

# GB9619

## WiFi SiP Module

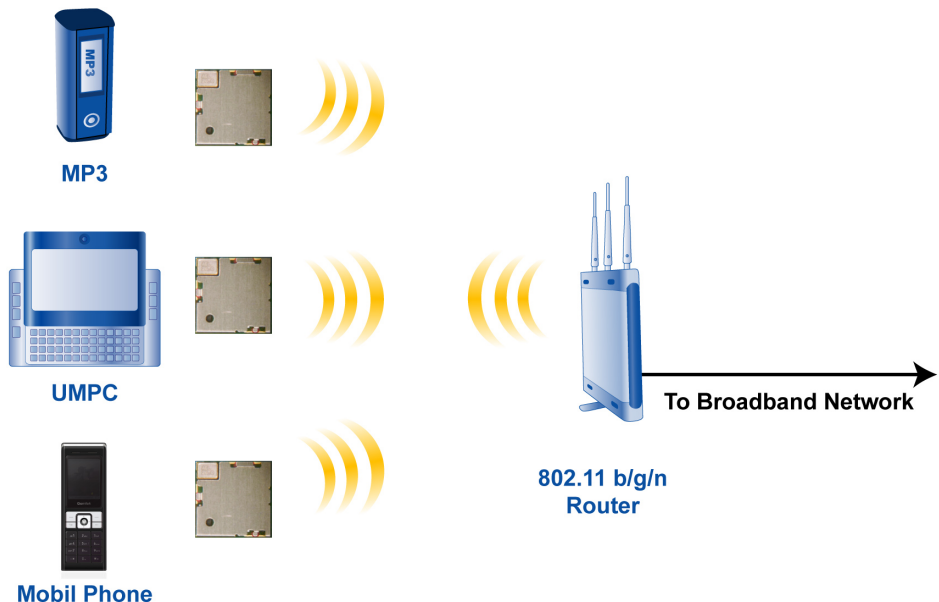
Gemtek Technology Co., Ltd. introduces a low-cost and low-power consumption module which combines WiFi functions. The highly integrated GB9619 module allows the usage of portable, embedded and handheld applications.

The wireless module complies with IEEE 802.11 b/g/n standard and it can achieve single stream in 802.11n, 54Mbps as specified in IEEE 802.11g, or 11Mbps for IEEE 802.11b to connect to the wireless LAN. The integrated module provides SDIO/SPI interface.

### Main Features

- Small Form Factor: 9.0 x 9.0 x 1.4 mm
- No external clock source needed
- SDIO (1bit/4bit) / SPI interface
- RoHS complaint / Lead free

- IEEE 802.11g/b/n
- SDIO(1bit and 4 bit)/SPI
- Dimension = 9.0 x 9.0 x 1.4 mm
- LGA package
- No external clock source needed



# General Specifications

<b>Product Name</b> GB9619	<b>RF transmit power</b> 802.11b/g - 15.0 dBm +/-1.5dBm 802.11n - 13.0 dBm +/-1.5dBm
<b>Dimensions</b> 9.0 x 9.0 x 1.4 mm	<b>RF receive sensitivity</b> 802.11n - MCS = 7 PER<10% @ -69 dBm, typical 802.11g - 54Mbps PER<10% @ -72 dBm typical 802.11b - 11Mbps PER<8% @ -87 dBm typical
<b>Host Interface</b> SDIO 4-bit / SPI	
<b>Package</b> 40 pin LGA	
<b>Operating Voltage</b> 3.3V +/- 5 %	
<b>Frequency Band</b> 2.400 GHz ~ 2.497 GHz (2.4 GHz ISM Band)	<b>Power consumption (RMS)</b> Tx : TBD Rx: TBD Standby: TBD Sleep: TBD
<b>Number of Channel</b> USA and Canada - 13 Most European countries - 13 Japan - 14	<b>Supplied Driver</b> Windows CE 5.0 / 6.0; Linux 2.6.X
<b>Spreading</b> 802.11b: DSSS 802.11g/n: OFDM	<b>Standards</b> IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
<b>Modulation</b> 802.11g/n - 64 QAM, 16 QAM, QPSK, BPSK 802.11b - CCK, DQPSK, DBPSK	<b>Temperature</b> -10 ~ 65°C (Operating); -40 ~ 85°C (Storage)
<b>Security</b> WEP (64/128 bits) WPA (TKIP + 802.1X) 802.11i (AES, TKIP, 802.1X)	<b>Humidity</b> Operating Humidity 10% to 95% Non-Condensing Storage Humidity 5% to 95% Non-Condensing