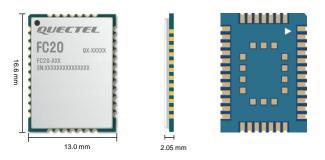


Quectel FC20 Series

Wi-Fi&Bluetooth Module Ultra-compact LCC Package



Quectel FC20 series is a cost-effective Wi-Fi&Bluetooth module featuring high performance. Designed in ultra-compact 16.6 mm \times 13.0 mm \times 2.05 mm profile, it optimizes the size and cost for end-products, which fully meets the demands of size-sensitive applications.

FC20 series contains two variants (FC20 and FC20-N) which can be adapted to different application scenarios. Surface-mount technology makes FC20 series be an ideal solution for durable and rugged designs. The low profile and small size of LCC package enable FC20 series to be easily embedded into size-constrained applications and provide reliable connectivity with these applications. The advanced package allows for large-scale automated manufacturing which has strict requirements on cost and efficiency.

Combining advantages such as compact form factor, low power consumption, extended temperature range and stable SDIO interface, FC20 series is typically used in combination with Quectel LTE Standard EC21 series, EC25 series, EC20-CE and EG25-G modules and other application processors (IMX6, IMX8, etc.) to serve a wide range of M2M applications, such as automotive, smart safety, industrial PDA, MiFi and health care.



- Ultra-compact Wi-Fi&Bluetooth module
- Support BLE (Bluetooth 5.0)
- Support IEEE 802.11 a/b/g/n/ac standards
- Easier soldering and testing process with LCC package
- Stable and reliable SDIO communication interface
- Fast time-to-market: simple design minimizes design-in time and development efforts



