

apm6656 WiFi 802.11 b/g/n & BT2.1+EDR Dual Radio Module

DESCRIPTION

With a small form factor of 9×11×1.3mm max., the apm6656 is a full-featured WiFi 802.11b/g/n & Bluetooth v2.1+EDR dual radio module that simultaneously provides WiFi and Bluetooth connections.

By providing flexible host interfaces combined with support for embedded operating systems, the apm6656 enables rapid integration of WiFi and Bluetooth technology into a variety of host devices. The pre-tested and pre-certified module eliminates the need to create custom designs, resulting in greatly reduced development risk, costs, and time-to-market.

GENERAL FEATURES

- Small footprint: 9×11×1.3 mm max
- Support for state-of-the-art WiFi-Bluetooth co-existence and VoIP optimizations
- Support for single antenna configuration for WiFi and Bluetooth
- EEPROM and full RF front-end integrated for WiFi and Bluetooth
- External clock sharing for WiFi and Bluetooth
- Excellent GSM/GPRS/DCS/PCS/WCDMA/GPS radio coexistence
- Support for drivers on embedded OS
- RoHS compliant

WIFI FEATURES

- IEEE 802.11b/g/n compliant
- Host interface: SDIO 1-bit, SDIO 4-bit, SDIO SPI
- Support for IEEE 802.11e QoS.
- Support for IEEE 802.11i advanced security.

- Support for WAPI security
- Supports Access Point tethering functionality (Soft AP for Linux and Android)
- Designed for Wi-Fi Direct™ (*expectant)

BLUETOOTH FEATURES

- Bluetooth Specification v2.1+EDR compliant (all mandatory and optional features)
- UART to 4MBaud

APPLICATIONS

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

APPEARANCE

