WiNG Range

GENERAL			
	AFU	DFU	DFU 3C
Acquisition	• Data filtering, compression & time stamping • 24 bits A/D conversion	• Data filtering, compression & time stamping • 24 bits data	
Sensor tests	resistance, noise, tilt	distortion, noise, tilt	distortion, noise, tilt, gravity
Instrument tests	noise, gain, phase, distortion	gain, phase, distortion	gain, phase, distortion, Xtalk
Memory autonomy	1480 hours (60 days 24 hr/day)		
Battery autonomy **(Pathfinder enabled)** **(Pathfinder disabled)**	960 hours (40 days 24 hr/7days) 1200 hours (50 days 24 hr/7days)		430 hours (18 days 24 hr/7days) 480 hours (20 days 24 hr/7days)
Weight	825 g	800 g (no spike), 860 g (with spike)	875 g (no spike)

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

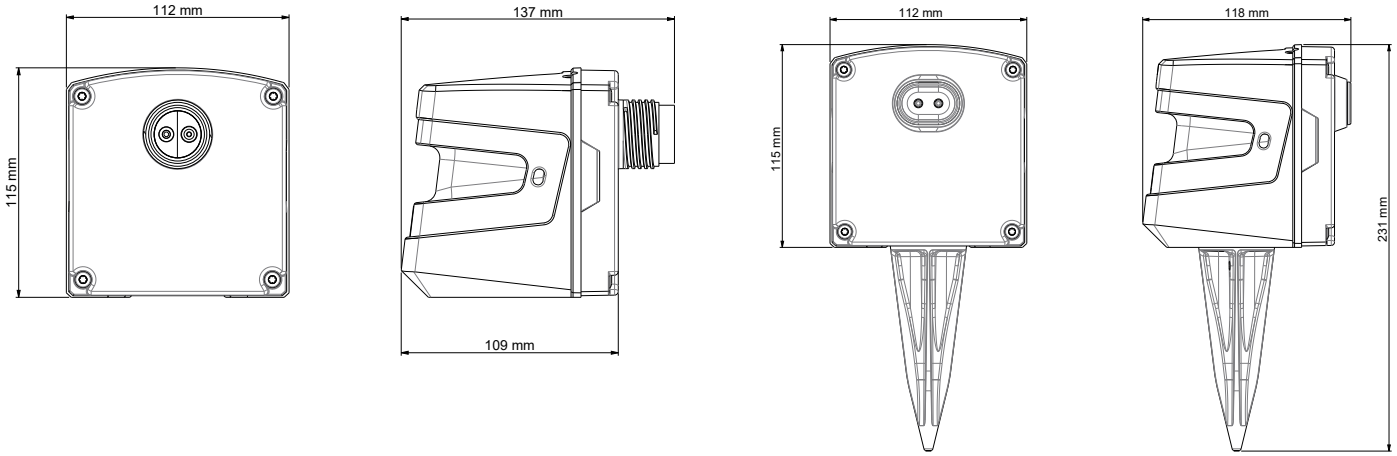
RADIO TRANSMISSION -Pathfinder	
Frequency band	2402 MHz – 2478 MHz
Range	75 m nominal LOS

