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

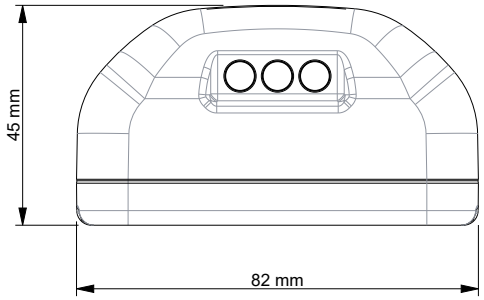
RADIO TRANSMISSION - Pathfinder	
Frequency band	2402 MHz – 2478 MHz
Range	50 m nominal LOS

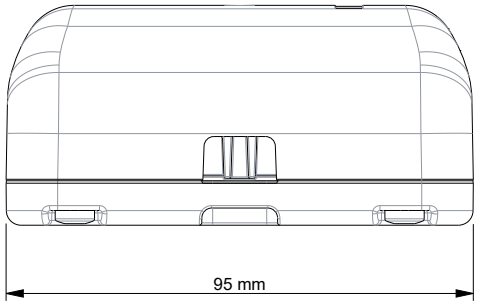
RADIO TRANSMISSION - Direct	
Frequency band	2402 MHz – 2478 MHz
Range	50 m nominal LOS

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/s2/√Hz (15 ng/√Hz)
Instantaneous dynamic range (IDR)	125 dB (RMS) ; 128 dB (peak-to-RMS)
Distortion	-90 dB ; 0.0032%
Sensor amplitude accuracy	< 0.25 %
Sensor phase accuracy	< 1 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





Sercel - France
16 rue de Bel Air- B.P. 30439
44474 CARQUEFOU Cedex
Tel: (33) 2 40 30 11 81
E-mail: sales.nantes@sercel.com

Sercel Inc. - U.S.A.
17300 Park Row - Houston,
Texas 77084
Tel: (1) 281 492 6688
E-mail: sales.houston@sercel.com

SERCEL
A Viridien Business
www.sercel.com

© Sercel 11/26