

Accel

GENERAL

Acquisition	Data filtering, compression & time stamping 24 bits data
Sensor tests	distortion, noise, tilt
Instrument tests	gain, phase, distortion
Memory autonomy (2ms sampling)	60 days 24hr/7day
Battery autonomy (Pathfinder enabled) (Pathfinder disabled)	>28 days 24hr/7day >30 days 24hr/7day
Weight	310 g
Dimensions	95x82x45 mm

ENVIRONMENTAL LIMITS

Operational temperature	-40°C to +60°C
Storage temperature	-40°C to +60°C
Ingress protection	IP68
Battery charge temperature	0°C to +30°C

RADIO TRANSMISSION - Pathfinder

Frequency band	2402 MHz – 2478 MHz
Range	40 m nominal LOS

RADIO TRANSMISSION - Direct

Frequency band	2402 MHz – 2478 MHz
Range	40 m nominal LOS

GNSS

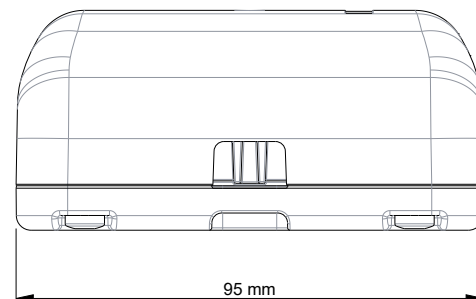
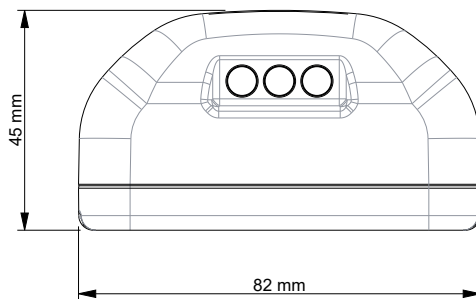
Supported constellations	GPS L1 C/A / SBAS / QZSS, GLONASS, BeiDou, Galileo
Cold start acquisition sensitivity	-148 dBm



SENSOR PARAMETERS

Sensor type	MEMS Accelerometer
Sample rate	4, 2, 1, 0.5 ms
Timing accuracy	Synchronous to gps clock < +/-5µs
Bandwidth	0-400 Hz, 3 dB
Low-cut filter	Selectable (none, 0.15625 Hz, 0.3125 Hz, 0.625 Hz, 1.25 Hz, 2.5 Hz)
High-cut filter	0.8 FN linear or minimum phase
Full scale	5 m/s ² (510 mg)
Noise (10-200Hz)	0.15 µm/s ² /√Hz (15 ng/√Hz)
Instantaneous dynamic range	128 dB
Distortion	-90 dB
Gain accuracy	< 0.25 %
Phase accuracy	< 5 µs

Note: Sercel reserves the right to change its specifications without prior notice.
All specifications are typical at 25 °C, 2 ms sampling except where otherwise stated



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