

Quectel FC10

LCC WIFI Module



Ultra compact size



SDIO Interface



IEEE802.11 b/g/n
Standard



LCC Package



Extended Temperature
range -40°C to +85°C



RoHS Compliant

Key Benefits

- ☞ Ultra compact WIFI module
- ☞ Easier soldering and testing process with LCC package
- ☞ Stable and reliable SDIO communication I/O
- ☞ Support IEEE802.11b/g/n standard
- ☞ Fast time-to-market: simple design minimizes design-in time and development efforts

WIFI Module



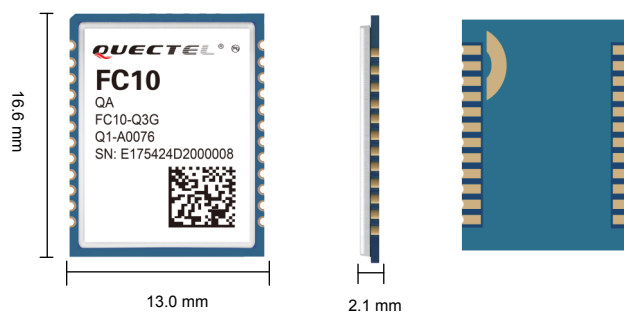
Quectel FC10 is an innovative embedded WIFI wireless solution providing high performance connectivity capabilities with low cost. Designed with ultra-compact 16.6×13.0×2.1mm form factor, FC10 module can effectively optimize size and cost for end-products, which totally meets the customer requirements on size sensitive applications to the maximum extent.

FC10 adopts surface mounted technology (SMT), making it the ideal solution for durable and rugged designs. Its low profile and small size of LCC package ensure FC10 easily embedded into the low-volume applications and provide the reliable connectivity with the applications. Meanwhile, this advanced package allows fully large-scale automated manufacturing which has the strict requirements for cost and efficiency. Additionally, it can also be manually soldered in small unit manufacturing.

Combined with Quectel EC20 LTE module, its compact form factor, low power consumption, extended temperature range and stable SDIO I/O make FC10 the best choice for applications such as automotive, security, industrial PDA, MIFI, medical and other M2M applications.

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General Features

Frequency Range	2.4~2.4835GHz
WLAN Standard	802.11b/g/n
Channel Number	14
Modulation Mode	DBPSK, DQPSK, BPSK, QPSK, 16QAM, 64QAM
Encryption Mode	WEP, TKIP, AES, WPA-PSK, WPA2-PSK
AP (Max Access Point)	10
Supply Voltage Range	3.14~3.46V, 3.3V Typ.
Operation Temperature	-40 °C ~ +85 °C
Dimension	16.6 × 13.0 × 2.1mm
Weight	About 0.63g

Data Transmission

802.11b	Max 11Mbps
802.11g	Max 54Mbps
802.11n	Max 65Mbps

Electrical Characteristics

Receiving Sensitivity	-93dBm @802.11b/1Mbps -85dBm @802.11b/11Mbps -89dBm @802.11g/6Mbps -72dBm @802.11g/54Mbps -90dBm @802.11n/HT20 MCS0 -69dBm @802.11n/HT20 MCS7
Transmitting Power	13 dBm @802.11b/11Mbps 12.5dBm @802.11g/6Mbps 9.5dBm @802.11g/54Mbps 10dBm @802.11n/HT20 MCS0 6 dBm @802.11n/HT20 MCS7

I/O

SDIO	1 (SDIO V2.0)
Reset	1
Antenna	1 (WIFI antenna)