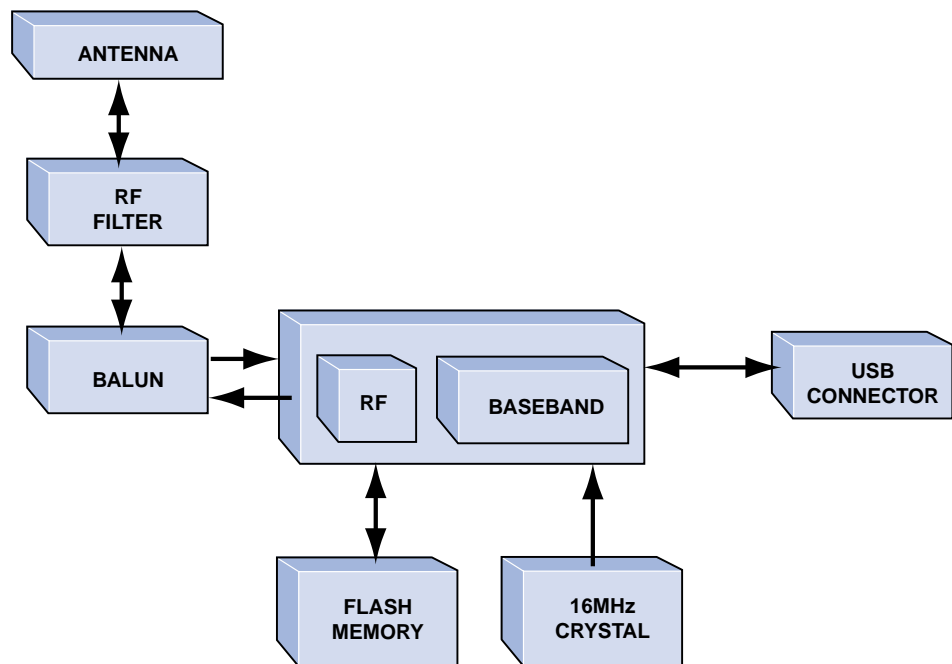
Temperature

- Operating temperature: -10°C to 85°C
- Storage temperature: -40°C to +150°C

Interface

- Standard USB male Type A connector

Block Diagram



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