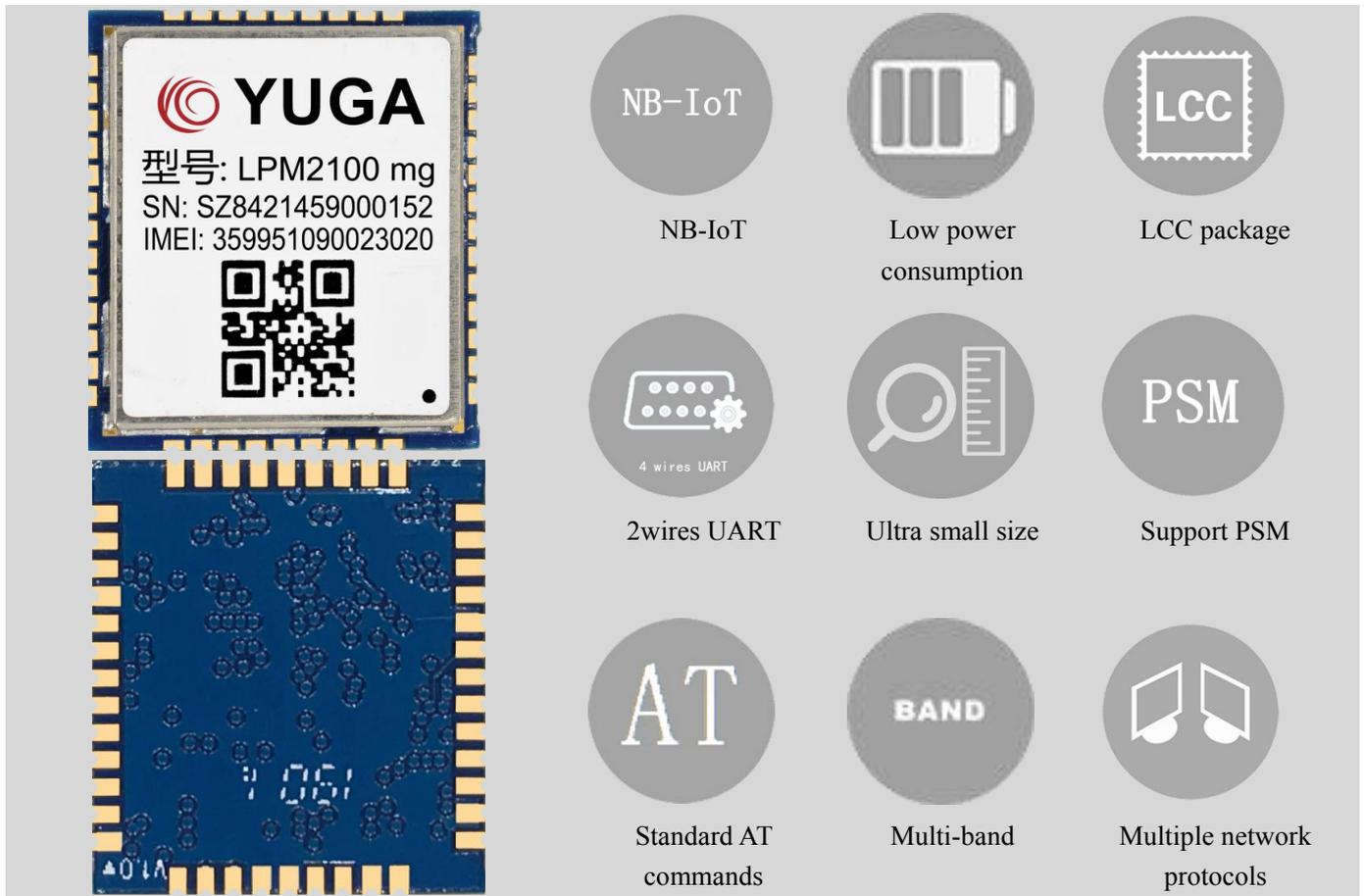


# LPM2100\_mg

## Multi-Band NB-IoT Module



### Module introduction:

LPM2100 mg is a multi-band NB-IoT wireless communication module that supports ultra-low power consumption and supports multi-mode IoT. It supports bands B1, B3, B5, B8, B20 and B28. It can be divided into mc (B5/B8/B20/B28) standard voltage module, mg (B1/B3/B5/B8/B20/B28) standard voltage module and mg\_u (B1/B3/B5/B8/B20/B28) low-voltage module according to the user's flexible configuration. Providing a wealth of external interfaces and protocol stacks, allowing customers to quickly and accurately design and upgrade products, providing great convenience for customers' applications. The LPM2100 mg module is designed with energy-saving technology for ultra-low power consumption in sleep mode and less than 5uA in deep sleep.

### Application scenario:

- Car networking
- Smart home
- Smart city (smart parking, water/gas meter, street light, smoke alarm, trash can, etc.)
- Consumption and medical (wearing devices, VIP tracking, life support, remote clinical tracking, etc.)
- Industrial and agricultural intelligent monitoring (machine alarm, gas detection, irrigation, soil pH, etc.)
- Logistics support (industrial assets, container tracking, location and status updates, etc.)
- Other wireless terminals

# LPM2100\_mg

## Multi-Band NB-IoT Module

Main characteristics			Electrical characteristics	
Package: LCC			Sensitivity: -128dBm	
Band	LPM2100 mc	B5/B8/B20/B28	Maximum output power: 23dBm ± 2dB	
	LPM2100 mg	B1/B3B5/B8/B20/B28	Current consumption (numerical value)	≤ 1mA @Idle mode
	LPM2100 mg_u	B1/B3B5/B8/B20/B28		≤ 5uA @Power saving mode
Voltage	LPM2100 mc	3.1-4.2V typical 3.7V	LTE Cat NB1 Network connection status:	
	LPM2100mg	3.1-4.2V typical 3.7V	232mA@RF emission status,23dBm	
	LPM2100 mg_u	2.45-4.2V typical 3.6V	83mA@RF emission status,12dBm	
Weight: about 1.5g			60mA@RF emission status,0dBm	
Size: 15.8×17.7×2.2mm			<b>Interface</b>	
Low power consumption	Idle mode ≤ 1mA		44 SMT pads LCC Package	
	PSM mode ≤ 5uA			
Range of working temperature: -40 ~+85 °C			SIM card interface (3V/1.8V supports hot swap) x1	
<b>Software features</b>			Reset interface x1	PSM_EINT interface x1
			Serial interface x3	ADC interface x1
Non-IP			SPI interface x1	NB-IoT antenna interface x1
Built-in TCP/UDP protocol			I2C interface x1	Network indicator interface x1
FTP/HTTP/HTTPS			Multiple GPIO interfaces (configurable)	
CoAP	BLE4.2		Support RTC and other control interfaces	
LwM2M	PPP		<b>Certification</b>	
SSL	DTLS			
IPv4/IPV6	MQTT		CCC SRRC	
<b>Data transfer rate</b>			<b>Compatibility</b>	
Single-tone: 25.5kbps(DL),16.7kbps(UP)			3GPP TS 27.007 V14.3.0 (2017-03)	
Multi-tone: 25.5kbps(DL),62.5kbps(UP)			3GPP Rel-13 and enhanced AT commands	