



## **apm6628 WiFi 802.11g/b & BT2.0+EDR Combo Module**

### **DESCRIPTION**

With a small form factor of 12.5×12.5×1.25mm, the apm6628 is a full-featured WiFi 802.11g/b & Bluetooth v2.0+EDR combo module that simultaneously provides Bluetooth and WiFi connections.

By providing flexible host interfaces combined with support for embedded operating systems, the apm6628 enables rapid integration of WiFi and Bluetooth technology into a variety of host devices. The pre-tested module eliminates the need to create custom designs, resulting in greatly reduced development risk, costs and time-to-market.

### **GENERAL FEATURES**

- Small footprint: 12.5×12.5×1.25mm LGA package
- Support for 2-wire & 3-wire Bluetooth-WiFi co-existence and VoIP optimizations
- Support for dual antenna and single antenna configurations for WiFi and Bluetooth
- Shared crystal, EEPROM, LNA for WiFi, and full RF front ends for WiFi and Bluetooth integrated
- Immune from EM interference with metal shielding
- GSM/GPRS/DCS/PCS/WCDMA/GPS radio non-interference
- Embedded OS supported
- RoHS complaint

### **WIFI FEATURES**

- IEEE 802.11g/b compliant

- Frequency band: 2.4 to 2.497GHz (1 to 14 channels )
- Host interface:
  - SDIO: SDIO 1-bit, SDIO 4-bit, SDIO SPI
- Support for IEEE 802.11e QoS
- Support for IEEE 802.11i advanced security
- Dual 60MIPS RISC processors integrated for host offload of all 802.11 functions
- Support for Fixed Mobile Convergence - UMA (Unlicensed Mobile Access) and IMS (IP Multimedia Subsystem)

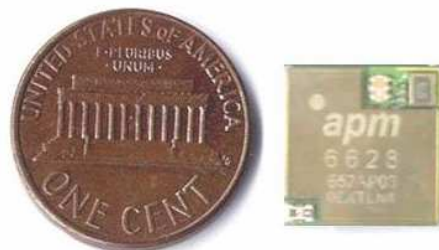
### **BLUETOOTH FEATURES**

- Bluetooth Specification v2.0+EDR Class 2 compliant
- Frequency band: 2.400 to 2.483.5GHz (79 channels)
- USB and UART port to 3MBaud

### **APPLICATIONS**

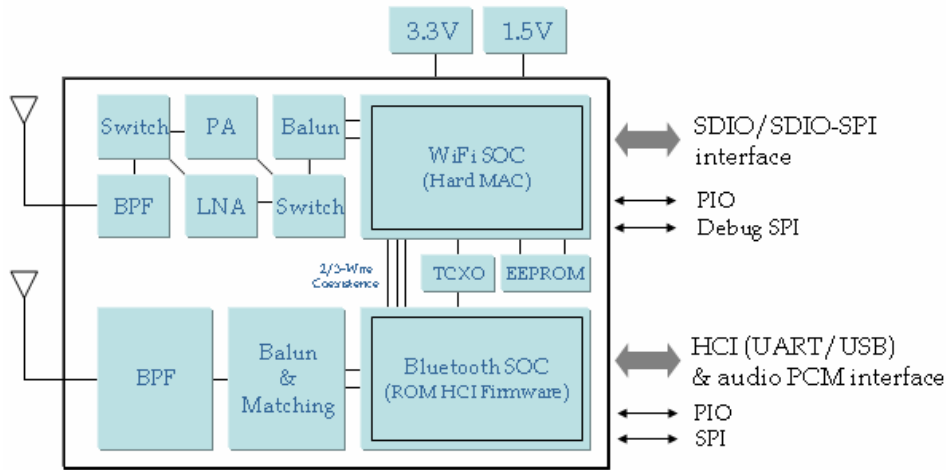
- Smartphone / PDA / PDA phone / WiFi phone / DSC / DVC with both WiFi and Bluetooth connectivity

### **APPEARANCE**





**BLOCK DIAGRAM**



**PIN ASSIGNMENT (TOP VIEW)**

