



01 / CAPABILITY OVERVIEW

ADVANS VEGA

Inertial navigation system with global positioning system ADVANS VEGA



FIG 01 PRODUCT CONFIGURATION

4.5 kg

WEIGHT

12 to 32 VDC

POWER INPUT RANGE

< 500 g

GPS WEIGHT

**0.5 mils rms x
secant lat**

HEADING ACCURACY

01.1 / OVERVIEW

An inertial navigation system that provides continuous, instant-on position and orientation for 155 mm howitzers, with 0.5 mils rms heading accuracy and 0.2 mils rms roll and pitch accuracy, mountable in any orientation and paired with a GPS receiver accurate to under 0.5 m in DGPS mode.

TYPE

Other equipment

PROCUREMENT AND COMPLIANCE

Supply is exclusively for government and institutional end-users. Availability is subject to destination screening, a state-issued export licence and a verified End-User Certificate.



02 / TECHNICAL SPECIFICATION

TECHNICAL DATA

ADVANS VEGA / TECHNICAL EQUIPMENT

PERFORMANCE

Power input range	12 to 32 VDC
Operation temperature range	-40°C to 60°C
Storage temperature range	-46°C to 80°C

INTERFACES AND OPERATION

Power consumption	< 18 W, no cooling required
GPS operation / reaction time	< 3 minutes
GPS power supply source	9 to 36 V DC
GPS power consumption	2 W

PHYSICAL DATA

Weight	4.5 kg
GPS dimensions	Diameter < 140 mm
GPS weight	< 500 g



TECHNICAL DATA

ADVANS VEGA / TECHNICAL EQUIPMENT

ADDITIONAL TECHNICAL DATA

Heading accuracy	0.5 mils rms x secant lat
Roll & pitch accuracy	0.2 mils rms
Set-up time static	< 5 min
Set-up time dynamic	< 10 min
Size (L x W x H)	180 x 180 x 160 mm
Input / output formats	RS232/422
Ethernet	TCP/UDP
GPS input	NMEA
Update rate	Up to 200 Hz
MTBF	Up to 100,000 hours
Angular rates	> 200 °/s
Vibration	MIL STD 810
Shocks	30 g, 10 ms
EMC	MIL STD 461
Orientation	Can be mounted in any orientation
Roll and pitch	No limitation
GPS accuracy	< 0.5 m 95% in DGPS mode (SBAS); < 2.5 m 95% in autonomous mode