Size



LCC Package



IEEE 802.11 a/b/g/n/ac Standards



SDIO Interface





Bluetooth 5.0

Version: 1.7 | Status: Released

Quectel FC20 Series

Regin Global Global Function WiFi 2.4 GHz + 5 GHz, Bluetooth 5.0 WiFi 2.4 GHz WLAN IFEE 80.11.8 //J/n/sc IFEE 80.11.8 //J Bluetooth Bluetooth 5.0 SPSC, 075K, CK, 15.0AM, 640AM, 2560AM SPSC, 075K, CK, 15.0AM, 640AM, 2560AM Modulation Mode BPSC, 075K, CK, 15.0AM, 640AM, 2560AM SPSC, 075K, CK, 15.0AM, 640AM, 2560AM Operating Temperature Bange -0 Toto +85 °C 02.11a S4 Mbp - 802.11a S4 MbpS S4 MbpS 802.11a S4 MbpS S4 MbpS 802.11a S4 MbpS - 802.11a S4 MbpS - 802.11a S4 MbpS - 802.11a S4 MbpS - 801.30 X1 - 801.30 X1 - 802.11a S4 MbpS - 801.30 X1 - 801.30 X1 - 801.30 X1 - 802.11a X1 - 802.11a <	Wi-Fi&Bluetooth	FC20	FC20-N
WANIEEE 802.11 a/b/g/n/acIEEE 802.11 b/g/nBluetooth 5.0-Buetooth 5.0PSK, QPSK, CCK, 18QAM, 64QAM, 25GQAMPSK, QPSK, CCK, 18QAM, 64QAM, 25GQAMVorture Bange-Operating Temperature Bange-0''Cto As 5''CBo2.11ac54 Mbps-0''Cto As 5''CB02.11a54 Mbps-0''Cto As 5''CB02.11a11 Mbps11 MbpsB02.11a54 Mbps54 MbpsB02.11a130 Mbps150 MbpsB02.11a433 Mbps-B02.11a43 Mbps-B02.11a43 Mbps-B02.11a43 Mbps-B02.11a43 Mbps-B02.11a43 Mbps-B104tooth AMPB114tooth AMPB124tooth AMP <td< td=""><td>Region</td><td>Global</td><td>Global</td></td<>	Region	Global	Global
IdentifiedBluetooth S.D InformationModulation ModeBPSK, QPSK, CCK, 16QAM, 64QAM, 25GQAMBPSK, QPSK, CCK, 16QAM, 64QAMTemperature Barge-40°C to +85°C- 40°C to +85°COperating Temperature Range-40°C to +85°C- 40°C to +85°CSolar Brite (Max)54 Mbps- 1 Mbps802.11a54 Mbps- 1 Mbps802.11b11 Mbps1 Mbps802.11a54 Mbps- 50 Mbps802.11a30 Mbps150 Mbps802.11a433 Mbps- 2 Mbps802.11a24 Mbps- 2 Mbps802.11a10 Mbps- 2 Mbps802.11a21 Mbps- 2 Mbps802.11a11 Mbps- 2 Mbps802.11a12 Mbps- 2 Mbps802.11a12 Mbps- 2 Mbps802.11a21 Mbps- 2 Mbps802.11a12 Mbps	Function	Wi-Fi 2.4 GHz + 5 GHz; Bluetooth 5.0	Wi-Fi 2.4 GHz
Modulation Mode BPSK, QPSK, CCK, 16QAM, 64QAM, 25SQAM BPSK, QPSK, CCK, 16QAM, 64QAM, 64QAM, 25SQAM Temperature Range -40°C to +85°C -40°C to +85°C Data -40°C to +85°C -40°C to +85°C Se2.11a 54 Mbps 11 Mbps S62.11a 11 Mbps 11 Mbps S62.11a 54 Mbps 54 Mbps S62.11a 54 Mbps 54 Mbps S62.11a 54 Mbps 54 Mbps S62.11a 54 Mbps 56 Mbps S62.11a 54 Mbps - S610.30 54 Mbps -	WLAN	IEEE 802.11 a/b/g/n/ac	IEEE 802.11 b/g/n
Temperature Range-40 °C to +85 °C-40 °C to +85 °COperating Temperature Range-40 °C to +85 °C-40 °C to +85 °CData Rate (Max.)54 Mbps-802.11n11 Mbps11 Mbps802.11g54 Mbps54 Mbps802.11g150 Mbps150 Mbps802.11a150 Mbps150 Mbps802.11a433 Mbps-802.11a433 Mbps-802.11a150 Mbps10 Mbps802.11a433 Mbps-802.11a150 Mbps-802.11a433 Mbps-802.11a10 Mbps-802.11a10 Mbps-80.130×1-80.130×1-80.130×1-80.140×1-80.141×1-80.150×1-80.150×1-80.161×1-80.171×1-80.171×1-80.181×1-80.191×1-80.191×1-80.191×1-80.191×1-80.191×1-80.191×1-80.191×1-80.191×1-80.191×1-80.191×1-80.191×1-80.192×1-80.193×1-80.194×1-80.194 <t< td=""><td>Bluetooth</td><td>Bluetooth 5.0</td><td>-</td></t<>	Bluetooth	Bluetooth 5.0	-
Operating Temperature Range-40 °C to +85 °C-40 °C to +85 °CData Rate (Max.)-802.11a54 Mbps-802.11b11 Mbps11 Mbps802.11c10 Mbps11 Mbps802.11c10 Mbps54 Mbps802.11c10 Mbps10 Mbps802.11c10 Mbps-802.11c13 Mbps-802.11c14 Mbps-802.11c13 Mbps-802.11c14 Mbps802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps-802.11c14 Mbps	Modulation Mode	BPSK, QPSK, CCK, 16QAM, 64QAM, 256QAM	BPSK, QPSK, CCK, 16QAM, 64QAM
