

Navsight Solution

Product Change Notice

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Change in integrated GNSS Navsight versions

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This notice is to inform you about changes in our Navsight products range offer.

1. Description of change

In order to keep our Navsight products on the edge of performance and to be more competitive for our customers, we are updating this products range as follows:

- The internal GNSS receiver inside the Navsight-S products is updated with a more powerful and featured model.
- The Navsight-T, Navsight-E MRU and Navsight-E OEM products are end-of-life and will not be renewed.

2. Impact of change

SBG Systems has taken all actions to ensure a smooth transition for all users.

For continued products, new hardware revision is 100% form and fit compatible. Function is compatible as well for most users but some advanced features might be slightly different from previous units. Changes are listed below. Other specification and performance parameters remain the same.

For products which are end-of-life, Navsight-S are 100% form and fit compatible. Function is compatible with some limitations.

New Navsight-S products hardware revision is rev. 2.

2.1. Mass change

Product mass is increasing by about 35 g

2.2. Overall power consumption

The typical power consumption decreases from 9.5 W to 8.5 W when using all constellations and signals.

2.3. New Navsight-S receiver specifications

The Navsight-S rev. 2 embeds a very high end, survey grade GNSS receiver with dual antenna heading capability.

It features L1/L2/L5 signals tracking and uses GPS, GLONASS, BEIDOU and GALILEO constellations to provide very accurate and reliable measurements even in harsh environments. It also features an integrated L-band receiver allowing MARINESTAR™ PPP correction subscription.

This latest generation GNSS receiver also features very accurate RTK positioning with the world's leading signal availability and minimal re-acquisition time after a GNSS outage. With a refresh rate of 20 Hz, this receiver provides best accuracy and reliability in harsh GNSS environments thanks to a very advanced auto mitigating algorithms that detects and eliminates multi-path situations or Inmarsat / Iridium jamming.

	Specification	Remark	
Channels	544		
Signal tracking	GPS: L1 C/1, L2, L2C, L5 GLONASS: L1 C/A, L2 C/A, L2P, L3 GALILEO: E1, E5a, E5b Beidou: B1I, B1C, B2a, B2I, B3I	QZSS: L1 C/A, L2C, L5 SBAS integrated L-band	All constellations & signals enabled by default
Horizontal position accuracy	Single Point L1/L2/L5 SBAS / DGNSS RTK PPP (MARINESTAR™)	1.2 m 0.6 m / 0.4 m 0.6 cm + 0.5 ppm 10 cm	RTK enabled by default PPP support requires a valid subscription from a third party PPP service provider.
Velocity Accuracy	0.03 m/s RMS		
True Heading Accuracy	0.15° 0.03°	1 m baseline 5 m baseline	
Velocity limit	515 m/s	Due to export licenses	
Time to First Fix	Cold start	< 45 s	
	Hot start	< 20 s	
Signal reacquisition	L1/L2/L5	< 1 s	
Output frequency	PVT: 5 Hz (Max 20 Hz) RAW data: 1 Hz (Max 100 Hz)		
Diff. Corrections	RTCM V2.x, V3.x CMR V2.0, CMR+		

2.4. Antennas requirements

- The allowed antenna gain input for Navsight-S rev. 2 is reduced from 15-50 dB to 15-45 dB.
- The max current that Navsight-S rev. 2 can provide to antennas LNA changes from 200 mA to 150 mA per antenna.
- Full benefit of new band plan requires adapted antennas matching the new constellations and signal bands. Antenna models recommended by SBG Systems for the previous hardware revision remains fully compatible.

2.5. Correction services

Navsight-S supports only MARINESTAR™ correction service. Other correction services supported in the Navsight-T variant are no longer supported.

3. New commercial offer

3.1. Old product code & part numbers equivalence table

The product part numbers are replaced as described in the following table.

P/N	Product Name	Hardware rev.	New P/N	New Product Name	Hardware rev.
100-1920	NAVSIGHT-S Rugged - Land Air INS - GNSS RTK	1	100-2730	NAVSIGHT-S Rugged - Land Air INS - GNSS RTK	2
100-1922	NAVSIGHT-S Rugged - Marine INS - GNSS RTK	1	100-2735	NAVSIGHT-S Rugged - Marine INS - GNSS RTK	2
100-1924	NAVSIGHT-S Rack - Land Air INS - GNSS RTK	1	100-2733	NAVSIGHT-S Rack - Land Air INS - GNSS RTK	2
100-1926	NAVSIGHT-S Rack - Marine INS - GNSS RTK	1	100-2780	NAVSIGHT-S Rack - Marine INS - GNSS RTK	2
100-1928	NAVSIGHT-S OEM - INS - GNSS RTK	1	100-2731	NAVSIGHT-S OEM - INS - GNSS RTK	2
100-1930	NAVSIGHT-S OEM Micro - INS - GNSS RTK	1	100-2732	NAVSIGHT-S OEM Micro - INS - GNSS RTK	2
100-1908	NAVSIGHT-T Rugged - Land Air INS - GNSS RTK	1	EOL with replacement by equivalent Navsight-S versions (see above)		
100-1909	NAVSIGHT-T Rugged - Marine INS - GNSS RTK	1			
100-1911	NAVSIGHT-T Rack - Land Air INS - GNSS RTK	1			
100-1914	NAVSIGHT-T Rack - Marine INS - GNSS RTK	1			
100-1916	NAVSIGHT-T OEM - INS - GNSS RTK	1			
100-1918	NAVSIGHT-T OEM Micro - INS - GNSS RTK	1			
100-1898	NAVSIGHT-E Rugged - Marine MRU	1	EOL MRU function can be performed by form-fit-function equivalent Navsight-S INS versions (see above)		
100-1901	NAVSIGHT-E Rack - Marine MRU	1			
100-1905	NAVSIGHT-E OEM Micro - Marine MRU	1			
100-1903	NAVSIGHT-E OEM - Marine MRU	1			
100-1906	NAVSIGHT-E OEM Micro - INS	1			
100-1904	NAVSIGHT-E OEM - INS	1			

3.2. Hardware revision 1 EOL announcement

Please contact your sales representative if you need to purchase V1 hardware.



Note: This EOL has a short notice, as the new hardware is compatible with the previous one and does not require specific re-qualification.

- Last buy order for rev. 1 hardware will be on March 31st 2023.
Note that despite SBG Systems best efforts, following supply chain constraints, specific part numbers may be in shortage before that date.
- Last shipment for rev. 1 hardware will be on April 30th 2023
- End of support for rev. 1 hardware will be on April 30th 2025

3.3. New hardware revision availability

The new hardware is available to order with a 4 weeks lead time.

4. Sales contact

If you need any further information after reading this document, please contact us by email or phone.

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