

GPS AND IMU DEVICES

	NAVION i2	DS-IMU1	DS-VGPS-HS/HSC	DS-GYRO3
NAVIGATION				
Standalone/SBAS/RTK (horizontal positioning)	1.2 m	2 m	1.2 m	-
Velocity accuracy	0.015 m/s	0.05 m/s	0.02 m/s	-
Roll & Pitch accuracy (dynamic)	0.03 °	0.1 °	-	0.1 °
Heading accuracy (dynamic with GNSS)	0.08 °	0.2 °	-	0.1 °
Slip angle accuracy	0.08 °	0.3 °	-	-
Output data rate	Up to 100 Hz	Up to 100 Hz	20/100 Hz	up to 1600 Hz
GNSS				
Supported navigation systems	GPS L1, L2, L5; GLONASS L1, L2, L3 BeiDou B1, B2 Galileo E1, AltBOC, E5a, E5b NavIC (IRNSS) L5	GPS L1C/A, GLONASS L1OF, BeiDou B1I	GPS L1, L2* GLONASS L1, L2*	-
Supported SBAS systems	SBAS L1, L5 QZSS L1, L2, L5	-	WAAS, EGNOS, MSAS, GAGAN, QZSS	-
ADDITIONAL FEATURES				
Dual antenna heading	✓	-	-	-
RTK positioning	✓	✓	✓	-
HARDWARE				
Operating voltage	9 to 36 V	5 to 36 V *USB powered	9 to 36 V	5 V *USB powered
Operating temperatures	-40 °C to 71 °C (0.8 °C/min Max)w	-40 °C to 85 °C	0 °C to 60 °C	-40 °C to 85 °C
INERTIAL SENSORS				
Accelerometers	✓	✓	-	✓
Gyroscope	-	-	-	✓
Magnetometer	-	-	-	✓

RTK 1 CM ACCURACY

Optional RTK upgrade of all GPS units, improving positioning accuracy down to 1 cm.

USB, CAN, RS232, ETHERNET

GPS instruments offer a variety of data connection interfaces from USB, CAN, RS232 and Ethernet



High accuracy 100Hz GPS receivers and Inertial Measurement Units (IMU) with Real-time Kinematics (RTK) support for the most precise position based test and measurement applications.

INERTIAL MEASUREMENT UNITS

Very rugged IMU units - IP67 degree of protection - which in addition to GPS receivers have an integrated 3-axis accelerometer and 3-axis gyroscope to improve dead reckoning.