Data Rate (Max.)Data Rate (Max.)802.11a54 Mbps-802.11b11 Mbps11 Mbps802.11g54 Mbps54 Mbps802.11g50 Mbps150 Mbps802.11a150 Mbps150 Mbps802.11ac433 Mbps-802.11ac434 Mbps-802.11ac434 Mbps-802.11ac434 Mbps-802.11ac434 Mbps-802.11ac434 Mbps-802.11ac41 Mbps-802.11ac×1-802.11ac×1-802.11ac×1-802.11ac×1-802.11ac×1-802.11ac×1-802.11ac×1-802.11ac×1-802.11ac×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-802.11bc×1-803	Temperature Range		
862.11a54 Mbps-802.11b11 Mbps11 Mbps802.11g54 Mbps54 Mbps802.11g150 Mbps150 Mbps802.11a150 Mbps150 Mbps802.11ac433 Mbps-802.11ac434 Mbps-802.11ac44 Mbps-802.11ac44 Mbps-802.11ac14 Mbps-802.11ac14 Mbps-802.11b×1-802.11c×1-802.11ac×1-802.11b×1-802.11	Operating Temperature Range	-40 °C to +85 °C	-40 °C to +85 °C
802.11b11 Mbps11 Mbps802.11q54 Mbps54 Mbps802.11a150 Mbps150 Mbps802.11a433 Mbps-801.11a433 Mbps-801.11a24 Mbps-801.01 AMP24 Mbps-901.01 AMP1-801.01 AMP<	Data Rate (Max.)		
82.11g54 Mbps54 Mbps802.11g150 Mbps150 Mbps802.11a433 Mbps-802.11a433 Mbps-802.11a24 Mbps-802.11a24 Mbps-8010.3.0×1×181_UART×1-9CM×1	802.11a	54 Mbps	-
802.11a150 Mbps150 Mbps802.11ac433 Mbps.802.11ac434 Mbps.81uetooth AMP24 Mbps.81uetooth AMP1.8500 3.0×1 a.8T_UART×1 a.8T_UART×1 a.800 S.0×1 a.800 S.0×1 a.800 S.0×1 a.800 S.0×1 a.800 S.0×1 a.800 S.0800 S.0800 S.0900 S.0 S.0900 S.0 S.0 M B.1 S.0 M.0 M.0 M.0 M.0 M.0 M.0 M.0 M.0 M.0 M	802.11b	11 Mbps	11 Mbps
802.11ac433 Mbps	802.11g	54 Mbps	54 Mbps
Bluetooth AMP24 MbpsInterfacesSDI0 3.0×1BT_UART×1PCM×1VFF/Bluetooth Antenna×1×1×1Electrical FoaturesPower Supply Voltage3.14-3.46 V, Typ. 3.3 VJ/O Power Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 VPower Consumption (Typ.)Ide (Wi-Fi is enabled without any device connected): 	802.11n	150 Mbps	150 Mbps
Interfaces SDI0 3.0 ×1 ×1 BT_UART ×1 - PCM ×1 - Wi-Fi/Bluetooth Antenna ×1 ×1 Electrical Features - - Power Supply Voltage 3.14-3.46 V, Typ. 3.3 V 3.14-3.46 V, Typ. 3.3 V I/O Power Supply Voltage 3.14-3.46 V, Typ. 1.8/3.3 V 1.71-3.46 V, Typ. 1.8/3.3 V I/O Power Supply Voltage 1.71-3.46 V, Typ. 1.8/3.3 V 1.71-3.46 V, Typ. 1.8/3.3 V I/O Power Supply Voltage 1.71-3.46 V, Typ. 1.8/3.3 V 0FF State (Wi-Fi is disabled): • 2 µ.A @ 3.3 V WLAN power supply • 554 µA @ 1.8 V I/O pins power supply 0FF State (Wi-Fi is disabled): • 2 µ.A @ 3.3 V WLAN power supply • 554 µA @ 1.8 V I/O pins power supply Power Consumption (Typ.) Ide (Wi-Fi is enabel without any device connected): • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply	802.11ac	433 Mbps	-
SDI0 3.0×1×1BT_UART×1-BT_UART×1-PCM×1×1Wi-Fi/Bluetooth Antenna×1×1Etectrical Features-Power Supply Voltage3.14-3.46 V, Typ. 3.3 V3.14-3.46 V, Typ. 3.3 VI/O Power Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 V1.71-3.46 V, Typ. 1.8/3.3 VPower Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 V1.71-3.46 V, Typ. 1.8/3.3 VPower Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 V1.71-3.46 V, Typ. 1.8/3.3 VI/O Power Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 V1.71-3.46 V, Typ. 1.8/3.3 VPower Consumption (Typ.)OFF State (Wi-Fi is disabled): • 2 µ.A @ 3.3 V WLAN power supply • 554 µ.A @ 1.8 V I/O pins power supply • 554 µ.A @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 0.	Bluetooth AMP	24 Mbps	-
