



GM8612

802.11g/b + Bluetooth2.1 + EDR SiP Module

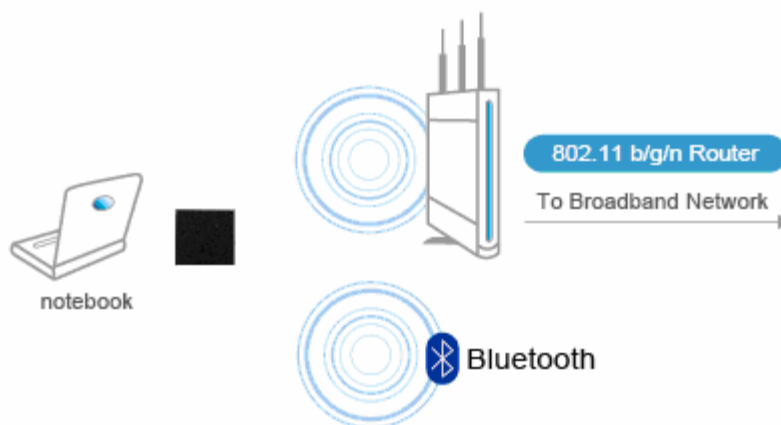
The highly integrated GM8612 module makes the possibilities of web browsing, VoIP, and Bluetooth headsets and other applications. With seamless roaming capabilities and advanced security such as Wi-Fi Protected Access 2, GM8612 can also interact with different vendors' 802.11b/g Access Points in the wireless LAN. The wireless module complies with IEEE 802.11 g/b standard and it can achieve up to a speed of 54Mbps.

The integrated module provides SDIO interface for WiFi and Bluetooth. This compact module is a total solution for a combination of WiFi+Bluetooth technologies. The module is specifically developed for handheld devices.

Main Features

1. Co-existence considered.
2. No external clock source needed.
3. Interface: WiFi via SDIO/G-SPI and Bluetooth via SDIO/UART.
4. Support single antenna of WLAN and Bluetooth on the platform.

- WiFi + Bluetooth 2.0 + EDR
- Dimension = 10.0 x 10.0 x 1.3 mm
- High-speed wireless connection to 54Mbps
- Co-existence considered
- RoHS compliant/Lead Free





General Specifications

Product Name GM8612	RF transmit power 802.11b: 14 dBm (Typ) 802.11g: 14 dBm (Typ) BT: Class 2, up to 2.0 dBm (Typ)
Dimensions 10.0 x10.0 x 1.3 mm	
Module connection 52 pin LGA	RF receive sensitivity 802.11b 11Mbps: -86dBm (Typ) 802.11g 54Mbps: -70 dBm (Typ) BT 2Mbps: -80 dBm (Typ)
HW interface WiFi: SDIO/G-SPI BT: SDIO/UART	
Standard 802.11b: DSSS 802.11g: OFDM BT: Bluetooth 2.0 EDR	Temperature Range 0~65°C (operating) -40~85°C (storage)
Data rate(Mbps) 802.11b: 11 (Max) 802.11g: 54 (Max) BT: 2.0(EDR) of 1, 2 and 3	Humidity Max. 95% Non-Condensing
Frequency range 802.11b/g: 2.4 ~ 2.484GHz BT: 2.4GHz	Driver Support Above Linux 2.6.24 and Windows Vista
Operating Voltage 3.3V±10%, 1.8V+/- 5%, 1.2V +/- 5%	Compliance RoHS compliant/Lead Free
	Regulatory FCC, TELEC and CE pre-scan Max. 95% Non-Condensing
	Security WEP (64/128 bits) WPA (TKIP + 802.1X) (*) 802.11i (AES, TKIP, 802.1X) (*)

(*): depends on OS