



## Technical Specification

### Performance

Frequency:	L1/L2 dual frequency tracking (C/A, P(Y) Code)
Acquisition Times:	< 10 sec (hot start), (probability > 95%) < 70 sec (warm start), (probability > 95%)
Positioning Accuracy:	DGPS: < 4m (NATO 95%) WAGE: < 8m (NATO 95%) PPS: < 21m (NATO 95%) (< 3m typical)
Velocity Accuracy:	0.4 m/sec steady rate (3D 95%)
GPS Time Accuracy:	< 100 nanoseconds (typical)

### Connectivity

Outputs:	20 x RS-232/RS-422 Serial Ports 10 x Ethernet 2 x STANAG 4156 (NATO SINS) 2 x I PPS Out 2 x I PPM Out 2 x Havequick 2 x BCD 1 x Time Mark
Serial Output Message Formats:	NMEA, NEC, Legacy
Aiding Inputs:	2 x Synchro (Log, Heading) 2 x STANAG 4156 (NATO SINS) 1 x RS-422 SDDS 1 x RS-422 RTCM 194-93/SC104 Differential GPS Correction Data 1 x I PPS In 1 x 5MHZ In 1 x Crypto (DS-102)
Aiding Message Formats:	PDM2/3/4/5, PIDS, Synchro 36, 48, 64, 72, 96 kn/rev

### System

Dimensions (H x W x D):	258 x 342 x 388 mm
Weight:	21.1 Kg
Power Consumption:	< 50W
Operating Temperature:	-15° to +55° C
Battery Backup:	3 hours with all interfaces followed by 3 hours standalone
Security:	CESG accredited for all platform classes GPS receiver unclassified when keyed Receiver zeroise and system sanitise function

### Compliance

EMC Compliance:	DEF STAN 59-411, IEC 60945
Environmental:	DEF STAN 00-35, IEC 60945
IMO Compliance:	EN 61108 IMO Compliant
Shock:	DEF STAN 08-120 (NES 814), BR8470 100% Grade D

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