



# GC8601

## 802.11g/b + Bluetooth 2.1 + EDR SiP Module

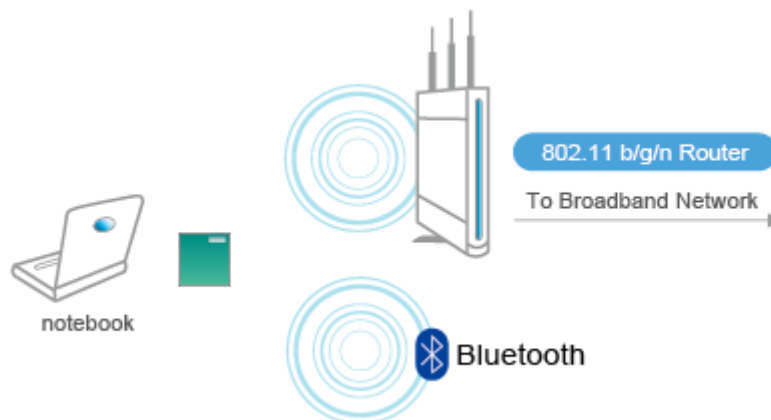
AMPAK likes to announce a low-cost and low-power consumption module which has all the WiFi and Bluetooth functionalities. The highly integrated module makes the possibilities of web browsing, VoIP, Bluetooth headsets and other applications. With seamless roaming capabilities and advanced security, GC8601 can also interact with different vendors' 802.11b/g Access Points in the wireless LAN. The wireless module complies with IEEE 802.11 b/g standard and it can achieve up to a speed of 54Mbps.

The integrated module provides SDIO interface for WiFi and UART or SDIO interface for Bluetooth. This compact module is a total solution for a combination of WiFi + Bluetooth technologies with excellent co-existence scheme. The single antenna and 2 antennas structure are all supported. The module is specifically developed for smart phones and portable devices.

### Main Features

1. Bluetooth 2.1 + EDR.
2. WiFi and Bluetooth co-existence considered with single antenna.
3. Support Fixed Mobile Convergence (UMA and IMS)
4. 3Wire/4Wire/Unity Bluetooth coexistence support.

- 802.11 g/b + Bluetooth 2.1 + EDR
- Dimension =12.5 x 12.5 x 1.45 mm
- Co-existence considered
- Single antenna needed
- No external clock source needed
- RoHS compliant/Lead Free





## General Specifications

<b>Product Name</b> GC8601	<b>RF receive sensitivity</b> 802.11b 11Mbps: -86 dBm (Typ)
<b>Dimensions</b> 12.5 x12.5 x 1.45 mm	802.11g 54Mbps: -72 dBm (Typ) BT 1Mbps (GFSK): -83 dBm (Typ)
<b>Module connection</b> 64 pin, LGA	BT 2Mbps ( $\pi/4$ -DQPSK): -83 dBm (Typ) BT 3Mbps (8DPSK): -76 dBm (Typ)
<b>HW interface</b> WiFi: SDIO BT: UART/SDIO	<b>Security</b> WEP (64/128 bits) WPA (TKIP + 802.1X) 802.11i (AES, TKIP, 802.1X)
<b>Standard</b> 802.11b: DSSS 802.11g: OFDM BT: Bluetooth 2.1 + EDR	<b>Temperature Range</b> 0~65°C (operating) -40~85°C (storage)
<b>Data rate(Mbps)</b> 802.11b: 11 (Max) 802.11g: 54 (Max) BT: 2.0(EDR) of 1, 2 and 3	<b>Humidity</b> Max. 95% Non-Condensing
<b>Frequency range</b> 802.11b/g: 2.4 ~ 2.484GHz BT: 2.4GHz	<b>Driver Support</b> Win Mobile 6.0 / Linux 2.6.x
<b>Operating Voltage</b> 3.3V±10%, 1.5V+/- 5%,	<b>Compliance</b> RoHS compliant/Lead Free
<b>RF transmit power</b> 802.11b: 13 dBm (Typ) 802.11g: 15 dBm (Typ) BT: Up to 2.0 dBm (Typ)	