

# NGNS07 GPS host system

by  SkyDec

The NGNS07 military GPS system is probably as rugged as military navigation data distribution units get. The system is designed to provide reliable and accurate GPS and time data on army vehicles, helicopters and small naval vessels. Originally designed for submarines, the system is built to perform under rough and challenging physical circumstances, taking up as little space as possible, whilst supplying a limited amount of systems on board with reliable GPS data. Especially on the forefront of the battlefield there is no need for a surplus of ballast and capabilities. It is effectiveness that counts and which outweighs versatility, and being effective under any conditions is exactly where the NGNS07 by SkyDec exceeds in.

- Small naval vessels / army vehicles
- SAASM GPS
- Small and extremely ruggedized



Despite its compact and rugged design, the NGNS07 can be equipped with SAASM enabled GPS and when so, it will have precise Positioning Service and advanced capability on counter jamming or other interferences. This compact and versatile GPS system is able to provide GPS position, (HQIIA) time and navigation data using standard or even customized outputs if necessary. Considering the application of the system, it goes without saying that the system is optionally able to output a missile or ammunition interface. The NGNS07 runs on the same generation PCB's and software we developed for all our GPS host systems, which makes the system surprisingly flexible, for example concerning future upgrades or the switch-over to M-code, and low maintenance.

The NGNS07 is designed to be of value in a great variation of vehicles, aircrafts and small naval vessels, which causes the need for the ability to house a relevant set of GPS receivers. Therefore the NGNS07 can be fitted with the Polaris Link and MPE-S by Rockwell Collins, the Timble F22E and SkyDec's own OEM GPS board. The system cabinet can be regarded as a line-replaceable unit, which makes keeping loose spare parts redundant. A couple of rotating systems in stock is more than enough, also due to the fact that the system is a military off-the-shelf product and can be supplied within a vitally short lead-time.

SkyDec engineers went through extra lengths to ensure that the NGNS07 system is as rugged as a military GPS system can be. It is extremely robust and its capability to resist extreme shock and climate conditions is meant to exceed the highest demands set in modern military organizations. Please consult the specification overview for detailed information concerning the specific test results and met military standards.

The SkyDec NGNS series are selected by numerous customers, including the Royal British Navy, Royal Danish Navy, Royal Dutch Navy, Royal Norwegian Navy, Royal Spanish Navy, Portuguese Navy and Turkish Navy.

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Check our website for an extensive overview of our assortment!

## Specifications

Dimensions (WxHxD)	: 5" x 2,2" x 9,5" 127 mm x 54,2 mm x 242 mm
Weight	: ± 2,1 kg
Power	: 18 to 36 VDC
Power Consumption	: < 5 Watt
Outputs	: 2 NMEA RS-422 (Sentence available: GGA, VTG, GLL, ZDA, GSV & GSA) 1 HQIIA output (RS-422 or TTL) 1PPS output (according to ICD-60A) Missile interface (ICD 153C) (Optional) Proprietary messages
Position Accuracy	: Receiver dependent

## Connectors

Antenna Connector	: SMA
Data Connector	: MIL-C 22 pole (f) - Type: Mil-C 38999 II, MS27474 T 12F35P MIL-C 3 pole (m) - Type: Mil-C 38999 II, MS27474 T 8F98P
Key Loader	: KOI-18 or KEK-13



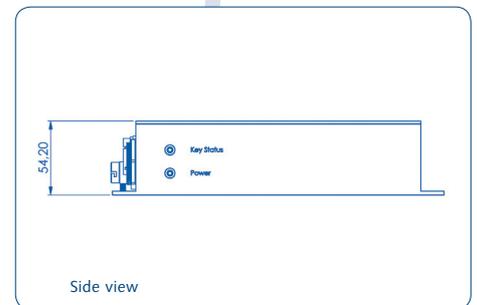
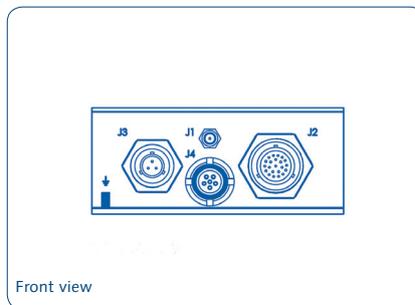
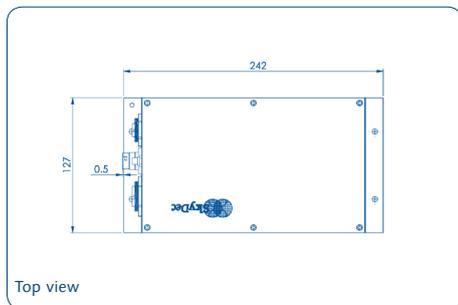
Enclosure	: IP56
Operational Temperature	: -20 to 70°C
Storage Temperature	: -20 to 85°C
Operational Humidity	: ≤ 55°C 93% non condensing, ≤ 85°C 85% non condensing
EMC	: According to VG 95373

## Receivers

Optional SAASM Receivers	: Rockwell Collins MPE-S
Optional Non SAASM Receivers	: Skydec OEM Receiver
Lever Arm Controlled Position	: Yes, Heading/Roll/Pitch input required

## Shock, Environmental and EMC

Shock	: Profile according to BR3021 and STANAG 4137 Shock Grade D level 2 ,Grade C level 2 and Grade B level 1. Half sine 581g in 1,6ms Square wave 170g in 6,2ms
Vibration	: According to IEC 68-2-6 Resonance search sine sweep vibration Profile 4Hz – 100Hz 1 g peak acceleration According to MIL STD 810 F Random vibration Used Figure 514.5C-15 Shipboard random vibration exposure Profile 1Hz – 100Hz 0,001 g2/Hz 2 hours per direction



*Please contact us for more information about the NGNS07 GPS host system. We can provide you with all additional relevant specifications, test results and, if desired, a specific offer.*