

3: Specifications

Parameter		Min.	Nominal	Max.
Mechanical		85 mm x 55 mm x 7 mm		
Environmental				
Temperature (Celsius degrees)		-20	+25	+70
Humidity (%)		0		90
Vibration (m2/s3):	5 Hz to 20 Hz	0.96 for 30 minutes		
	20 Hz to 100 Hz	0.96 at 20 Hz, thereafter -3dB / octave, for 30 minutes		
Connectors				
Control and ID		Pin header, Samtec, FTMH-18-02-F-DV-PTR		
RF		Coaxial, JAE Electronics, SMB003D00		
RF Signals				
GMR output (dBm)		33.5		
GMR input (dBm)			< -90	-20
GPS input (dBm)		-10		
Power supply				
Voltage (V)		3.6		4.2
Current (A)	RMS	1		
	Peak	4		

Note: Inmarsat GSPS Core Module 2.0 has been shown to be capable of compliance with the basic restrictions for human exposure (General Public and Occupational) to electromagnetic fields, at a distance of up to 20 cm from the antenna.

3.1: Regulatory Information

FCC ID: YCT-GSPSCM2

ISED Canada ID: 8944A-GSPSCM2

Regulatory Approvals	Specification	Notes
Safety	IEC 62368-1:2014	Second Edition
R&TTE/RED	EN 301 489-1	
	EN 301 489-20	
	EN 301 681	
	EN 303 413	
	EN 62311:2008	

Regulatory Approvals	Specification	Notes
FCC / ISED Canada	CFR 47 Part 15B / ICES-003 / RSS-GEN	
	FCC CFR 47 Part 25.129 / IC RSS-170	Part 25.202(d), (f): Part 25.204, Part 25.216
	CFR 47 Part 1.1310 (2016)	
	Health Canada Safety Code 6	

Note: It is the responsibility of the manufacturer to ensure that the host equipment and the final developed product provides adequate protection against hazards, in accordance with IEC 62368 and human exposure to electromagnetic fields in accordance of EN 62311, CFR 47 Part 1.1310 and Health Canada Safety Code 6.

3.2: Environmental Tests

Environmental tests:	Test reference:	Test description:	Notes:
Vibration sinusoidal	IEC 60068-2-6 Fc	5-100Hz, 7 m/s ² .	120 min endurance test at resonance frequencies
Vibration random	IEC 60068-2-64 Fh	5-10Hz +10dB/oct 10-50Hz 5.58 m ² /s ³ 50-300Hz -10dB/oct	20 minutes in three axes
Shock	IEC 60068-2-27 Ea	6 ms 300 m/s ²	1 impulse in both directions of three axes
Random Free Fall	IEC 60068-2-32 Ed	Procedure 2	
Guided Free Fall	IEC 60068-2-32 Ed	Procedure 1	
Damp heat	IEC 60068-2-30 Db	Variant 1	
Change of temperature (thermal shock)	IEC 60068-2-14 Na		5 cycles 1 cycle = -40°C (2h) / +85°C (2h) Change time < 3 min