BT_UART×1-BT_UART×1-PCM×1-Wi-Fi/Bluetooth Antenna×1×1Etertrical Features-Power Supply Voltage3.14-3.46 V, Typ. 3.3 V3.14-3.46 V, Typ. 3.3 VI/O Power Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 V1.71-3.46 V, Typ. 1.8/3.3 VPower Consumption (Typ.)OFF State (Wi-Fi is disabled): • 2 µA @ 3.3 V WLAN power supply • 554 µA @ 1.8 V I/O pins power supply • 554 µA @ 1.8 V I/O pins power supply • 65 mA @ 1.8 V I/O pins power supplyProtect Struct Power Struct Power Struct Power Stru	Interfaces		
PCM×1-PCM×1-Wi-Fi/Bluetooth Antenna×1Electrical Features-Power Supply Voltage3.14-3.46 V, Typ. 3.3 V3.14-3.46 V, Typ. 3.3 VPower Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 V1.71-3.46 V, Typ. 1.8/3.3 VPower Supply Voltage1.71-3.46 V, Typ. 1.8/3.3 V1.71-3.46 V, Typ. 1.8/3.3 VPower Consumption (Typ.)OFF State (Wi-Fi is disabled): • 5.54 µA @ 1.8 V I/O pins power supply • 5.54 µA @ 1.8 V I/O pins power supply • 5.54 µA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supplyPower Consumption ModeWPA3WPA3AP (Max. Access Points)1616Operating ModeApprox. 0.81 gApprox. 0.81 gVeightApprox. 0.81 gEurope: CE Ganada: IC Canada: IC South Korea: KC Brazii: Anatel Japan: JATE/ TELEC Australia/New Zealand: RCMEurope: CE America: FCC Canada: IC Canada: IC America: FCC Canada: IC Australia/New Zealand: RCMEurope: CE America: FCC Canada: IC America: FCC Canada: IC America: FCC Canada: IC Australia/New Zealand: RCMEurope: CE America: FCC Canada: IC America: FCC Canada: IC America: FCC Canada: IC America: FCC Canada: IC America: FCC Canada: IC Am	SDIO 3.0	×1	× 1
Wi-Fi/Bluetooth Antenna×1×1Electrical FeaturesPower Supply Voltage3.143.46 V, Typ. 3.3 V3.143.46 V, Typ. 3.3 VI/O Power Supply Voltage1.713.46 V, Typ. 1.8/3.3 V1.713.46 V, Typ. 1.8/3.3 VI/O Power Supply Voltage.713.46 V, Typ. 1.8/3.3 V.713.46 V, Typ. 1.8/3.3 VPower Consumption (Typ.)OFF State (Wi-Fi is disabled): 2 µ.A @ 3.3 V WLAN power supply • 554 µ.A @ 1.8 V I/O pins power supply • 554 µ.A @ 1.8 V I/O pins power supply • 554 µ.A @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I	BT_UART	× 1	-
Electrical Features Power Supply Voltage 3.14–3.46 V, Typ. 3.3 V 3.14–3.46 V, Typ. 3.3 V I/O Power Supply Voltage 1.71–3.46 V, Typ. 1.8/3.3 V 1.71–3.46 V, Typ. 1.8/3.3 V Power Supply Voltage 1.71–3.46 V, Typ. 1.8/3.3 V 1.71–3.46 V, Typ. 1.8/3.3 V Power Supply Voltage 1.71–3.46 V, Typ. 1.8/3.3 V 0FF state (Wi-Fi is disabled): 2 µA @ 3.3 V WLAN power supply 555 µA @ 1.8 V I/O pins power supply 555 µA @ 1.8 V I/O pins power supply 65 mA @ 3.3 V WLAN power supply 65 mA @ 3.3 V WLAN power supply 65 mA @ 3.3 V WLAN power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply 65 mA @ 1.8 V I/O pins power supply	PCM	×1	
Power Supply Voltage3.14–3.46 V, Typ. 3.3 V3.14–3.46 V, Typ. 3.3 VI/O Power Supply Voltage1.71–3.46 V, Typ. 1.8/3.3 V1.71–3.46 V, Typ. 1.8/3.3 VI/O Power Supply Voltage1.71–3.46 V, Typ. 1.8/3.3 V1.71–3.46 V, Typ. 1.8/3.3 VI/O Power Consumption (Typ.)OFF State (Wi-Fi is disabled): • 554 µA @ 1.8 V I/O pins power supply • 554 µA @ 1.8 V I/O pins power supply • 554 µA @ 1.8 V I/O pins power supply • 65 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply	Wi-Fi/Bluetooth Antenna	×1	×1
