

Tiny BLE to WIFI & Ethernet interfaces Gateway

Product Description

GW06-04 designed with the industry's first single PCBA for Gateway solution creates for the Internet of Things (IoT). GW06-04 Integrated with boasting a 64-bit quad core processor running at 1.4GHz, dual-band 2.4GHz and 5GHz wireless LAN, Bluetooth BLE 4.2 and faster Ethernet interfaces to BLE4.1 networks . The dual-band wireless LAN comes with modular compliance certification that provides reliable wireless data communication with 3egreen smart meters to install simply power system Easily .



GW06-04



Feature :

- One Micro USB 5V/2.5A Power input
- Broadcom BCM2837B0, Cortex-A53 64-bit SoC @ 1.4GHz
- 1GB LPDDR2 SDRAM
- 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN
- Bluetooth 4.2, BLE
- 32GB Micro SD format for loading operating system and data storage
- Supports Station, Access Point, and Wi-Fi Direct modes.
- Modbus protocol supported
- Operating temperature, -10–60°C
- Storage temperature -10 – 70 °C
- Fast Scan BLE devices up to over 50 devices in short time
- Dimension : 90mm x 55mm x 35mm (L x W x H)
- **Bluetooth RF Performance :**
 - TX Power Up to [+5dBm@9.1mA](#)
 - RX Sensitivity –97 dBm
- **WIFI RF Performance :**
 - TX Power:17.0 dBm @1 DSSS
 - 17.2 dBm @11 CCK
 - 13.5 dBm @ 54 OFDM
 - RX Sensitivity: –94.7 dBm @ 1 DSS
 - – 87 dBm @11 CCK
 - –73 dBm @ 54 OFDM





Applications

For Internet-of-Things applications

- Cloud Connectivity – Internet BLE to WIFI/Ethernet/RS485 Gateway
- Home Automation – Industrial Control
- Home Appliances – Smart Plug and Metering
- Security Systems – IP Network Sensor Nodes
- Smart Energy





Electrical Characteristics

Absolute Maximum Ratings

Parameters	Min	Max	Unit
Storage temperature	-40	+120	°C
Supply voltage VDD input to the ground	4V	5.5	V

BLE RF Characteristics

Conditions: TA = 25°C

Parameters	Condition	Min	Typ	Max	Unit
RF frequency	BLE 2.4G	2045	2400	2480	Mhz
RF frequency spacing	At antenna input, 250 Kbps		2		Mhz
RF sensitivity (high gain)	At antenna input, 250 Kbps		-93		dBm
Maximum RF input		-10			dBm
Adjacent channel rejection	@+/-1 MHz, 250 Kbps		-5		dBm
Alternate channel rejection	@+/-2 MHz, 250 Kbps		50		dBm
RSSI range	High gain mode, 250 Kbps Standard mode	-90 -87		-45 -35	dB
Maximum RF output power	At 5 dBm output power setting		5		dBm
RF output power control range		-23		5	dBm
TX gain control resolution		1			dB
TX EVM			15		%

Recommended Operating Conditions

Test conditions: Power = 5V

Parameters	Min	Typ	Max	Unit
Ambient Operating Temperature	-20	+40	+70	°C
Supply Voltage for Power Input	3.3	5	5.5	V



Safety instructions

- This product should only be connected to an external power supply rated at 5V/2.5 A DC. Any external power supply used with it shall comply with relevant regulations and standards applicable in the country of intended use.
- This product should be operated in a well-ventilated environment and Whilst in use, this product should be placed on a stable, flat, non-conductive surface and should not be contacted by conductive items.
- The cables and connectors of all peripherals used with this product must have adequate insulation so that relevant safety requirements are met.
- To avoid malfunction of or damage to this product, please observe the following: Do not expose to water or moisture, or place on a conductive surface whilst in operation.
- Do not expose to heat from any source; GW06-04 is designed for reliable operation at normal ambient temperatures.





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12F-1, No. 872, Zhongzheng Rd., Zhonghe Dist., New
Taipei City 23351, Taiwan, R.O.C.

<http://www.udmgroup.com>

TEL : +886-2-66202388 FAX : +886-2-66202720

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