



## SPECIFICATIONS

Water Velocity Profiling	Profiling Range	0.1-6 m <sup>(*)1</sup>
	Velocity Range	+/- 5 m/s
	Accuracy	1% +/-0.002 m/s
	Resolution	0.001 m/s
	Number of Cells	Up to 128
	Cell Size	2.5-30 cm
	Data Output Rate	1.0 Hz
Bottom Tracking	Depth Range	0.1-6 m <sup>(*)1</sup>
	Accuracy <sup>(*)2</sup>	1% +/- 0.002 m/s
	Resolution	0.001 m/s
Depth Measurement Sensors	Range	0.1-6.5 m <sup>(*)1</sup>
	Accuracy	1% +/-0.005 m
	Temperature Sensor	Resolution: $\pm 0.01^{\circ}\text{C}$ Accuracy: $\pm 0.5^{\circ}\text{C}$
	Compass/Tilt Sensor	Range: $\pm 180^{\circ}$ Pitch/Roll, 0-360° Heading Heading Accuracy: $\pm 2^{\circ}$ Pitch/Roll Accuracy: $\pm 1^{\circ}$
Transducers	Total Number, Frequency	Five, 3.0 MHz
	Beam Angle	25°
	Beam Width	3°
	Bandwidth	25%
Battery Characteristics	Input Voltage	3.3-4.2 VDC
	Power Source	Li-Ion
	Battery Life	1 x size 18650
	Power Consumption	Seven hours continuous use, typical settings
	Dimensions	19.2 mm x 69.7 mm
	RTK Rover Battery Life	1 x size 18650
	RTK Base Station	1 x size 18650
Communications	Radio Protocol	Bluetooth Low Energy (BLE5)
	Range	100 m <sup>(*)3</sup>
	Bluetooth Compliance	FCC Part 15, FCC ID: XPNINAB30 ISED Certification: 8595A-NINAB30
Environmental	Operating Temperature	-5° to 45°C (23°F to 113°F)
	Storage Temperature	-20° to 70°C (-4°F to 158°F)
	Storage with Battery Temperature <sup>(*)5</sup>	-20° to 45°C (-4°F to 113°F)
RS5 Physical Properties	Dimensions - TB-Micro	80 cm (31.5") x 46.5 (18") cm x 15 cm (6")
	Weight in Air - TB-Micro	4.2 kg (9.3 lbs)
	Dimensions - RS5 Unit	24 cm (9.5") x 5 cm (2.2")
	Weight in Air - RS5 Unit	0.45 kg (1.0 lbs)
	Weight in Water - RS5 Unit	0.15 kg (0.33 lbs)
	Waterproof Rating	IP-67
DGNSS	Horizontal RMS	SBAS (WAAS): <0.3 m (0.98 ft)
	2DRMS	SBAS (WAAS): <0.6 m (1.96 ft)
	Frequency	Multi-frequency, multi-constellation
	GNS3M Atlas Subscription	
SonTek-RTK	Horizontal Accuracy	(Quality 4) < 0.02 m
	Vertical Accuracy	(Quality 4) < 0.04 m
	Frequency	L1C/A, L2C, Multi-GNSS
	Base-to-Rover Range	250 m Line of sight

\*Additional notes

<sup>1</sup> Maximum range will vary with environmental conditions.

<sup>2</sup> Bottom velocity accuracy.

<sup>3</sup> When using provided SonTek USB radio with antenna.



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