I/O Power Supply Voltage1.71–3.46 V, Typ. 1.8/3.3 V1.71–3.46 V, Typ. 1.8/3.3 VI/O Power Consumption (Typ.)OFF State (Wi-Fi is disabled): • 2 μA @ 3.3 V WLAN power supply • 554 μA @ 1.8 V I/O pins power supply • 554 μA @ 1.8 V I/O pins power supply • 554 μA @ 1.8 V I/O pins power supply • 554 μA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply 	Electrical Features		
Power Consumption (Typ.)OFF State (Wi-Fi is disabled): 	Power Supply Voltage	3.14–3.46 V, Typ. 3.3 V	3.14–3.46 V, Typ. 3.3 V
Power Consumption (Typ.)2 µA @ 3.3 V WLAN power supply 554 µA @ 1.8 V I/O pins power supply 554 µA @ 1.8 V I/O pins power supply 6554 µA @ 1.8 V I/O pins power supply 66 mA @ 3.3 V WLAN power supply 66 mA @ 3.3 V WLAN power supply 6.5 mA @ 1.8 V I/O pins power supply 6.5	I/O Power Supply Voltage	1.71–3.46 V, Typ. 1.8/3.3 V	1.71–3.46 V, Typ. 1.8/3.3 V
connected): • 66 mA @ 3.3 V WLAN power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supply • 6.5 mA @ 1.8 V I/O pins power supplyImage: Simple Si	Power Consumption (Typ.)	 2 μA @ 3.3 V WLAN power supply 554 μA @ 1.8 V I/O pins power supply 	 2 μA @ 3.3 V WLAN power supply
AP (Max. Access Points)1616Operating ModeAP/STAAP/STADimension16.6 mm × 13.0 mm × 2.05 mm16.6 mm × 13.0 mm × 2.05 mmWeightApprox. 0.81 gApprox. 0.81 gCertificationsEurope: CE America: FCC Canada: IC China: SRRC South Korea: KC Brazil: Anatel Japan: JATE/TELEC Australia/New Zealand: RCMEurope: CE Brazil: Anatel Japan: TELEC		connected): 66 mA @ 3.3 V WLAN power supply	 66 mA @ 3.3 V WLAN power supply
Operating ModeAP/STAAP/STADimension16.6 mm × 13.0 mm × 2.05 mm16.6 mm × 13.0 mm × 2.05 mmWeightApprox. 0.81 gApprox. 0.81 gCertificationsEurope: CE America: FCC Canada: IC China: SRRC 	Encryption Mode	WPA3	WPA3
Dimension16.6 mm × 13.0 mm × 2.05 mm16.6 mm × 13.0 mm × 2.05 mmWeightApprox. 0.81 gApprox. 0.81 gCertificationsEurope: CE America: FCC Canada: IC China: SRRC South Korea: KC Brazil: Anatel Japan: JATE/ TELEC Australia/New Zealand: RCMEurope: CE Europe: CE Canada: IC Brazil: Anatel Japan: TELEC	AP (Max. Access Points)	16	16
Weight Approx. 0.81 g Approx. 0.81 g Certifications Europe: CE America: FCC Europe: CE Regulatory Europe: CE America: FCC Europe: CE South Korea: KC Brazil: Anatel Brazil: Anatel Japan: JATE/ TELEC Japan: JATE/ TELEC Japan: RCM CM CM	Operating Mode	AP/STA	AP/STA
Certifications Europe: CE America: FCC Europe: CE Canada: IC America: FCC China: SRRC Canada: IC South Korea: KC Brazil: Anatel Brazil: Anatel Japan: JATE/ TELEC Japan: JATE/ TELEC Australia/New Zealand: RCM	Dimension	16.6 mm × 13.0 mm × 2.05 mm	16.6 mm × 13.0 mm × 2.05 mm
Europe: CE America: FCC Europe: CE Canada: IC America: FCC China: SRRC Canada: IC South Korea: KC Brazil: Anatel Brazil: Anatel Japan: JATE/ TELEC Australia/New Zealand: RCM FCL	Weight	Approx. 0.81 g	Approx. 0.81 g
America: FCCEurope: CECanada: ICAmerica: FCCChina: SRCCCanada: ICSouth Korea: KCGanada: ICBrazil: AnatelBrazil: AnatelJapan: JATE/ TELECJapan: TELECAustralia/New Zealand: RCMFeasiline Comments	Certifications		
Others RoHS RoHS	Regulatory	America: FCC Canada: IC China: SRRC South Korea: KC Brazil: Anatel Japan: JATE/ TELEC	America: FCC Canada: IC Brazil: Anatel
	Others	RoHS	RoHS



