

LTE Power

Note: The Conducted output power refer to report R2003A0151-R2, R2003A0151-R3, R2003A0151-R5, R2003A0151-R6, FCC ID: XMR201707BG96, which is issued by TA Technology(Shanghai) Co., Ltd.

Measurement Data:

LTE Band	Modulation	Sub-carrier spacing (kHz)	Ntones	Conducted Power (dBm) for low/mid/high channel (MHz)			EIRP (dBm) for low/mid/high channel (MHz)			
				18602/1850.2	18900/1880.0	19198/1909.8	18602/1850.2	18900/1880.0	19198/1909.8	
NB-IOT Band 2 Stand-alone	BPSK	3.75	1@0	22.76	22.77	22.72	25.44	25.45	25.40	
			1@47	22.87	22.69	22.65	25.55	25.37	25.33	
		15	1@0	22.87	22.85	22.74	25.55	25.53	25.42	
			1@11	22.81	22.86	22.76	25.49	25.54	25.44	
	QPSK	3.75	1@0	22.83	22.65	22.68	25.51	25.33	25.36	
			1@47	22.84	22.68	22.61	25.52	25.36	25.29	
		15	1@0	22.85	22.78	22.71	25.53	25.46	25.39	
			1@11	22.76	22.81	22.70	25.44	25.49	25.38	
		15	12@0	22.97	22.98	22.95	25.65	25.66	25.63	
	Antenna Gain(dBi):				2.68					
	Max. EIRP for FCC (dBm):				25.66					
	EIRP Limit for FCC (dBm):				33.00					
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). ERP (dBm) = EIRP (dBm) - 2.15 (dB).										

LTE Band	Modulation	Sub-carrier spacing (kHz)	Ntones	Conducted Power (dBm) for low/mid/high channel (MHz)			EIRP (dBm) for low/mid/high channel (MHz)			
				19952/1710.2	20175/1732.5	20398/1754.8	19952/1710.2	20175/1732.5	20398/1754.8	
NB-IOT Band 4 Stand-alone	BPSK	3.75	1@0	23.04	23.28	23.04	24.60	24.84	24.60	
			1@47	23.00	23.24	23.07	24.56	24.80	24.63	
		15	1@0	23.11	23.33	23.24	24.67	24.89	24.80	
			1@11	23.07	23.35	23.19	24.63	24.91	24.75	
	QPSK	3.75	1@0	22.99	23.21	23.09	24.55	24.77	24.65	
			1@47	23.03	23.19	23.11	24.59	24.75	24.67	
		15	1@0	23.07	23.35	23.18	24.63	24.91	24.74	
			1@11	23.21	23.32	23.26	24.77	24.88	24.82	
		15	12@0	23.36	23.45	23.46	24.92	25.01	25.02	
	Antenna Gain(dBi):				1.56					
	Max. EIRP for FCC (dBm):				25.02					
	EIRP Limit for FCC (dBm):				30.00					
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). ERP (dBm) = EIRP (dBm) - 2.15 (dB).										

LTE Band	Modulation	Sub-carrier spacing (kHz)	Ntones	Conducted Power (dBm) for low/mid/high channel (MHz)			ERP (dBm) for low/mid/high channel (MHz)			
				23182/777.2	23230/782	23278/786.8	23182/777.2	23230/782	23278/786.8	
NB-IOT Band 12 Stand-alone	BPSK	3.75	1@0	22.81	22.83	22.88	19.79	19.81	19.86	
			1@47	22.67	22.79	22.83	19.65	19.77	19.81	
		15	1@0	23.07	23.12	23.11	20.05	20.10	20.09	
			1@11	23.04	23.11	23.09	20.02	20.09	20.07	
	QPSK	3.75	1@0	22.78	22.80	22.84	19.76	19.78	19.82	
			1@47	22.79	22.78	22.80	19.77	19.76	19.78	
		15	1@0	23.06	23.08	23.08	20.04	20.06	20.06	
			1@11	23.09	23.07	23.11	20.07	20.05	20.09	
		15	12@0	23.13	23.12	23.13	20.11	20.10	20.11	
	Antenna Gain(dBi):				-0.87					
	Max. ERP for FCC (dBm):				20.11					
	ERP Limit for FCC (dBm):				34.77					
<i>Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). ERP (dBm) = EIRP (dBm) - 2.15 (dB).</i>										

LTE Band	Modulation	Sub-carrier spacing (kHz)	Ntones	Conducted Power (dBm) for low/mid/high channel (MHz)			ERP (dBm) for low/mid/high channel (MHz)			
				23012/699.2	23095/707.5	23178/715.8	23012/699.2	23095/707.5	23178/715.8	
NB-IOT Band 13 Stand-alone	BPSK	3.75	1@0	23.16	23.14	23.08	22.94	22.92	22.86	
			1@47	23.12	23.08	23.07	22.90	22.86	22.85	
		15	1@0	23.37	23.23	23.19	23.15	23.01	22.97	
			1@11	23.34	23.20	23.28	23.12	22.98	23.06	
	QPSK	3.75	1@0	23.21	23.05	23.06	22.99	22.83	22.84	
			1@47	23.19	23.01	23.05	22.97	22.79	22.83	
		15	1@0	23.36	23.25	23.21	23.14	23.03	22.99	
			1@11	23.34	23.27	23.27	23.12	23.05	23.05	
		15	12@0	23.56	23.45	23.44	23.34	23.23	23.22	
	Antenna Gain(dBi):				1.93					
	Max. ERP for FCC (dBm):				23.34					
	ERP Limit for FCC (dBm):				34.77					
<i>Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). ERP (dBm) = EIRP (dBm) - 2.15 (dB).</i>										