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

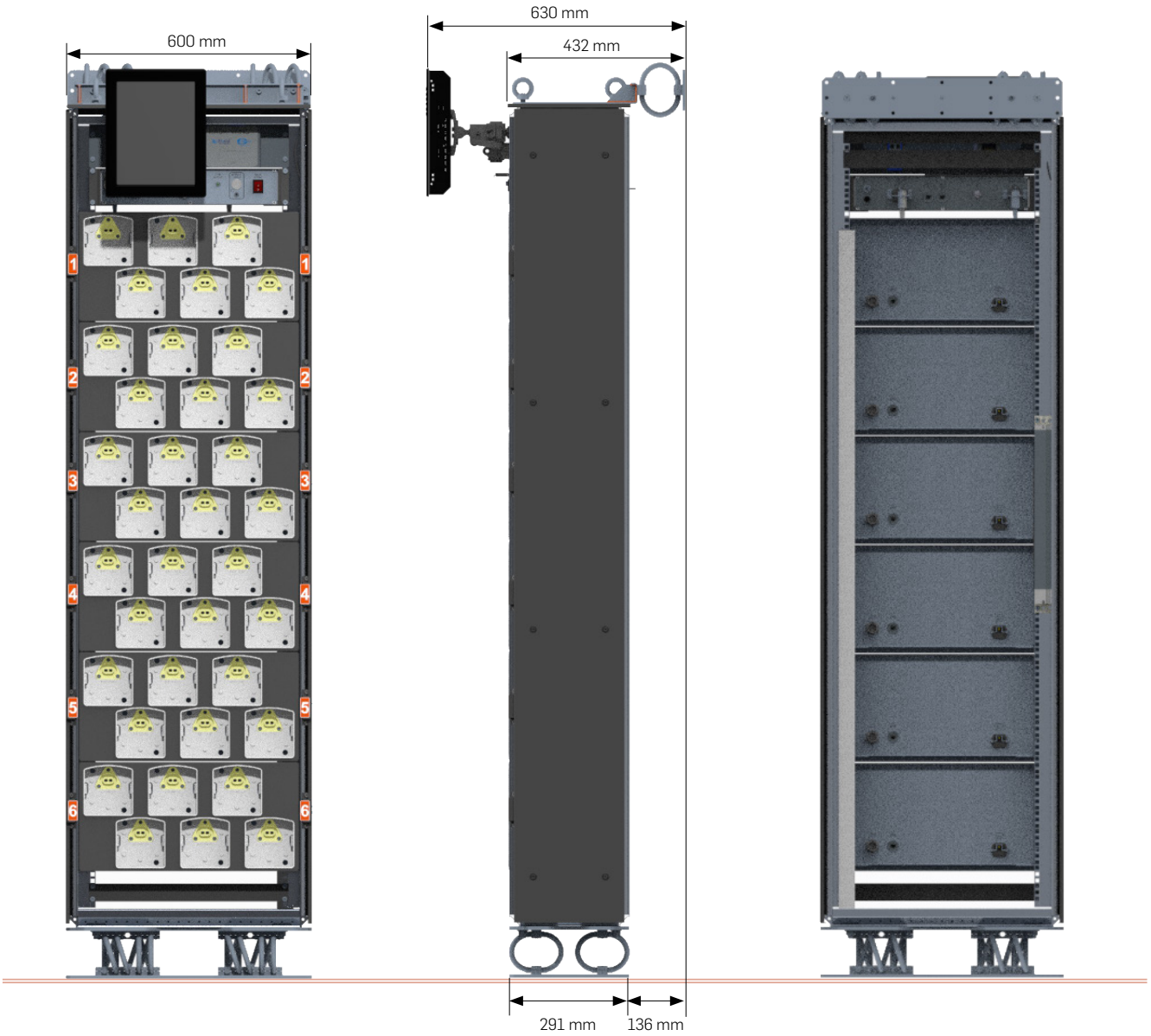
GNSS	
Supported constellations	GPS L1 C/A / SBAS / QZSS, GLONASS, BeiDou, Galileo
Cold start acquisition sensitivity	GPS, GLONASS: -148 dBm

SENSOR PARAMETERS			
	AFU	DFU	DFU 3C
Sensor type	External	MEMS Accelerometer	
Sample rate	4, 2, 1, 0.5 ms		
Timing accuracy	Synchronous to gps clock < +/-5µs		
Input impedance differential mode	20 kΩ // 77 nF	-	
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	1.6 V RMS (0 dB), 400 mV RMS (12 dB), 100 mV RMS (24 dB) (pre-amp gain)	5 m/s² (510 mg)	
Noise (3-200Hz)	350 nV RMS(0 dB), 145 nV RMS (12 dB), 90 nV RMS (24 dB)	-	
Noise (10-200Hz)	-	0.15 µm/s2/√Hz (15 ng/√Hz)	
Instantaneous dynamic range	132 dB	125 dB (RMS) ; 128 dB (peak-to-RMS)	
System dynamic range	145 dB	125 dB (RMS) ; 128 dB (peak-to-RMS)	
Distortion	-110 dB	-90 dB ; 0.0032%	
Amplitude accuracy	< 0.1 %	< 0.25 %	
Phase accuracy	< 20 µs	< 1 µs	< 1 µs
Orthogonality accuracy	-	-	+/-0.25°
Tilt measurement accuracy	-	-	+/-0.5°