Quectel FC20 Series

Wi-Fi&Bluetooth		FC20	FC20-N
RF Performa	ance		
		Receiving Sensitivity (Typ.)	Receiving Sensitivity (Typ.)
2.4 GHz	802.11b/1 Mbps	-92 dBm	-92 dBm
	802.11b/11 Mbps	-85 dBm	-85 dBm
	802.11g/6 Mbps	-88 dBm	-88 dBm
	802.11g/54 Mbps	-72 dBm	-72 dBm
	802.11n/HT20 MCS 0	-88.5 dBm	-88.5 dBm
	802.11n/HT20 MCS 7	-70 dBm	-70 dBm
	802.11n/HT40 MCS 0	-85 dBm	-85 dBm
	802.11n/HT40 MCS 7	-67 dBm	-67 dBm
	802.11a/6 Mbps	-91 dBm	-
	802.11a/54 Mbps	-75 dBm	-
	802.11n/HT20 MCS 0	-90 dBm	-
	802.11n/HT20 MCS 7	-71 dBm	-
	802.11n/HT40 MCS 0	-88 dBm	-
5 GHz	802.11n/HT40 MCS 7	-69 dBm	-
	802.11ac/VHT20 MCS 0	-91 dBm	-
	802.11ac/VHT20 MCS 8	-67 dBm	-
	802.11ac/VHT40 MCS 0	-88 dBm	-
	802.11ac/VHT40 MCS 9	-62 dBm	-
	802.11ac/VHT80 MCS 0	-85 dBm	-
	802.11ac/VHT80 MCS 9	-59 dBm	-
		Transmitting Power (Typ.)	Transmitting Power (Typ.)
	802.11b/1 Mbps	17.5 dBm	17.5 dBm
	802.11b/11 Mbps	17 dBm	17 dBm
	802.11g/6 Mbps	16.5 dBm	16.5 dBm
2.4 GHz	802.11g/54 Mbps	15 dBm	15 dBm
	802.11n/HT20 MCS 0	15.5 dBm	15.5 dBm
	802.11n/HT20 MCS 7	14.5 dBm	14.5 dBm
	802.11n/HT40 MCS 0	15 dBm	15 dBm
	802.11n/HT40 MCS 7	13 dBm	13 dBm
	802.11a/6 Mbps	14.5 dBm	-
	802.11a/54 Mbps	12.5 dBm	-
	802.11n/HT20 MCS 0	13.5 dBm	-
	802.11n/HT20 MCS 7	11.5 dBm	-
	802.11n/HT40 MCS 0	12 dBm	-
5 GHz	802.11n/HT40 MCS 7	10.5 dBm	-
	802.11ac/VHT20 MCS 0	13.5 dBm	-
	802.11ac/VHT20 MCS 8	11.5 dBm	-
	802.11ac/VHT40 MCS 0	12 dBm	-
	802.11ac/VHT40 MCS 9	10.5 dBm	-
	802.11ac/VHT80 MCS 0	11.5 dBm	-
	802.11ac/VHT80 MCS 9	10.5 dBm	-

