

Venari Ruggedized GNSS Device DATASHEET



Part Number

NWT-GPS-USB-OAS-02

Product Description

Industrial Outdoor IP67 Rated GPS, 2m Stainless Steel Armored USB, 13/16-28UN Threaded Weatherproof USB (Male) Connector, Rigid ASA Plastic Housing, 72 Channel All-In-View Tracking, uBlox M8 Chipset, WAAS / EGNOS Support

Product Overview

Industrial Armored Outdoor GPS Receiver that features a highly sensitive, low power consumption chipset in an ultra compact outdoor form factor. Powered by a uBlox M8 Chipset, and will provide you with superior performance in urban canyons, and in dense foliage. Will deliver a hot-start time of less than 1 second under most conditions without any network assistance.

AWG	Stranding	Material	No of Pairs
28	7 x .127	TC - Tinned Copper	1
Conductor Count		4	
Total Number of Pairs		2	
Conductor Size		28AWG 1 Twisted Pr, 24 AWG 2C 7x.2 Stranded TC	
Insulation Material		PO - Polyolefin	
Bonded-Pair		No	

OUTER SHIELD MATERIAL

Type	Material	Coverage (%)	Drainwire Material	Drainwire AWG	Drainwire Construction (n x D)
Tape	Aluminum/ Mylar	100	Tinned Copper	28	7 x .127

INNER JACKET MATERIAL

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord	Separator Material
Industrial Grade PVC - Polyvinyl Chloride	0.45mm	0.8mm	No	Polyester

ENVIRONMENT

Input Power Range	4.5V-6.5V DC
Current. Draw	50mA typical
USB Compliance	Universal Serial Bus 2.0
Frequency	1575.42 to 2100Mhz (L1,B1,E1)
C/A Code	1.023 Mhz chip rate
Sensitivity	-160dBm
Accuracy	2m, 2D RMS, WAAS enabled, 0.3° heading, 0.05m/sec velocity
Aquisition	1sec Hot Start, 26Sec Cold Start
Connector type	USB Male, 13/16-28UN Threaded IP67 Watertight Assembly
UL Voltage Rating (Cable)	30V RMS
Altitude Limit	18,000M
Velocity Limit	1,900km/h
Acceleration Limit	Less than 4g

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TEMPERATURE RANGE

Installation Temp Range	-40°C To +85°C
Operating Temp Range	-40°C To +125°C

MECHANICAL CHARACTERISTICS

Dimension	88mm X 79mm X 35mm
Weight	0.35kg
Mounting Pipe Diameter	25mm - 64mm
USB Cable Length	2M

MECHANICAL CHARACTERISTICS (OUTER CABLE ARMOR)

Dimension	88mm X 79mm X 35mm
Weight	0.35kg
Mounting Pipe Diameter	25mm - 64mm
USB Cable Length	2M

STANDARDS

GPS Standards	NMEA 0183, WAAS, Egnos
RoHS Compliant	Yes
UL Type	CM
CSA Standards	FT4
Derating	Operating temperatures are subject to de-rating. Cable passes -40°C Cold Bend per UL 1581

SUITABILITY

Indoor	No
Oil Resistance	Yes
Outdoor/Sunlight Exposure (UV)	Yes
Plenum	No
Direct Burial	No

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