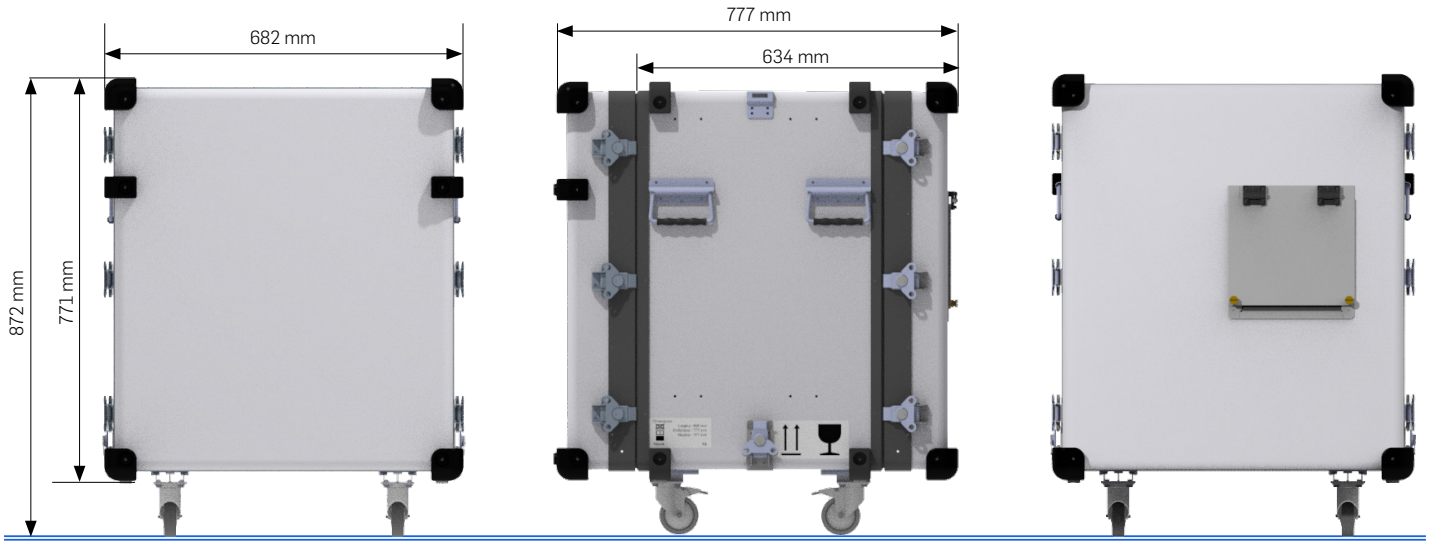
Note: Azimuth tool (compass) required at deployment for proper 3C acquisition and data processing



