

Construction Type Certification

Registration No. CSRT190010

Certificate Holder Quetel Wireless Solutions Co., Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai
200233, China

Product Category Article 2, Paragraph 1, Item 11-19

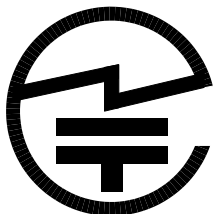
Model Type or Name EC21-J, EC21-J MINIPCIE

Type of Emission, Frequency and Antenna Power Refer to Annex 1

Manufacturer Quetel Wireless Solutions Co., Ltd.
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Remarks The scope of evaluation relates to the submitted documents and product only.
It is only valid in conjunction with the Annex.

When the product is placed on the Japanese market, the Specified Radio Equipment marking as shown on the right must be attached on visible part of the product.




R 018-190010

Witnesses that the certification is on Construction Type Certification under Article 38-24 of the Radio Law.

Date of Certificate
2019/1/7

Takuji Nakano

Certification Examiner : Takuji Nakano
 Certificate Technical Support Center Co., Ltd.



Type of Emission, Frequency and Antenna Power

5M00 D1A, D1B, D1C, D1D, D1E, D1F, D1X, D7W, G1A, G1B, G1C, G1D, G1E, G1F, G1X, G7W	
1927.2MHz~1977.5MHz(100kHz separation 504 channels)	23dBm
1922.5MHz~1927.1MHz(100kHz separation 47 channels)	12dBm
1712.5MHz~1782.5MHz(100kHz separation 701 channels)	23dBm
902.5MHz~912.5MHz(100kHz separation 101 channels)	23dBm
817.5MHz~842.5MHz(100kHz separation 251 channels)	23dBm
10M0 D1A, D1B, D1C, D1D, D1E, D1F, D1X, D7W, G1A, G1B, G1C, G1D, G1E, G1F, G1X, G7W	
1934.7MHz~1975MHz(100kHz separation 404 channels)	23dBm
1925MHz~1934.6MHz(100kHz separation 97 channels)	12dBm
1715MHz~1780MHz(100kHz separation 651 channels)	23dBm
910MHz(In 906.22MHz to 914.5MHz, continuous transmitting be limited with maximum bandwidth = 5.76MHz)	23dBm
820MHz~840MHz(100kHz separation 201 channels)	23dBm
15M0 D1A, D1B, D1C, D1D, D1E, D1F, D1X, D7W, G1A, G1B, G1C, G1D, G1E, G1F, G1X, G7W	
1942.2MHz~1972.5MHz(100kHz separation 304 channels)	23dBm
1927.5MHz~1942.1MHz(100kHz separation 147 channels)	12dBm
1932.5MHz(In 1927.19MHz to 1937.81MHz, continuous transmitting be limited with maximum bandwidth = 5.4MHz)	23dBm
1717.5MHz~1777.5MHz(100kHz separation 601 channels)	23dBm
822.5MHz~837.5MHz(100kHz separation 151 channels)	23dBm
20M0 D1A, D1B, D1C, D1D, D1E, D1F, D1X, D7W, G1A, G1B, G1C, G1D, G1E, G1F, G1X, G7W	
1949.7MHz~1970MHz(100kHz separation 204 channels)	23dBm
1930MHz~1949.6MHz(100kHz separation 197 channels)	12dBm
1930MHz(In 1925.32MHz to 1934.68MHz, continuous transmitting be limited with maximum bandwidth = 4.32MHz)	23dBm
1720MHz~1775MHz(100kHz separation 551 channels)	23dBm

Technical Construction Form (HU, E-UTRA)

1. Product Description	LTE Module	
2. Model Number	EC21-J, EC21-J MINIPCIE	
3. IEEE Standard No.	-	
4. Transmitter		
(1) Rated Output	Refer to Annex 1	
(2) Type of Emission and frequency	Refer to Annex 1	
(3) Oscillation	Synthesizer method using Crystal Oscillator with 19.2MHz	
(4) Type of Modulation	QPSK, 16QAM	
(6) RF Chip Number	WTR2965	
5. Antenna		
(1) Type or Structure	Chip Antenna, Dipole Antenna, Ext Antenna, FPCB Antenna, LTE MIMO Antenna, Magnetic Antenna, Metal Antenna, Monopole Antenna, Multi Band Antenna, Omni-Directional Antenna, Pattern Antenna, PCB Antenna, PIFA Antenna, SMA PLUG Antenna, SMD Antenna, Ultra-wideband I-bar Antenna, $1/4 \lambda$ Antenna, $\lambda/2$ Antenna	
(2) Antenna Gain	3dBi	
6. Power Source	DC 3.8V	
7. Auxiliary	<ul style="list-style-type: none"> - Calling and response action (include switching channel during connecting and calling) - Identify mobile phone with an unique number - Automatic antenna power control function (Article 49-6-9 of the Ordinance Regulating Radio Equipment) 	
8. Test Report	JE8N2908-01A (Issued Date: 2019.01.02)	
9. Test Lab	Sporton International Inc. (KunShan)	
10. Review Documents	Block Diagram Circuit Diagram BOM List Antenna Specification	External/Internal Photographs PCB Layout User Manual Certificate Label Design and Location
11. Confirmation Method of Certification by Type	ISO 9001 Certificates	
12. Reference Information	<ul style="list-style-type: none"> - Connection to Telecommunication Circuit Equipment - Module shaped radio equipment Peripheral equipment: Testing Board Interface: Mini PCIe, ANT, VBAT, PWRKEY, RESET_N, ADCs, STATUS....	