



深圳市博格斯通信技术有限公司

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LTE OTA and GPS performance for OBDV8+ CAT4 US Ferrari SIM/eSIM Dspic M10

Device information:

product name:	OBDV8+ CAT4 US Ferrari SIM/eSIM Dspic M10
model name:	C4D-4G4USAD_V8+
ASB tested samples	ASB02083AB ASB02082AB

Electrical Specifications:

Frequency Band	4G	The Antenna Material	LDS
Nominal Impedance	50 Ω	Antenna Connection Mode	Touch
VSWR	≤ 4.0	Working Temperature	-40℃~+85℃
Peak Gain	617-746MHz: 1.86dBi	Keep The Temperature	+19℃~+23℃
	1710-2200MHz: 3.04dBi	Polarization	Linear Polarization

Frequency Band	GPS	The Antenna Material	Ceramic+PCB
Nominal Impedance	50 Ω	Antenna Connection Mode	Weld
VSWR	≤ 4.0	Working Temperature	-40℃~+85℃
Peak Gain	1575MHz: 1dBi	Keep The Temperature	+19℃~+23℃
		Polarization	Right-Handed Circular

Test Conditions And Methods:

Test Instruments	Test Method	Test Result	Test Data
7*4*3 microwave darkroom E5071B network analyzer 48 probe test system MT8862 comprehensive tester	1. Assemble the antenna to be tested on the prototype. 2. Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. Test antenna passive data with test software.	Refer to the Test Report	November 22(nd), 2022

LTE OTA performance

LTE OTA performance for OBDV8+ CAT4 US Ferrari SIM/eSIM Dspic M10												
Band	Munic OTA Request		Channel	OBD V8+ Ferrari SIM M10 US ASB02083AB D3 IMEI:861041050019555		OBD V8+ Ferrari ESIM M10 US ASB02082AB D3 IMEI:861041050016288		Dspic M8		Dspic M10		peak gain
	TRP	TIS		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS	
LTE12 (5M)	18	-95	Low	18.57	-95.35	18.72	-95.97	18.58	-95.53	18.59	-96.49	1.86
			Mid	18.38	-95.67	18.45	-96.35	18.8	-96.5	18.34	-97.46	
			High	17.64	-95.18	18.11	-95.74	18.56	-95.31	18.09	-96.82	
LTE2 (10M)	19.5	-95	Low	21.11	-99.12	21.15	-99.12	21.52	-99.59	21.77	-98.87	3.04
			Mid	21.26	-98.8	21.27	-99.24	21.68	-99.06	21.73	-99.09	
			High	21.55	-98.35	21.44	-98.84	21.92	-99.76	21.45	-99.69	
LTE4 (10M)	20	-97	Low	20.79	-96.71	21.02	-97.12	21.29	-98.53	21.34	-97.38	3.04
			Mid	21.26	-97.62	21.44	-98.12	21.29	-98.73	21.7	-98.29	
			High	21.12	-97.17	21.2	-97.05	21.23	-97.66	21.71	-97.01	
LTE66 (10M)	20	-97	Low	21.22	-97.17	21.22	-97.17	21.07	-98.53	21.8	-97.76	3.04
			Mid	21.03	-97.34	20.92	-97.31	21.11	-98.73	21.69	-97.54	
			High	21.13	-96.35	21.13	-97.21	20.97	-97.66	21.73	-96.86	
LTE71 (10M)	17	-92	Low	18.59	-93.04	18.6	-92.57	18.69	-91.65	19.06	-91.56	1.86
			Mid	18.07	-93.62	18.36	-93.49	18.26	-92.94	18.55	-93.01	
			High	17.64	-94.56	17.93	-94.39	18.15	-92.75	17.68	-93.51	
LTE5 (10M)	/	/	Low	12.09	-89.13	11.71	-88.27	12.55	-88.02	11.8	-89.88	-3.67
			Mid	11.23	-89.18	11.03	-88.4	11.94	-89.69	11.27	-90.28	
			High	10.84	-88.23	10.65	-87.83	11.16	-88.18	10.6	-89.22	