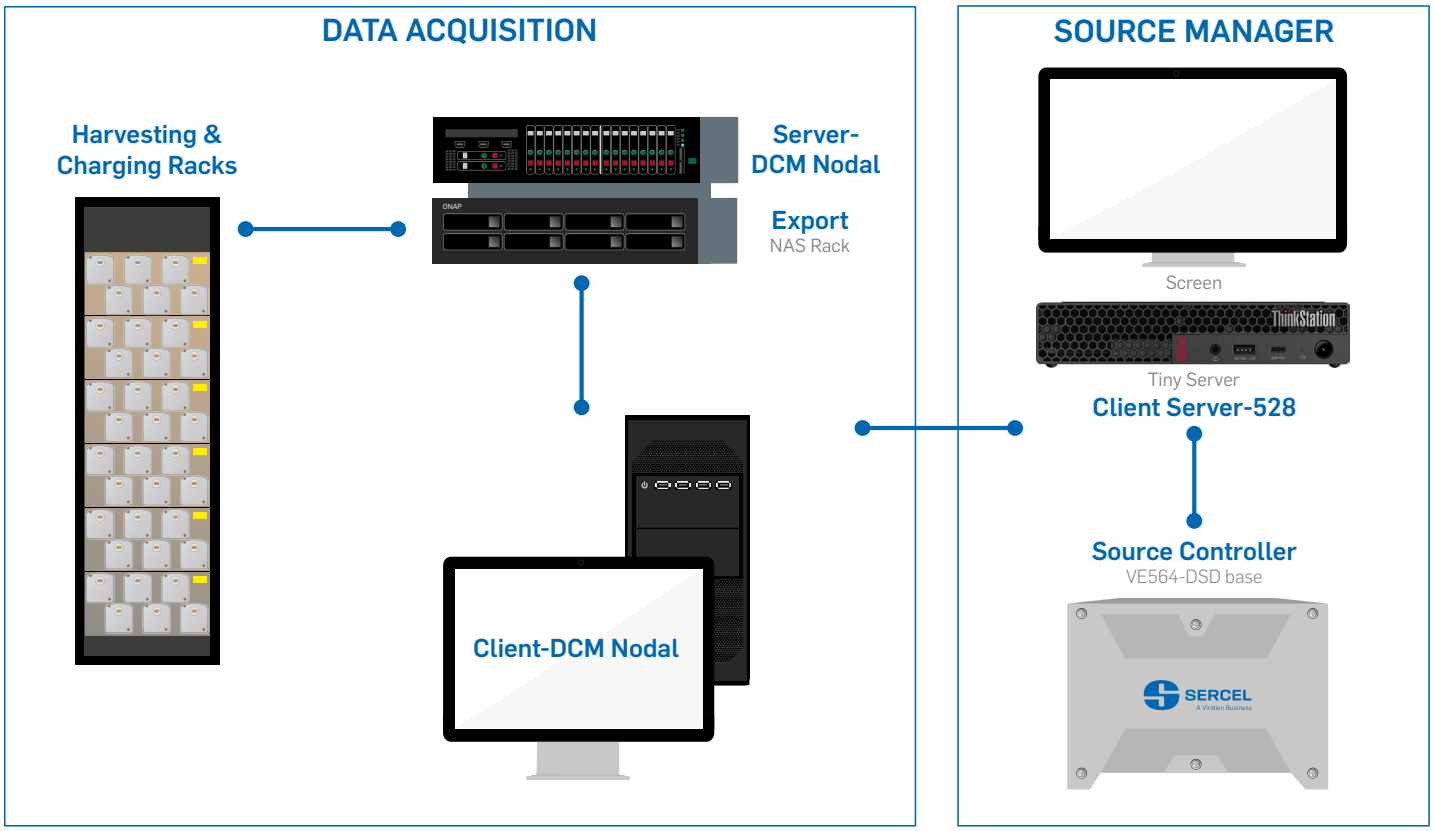
RACK	
Dimensions	2075 mm H x 600 mm W x 300 mm D without shock absorbers 2200 mm H x 600 mm W x 630 mm D with shock absorbers and screen
Weight	130 Kg
Capacity	36 slots
Charging time	6 hr (fully discharged – fully charged)
Input voltage	110-240 Vac
Rated power	950 W (with 36xDFU charging)
Operational temperature	0 °C to +30 °C
Storage temperature	-40 °C to +70 °C
Charge temperature	0 °C to +30 °C
Protection rating	IP4X



