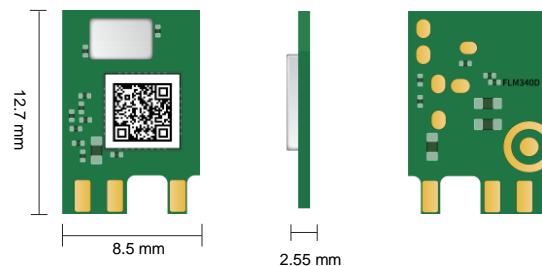


# Quectel FLM340D

## Wi-Fi 4 & BLE 5.2 Module Compact DIP Package



FLM340D is a cutting-edge MCU Wi-Fi and Bluetooth module launched by Quectel. It boasts a high-performance processor with a frequency of up to 120 MHz and supports IEEE 802.11b/g/n protocol and BLE 5.2. The module features built-in 256 KB RAM, 2 MB or 4 MB flash, ensuring efficient performance. In addition, it complies with WPA-PSK, WPA2-PSK and WPA3-SAE security standards.

FLM340D is in a DIP form factor with an ultra-compact package size of 12.7 mm × 8.5 mm × 2.55 mm, which optimizes the size and cost for end-products and is compatible with diverse designs.

The module supports ADC and PWM functions in QuecOpen® solution, and many low power consumption modes and keep-alive mechanism, which provide flexibility and versatility for a range of applications, especially in smart homes, industrial IoT, consumer electronics and other application scenarios to meet various product needs. It is especially suitable for small-sized, high-temperature IoT devices, such as filament lamps, candle bulb lamps, small spotlights.

The module supports the QuecOpen® solution and standard AT commands, has a compact protocol stack, which can realize efficient product development for customers.



## Key Features

- ✓ Wi-Fi 4 module, single band (2.4 GHz) Wi-Fi, 1 × 1 antenna
- ✓ BLE 5.2 and Wi-Fi pairing via Bluetooth
- ✓ Large memory, 256 KB RAM, 2 MB or 4 MB flash
- ✓ Wide operating temperature: -40 °C to +105 °C
- ✓ High stability, high reliability and full compatibility



IEEE 802.11b/g/n



BLE 5.2



Large Memory



Compact Size



Operating Temperature  
Range: -40 °C to +105 °C

# Quectel FLM340D

Wi-Fi 4 & BLE 5.2	FLM340D		
WLAN Protocol	IEEE 802.11b/g/n		
Wi-Fi Frequency Band	2.4 GHz		
Wi-Fi Modulation Mode	BPSK/ QPSK/ CCK/ 16QAM/ 64QAM		
Wi-Fi Operating Mode	AP/ STA		
Bluetooth Protocol	BLE 5.2		
Encryption Mode	WPA-PSK/ WPA2-PSK/ WPA3-SAE		
Internet Protocol	IPv4		
Kernel	ARM968 (up to 120 MHz)		
RAM	256 KB		
Flash	2 MB/ 4 MB <sup>①</sup>		
Dimension	12.7 mm × 8.5 mm × 2.55 mm		
Weight	Approx. 0.32 g		
Temperature Range			
Operating Temperature Range	-40 °C to +105 °C		
Storage Temperature Range	-45 °C to +115 °C		
Certification			
Regulatory	Europe: CE America: FCC Canada: IC China: SRRC* Australia/New Zealand: RCM		
Interfaces			
Antenna Interface	× 1 (Pin antenna interface)		
Other Interfaces <sup>②</sup>	GPIO/ ADC/ PWM		
Electrical Features			
Power Supply Voltage	3.0–3.6 V, Typ. 3.3 V		
RF Performance			
	Receiver Sensitivity	Transmit Power	
2.4 GHz	802.11b/1 Mbps	-96 dBm ±2 dB	16 dBm ±2 dB
	802.11b/11 Mbps	-87 dBm ±2 dB	16 dBm ±2 dB
	802.11g/6 Mbps	-90 dBm ±2 dB	15 dBm ±2 dB
	802.11g/54 Mbps	-73.5 dBm ±2 dB	14 dBm ±2 dB
	802.11n/HT20 MCS 0	-89 dBm ±2 dB	14 dBm ±2 dB
	802.11n/HT20 MCS 7	-71 dBm ±2 dB	13 dBm ±2 dB
BLE	1 Mbps	-95 dBm ±2 dB	6 dBm ±2 dB

Ordering Code	Flash	Operating Temperature Range	Antenna	Development Board (Only for Debugging)
FLM340DAAMD-OL-04	4 MB	-40 °C to +105 °C	Pin antenna interface	FLM340DAATB-PL-04
FLM340DAAMD-OL-02	2 MB	-40 °C to +105 °C	Pin antenna interface	FLM340DAATB-PL-04

## NOTE:

- ①: Contact Quectel sales if you need a flash of other specifications.
- ②: See hardware design manual for details of the module interfaces.
- \*: In progress.