

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 |