

Kurloo Device Specifications

General Specifications		
Product variants	Kurloo M1 Sensor	Kurloo F1 Reference
Dimension (LxWxH)	168.8mm x 207.7mm x 272.2mm (without supplied antennas)	
Weight	1325g with internal battery and supplied antennas	
Operating Environment	-10°C to +65°C. Relative humidity 10% to 90% non-condensing. IP67, dustproof, protection against strong jets of water or hose-directed water, rain, or snow.	

GNSS		
Constellation	GPS, Galileo, Beidou, QZSS	GPS, GLONASS, Galileo, Beidou, QZSS
Signal Tracking	L1 of supported satellites	L1, L2, E5b of supported satellites
GNSS Antenna	Single-band helical antenna	Dual-band helical antenna

Communications, Interfaces and Storages	
Cellular	Integrated LTE CAT M1 modem. Support 700-2200 MHz LTE bands with +23dBm output power, B28 (700 MHz) in Australia. Feature PSM power saving and coverage enhancement modes 300 kbps download speed and 375 kbps upload speed Certified for global operation: AT&T, Bell, Deutsche Telekom, KDDI, Telstra, Verizon, Vodafone, GCF, PTCRB
USB-C	Support power passthrough for charging internal battery
Data Storage	Supplied with 16GB microSD card
SIM Card	Supplied with micro-SIM card. Data access provided as part of Kurloo service subscription

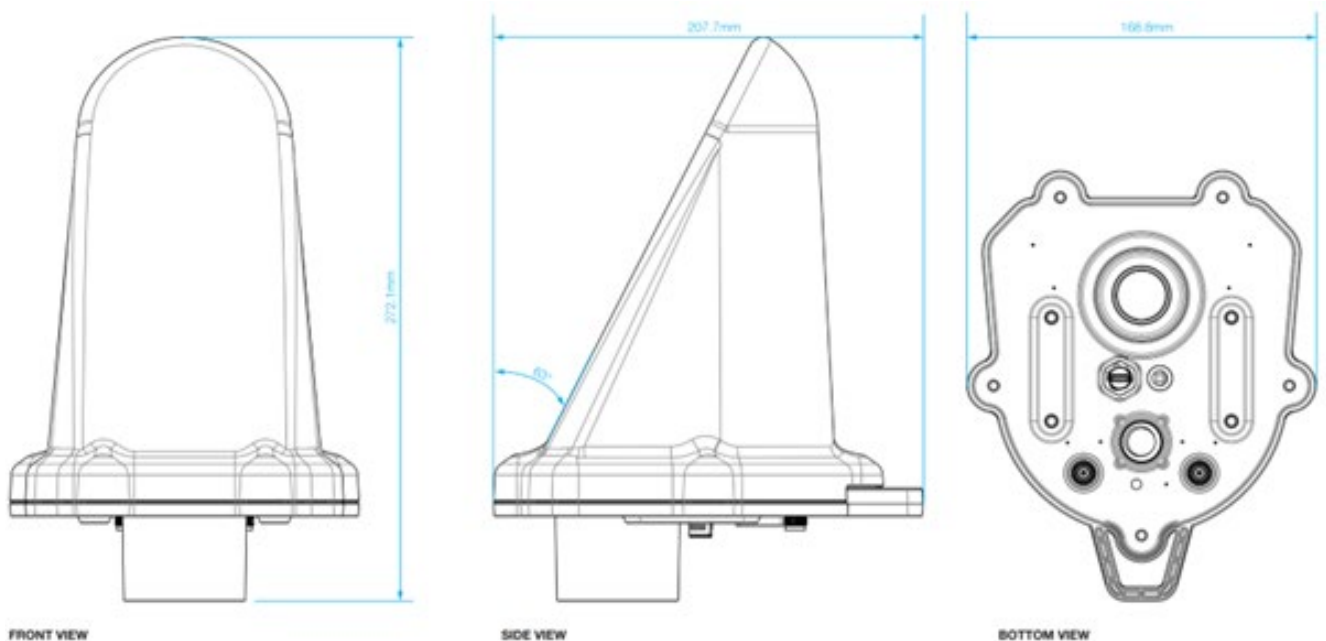
Supporting Features	
Environment Sensors	Internal temperature Ambient humidity and pressure sensor Ultralow power 3-axis accelerometers
Distance Sensor	Working range from 300mm to 5000mm to the target with the largest acoustic return Typical accuracy of 1% or better

Electrical Data		
Product variants	Kurloo M1 Sensor	Kurloo F1 Reference
Solar	1.5W integrated solar power panel	
Battery	46WH rechargeable Lithium Iron Phosphate (LiFePO 4) battery for added safety, long life space and good temperature performances.	
External Power Source	USB-C power passthrough input	

Automated Daily Static GNSS Survey Solution	
Horizontal Accuracy	2mm + 0.5ppm RMS ^{1,2,3}
Vertical Accuracy	3mm + 1.0ppm RMS ^{1,2,3}
Latency	Daily solution available at 11:00am (AEST)

1. Accuracy is achievable under ideal data observation environment and conditions
2. Accuracy is based on short baseline distance (<1Km) between Kurloo F1 Reference and Kurloo M1 Sensor
3. Accuracy is based on cloud GNSS data processing of continuous data observation period

Technical Specifications



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