

# GB8632

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



- **802.11 g/b/n + Bluetooth 2.1 + EDR**
- **Dimension =10.0 x 10.0 x 1.4 mm**
- **Co-existence considered**
- **Single antenna needed**
- **No external clock source needed**
- **RoHS compliant/Lead Free**
- **Shielding module**

Gemtek technology 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, GB8632 can also interact with different vendors' 802.11b/g/n Access Points in the wireless LAN. The wireless module complies with IEEE 802.11 b/g/n standard and it can achieve up to a speed of 72.2Mbps.

The integrated module provides SDIO/SPI interface for WiFi and UART 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 is supported. The module is specifically developed for smart phones and portable devices.

### Main Features

1. IEEE 802.11n (1x1).
2. Bluetooth 2.1 + EDR.
3. WiFi and Bluetooth co-existence considered with single antenna.
4. 3Wire/4Wire/Unity Bluetooth coexistence support.



# General Specifications

<b>Product Name</b> GB8632	<b>RF receive sensitivity</b> 802.11b 11Mbps: -87 dBm (Typ) 802.11g 54Mbps: -72 dBm (Typ) 802.11n 58.5Mbps: -69 dBm (Typ)
<b>Dimensions</b> 10.0 x10.0 x 1.4 mm	
<b>Module connection</b> 60 pin, LGA	<b>RF transmit power</b> 802.11n: 13 dBm (Typ) 802.11b/g: 15 dBm (Typ) BT: Up to 2.0 dBm (Typ)
<b>HW interface</b> WiFi: SDIO/SPI BT: UART	<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/n: OFDM BT: Bluetooth 2.1 + EDR	<b>Temperature Range</b> -10~65°C (operating) -40~85°C (storage)
<b>Data rate(Mbps)</b> 802.11b: 11 (Max) 802.11g: 54 (Max) 802.11n: 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>Compliance</b> RoHS compliant/Lead Free 802.11b/g: 15 dBm (Typ) BT: Up to 2.0 dBm (Typ)
<b>Operating Voltage</b> 3.3V±5%	