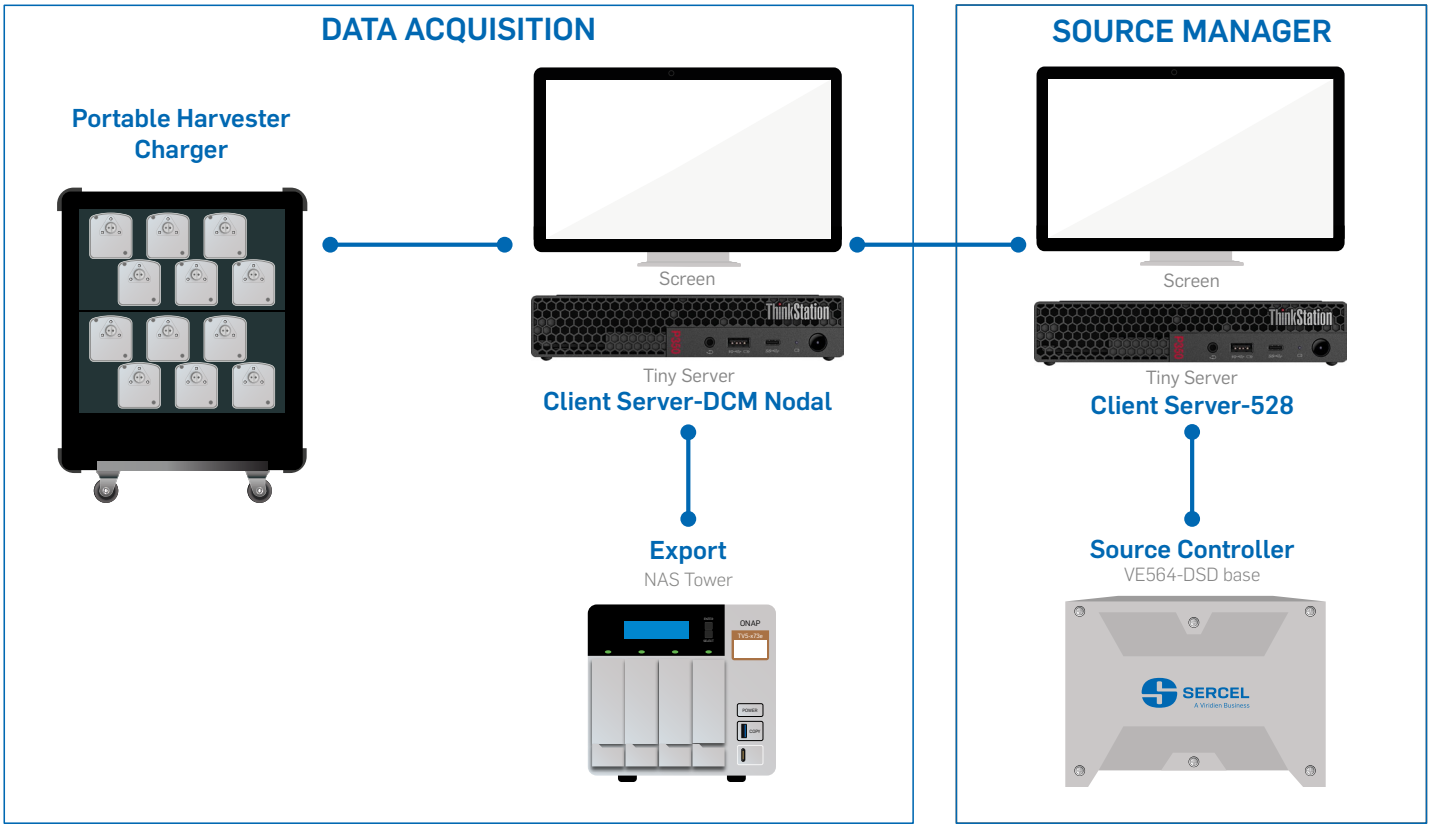
PORTABLE HARVESTER CHARGER	
Dimensions	682x777x771 mm
Weight	65 Kg
Capacity	12 slots
Charging time	6 hr (fully discharged – fully charged)
Input voltage	110-240 Vac
Rated power	325 W (with 12xDFU charging)
Operational temperature	0 °C to +30 °C
Storage temperature	-40 °C to +70 °C
Charge temperature	0 °C to +30 °C
Protection rating	IP54 closed / IP4X open



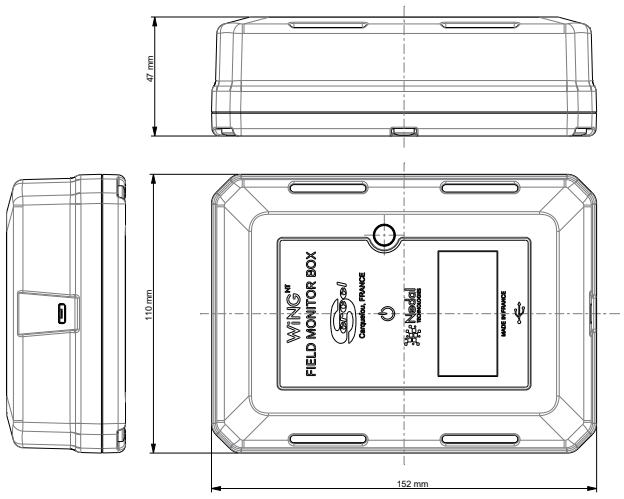
System architecture: WiNG



System architecture: WiNG Lite



FIELD MONITOR	
FIELD MONITOR BOX	
Dimensions	152 mm (6") x 110 mm (4.33") x 47 mm (1.85")
Weight	565 g
Charging time	3 hrs (fully discharged – fully charged)
Input voltage	5 V (USB) – (230 Vac / 5 V 2 A for USB Charger)
Radio GFSK	Direct Frequency band 2402 MHz – 2478 MHz
WIFI	2.4 GHz : 802.11 g 5 GHz : 802.11 an
Operational temperature	-20 °C to +60 °C
Storage temperature	-40 °C to +60 °C
Charge temperature	0 °C to +30 °C
Protection rating	IP67
Battery autonomy	Up to 10 h



FIELD MONITOR DEVICE	
Type	Tablet 8''
Dimensions	210 mm (8.3") x 124.4 mm (4.9") x 8.0 mm (0.31")
Weight	345 g
Protection rating	IP68
Battery autonomy	Up to 10 h

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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