

# Venari GPS

## PRODUCT SHEET



### Part Number

NWT-GPS-USB-M8-OAS-02

### Product Description

Industrial Outdoor IP67 Rated GPS, 2m Stainless Steel Armored USB, M8 Male USB IP67 Watertight Assembly, Rigid ASA Plastic Housing, 72 Channel All-In-View Tracking, u-blox 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 u-blox M8 Chipset, and will provide you with superior performance in urban canyons, and in dense foliage. CGEE-start time of less than 15 seconds under most conditions without any network assistance.

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

<b>Input Power Range</b>	4.5V-6.5V DC
<b>Current. Draw</b>	60mA typical, 100mA max
<b>USB Compliance</b>	Universal Serial Bus 2.0
<b>Frequency</b>	72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L10F BeiDou B1, Galileo E1B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
<b>C/A Code</b>	1.023 Mhz chip rate
<b>Sensitivity</b>	-167dBm Tracking & Nav, -160dBm Reacquisition -148dBm cold start
<b>Accuracy</b>	2.0M CEP
<b>Aquisition</b>	8sec avg hot start, 26sec cold start, 1sec hot start
<b>Connector type</b>	M8 Male USB IP67 Watertight Assembly
<b>UL Voltage Rating (Cable)</b>	30V RMS
<b>Altitude Limit</b>	18,000M
<b>Velocity Limit</b>	515M/sec
<b>Acceleration Limit</b>	Less than 4g

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### TEMPERATURE RANGE

<b>Installation Temp Range</b>	-40°C To +85°C
<b>UL Temp Rating</b>	85°C
<b>Operating Temp Range</b>	-40°C To +85°C

### MECHANICAL CHARACTERISTICS

<b>Dimension</b>	88mm X 79mm X 35mm
<b>Weight</b>	0.35kg
<b>Mounting Pipe Diameter</b>	25mm - 64mm

### MECHANICAL CHARACTERISTICS (OUTER CABLE ARMOR)

<b>Outside Diameter</b>	88mm X 79mm X 35mm
<b>USB Cable Length</b>	2M
<b>Jacket Material</b>	Black PVC
<b>Armor Material</b>	304 Stainless Steel

### STANDARDS

<b>GPS Standards</b>	NMEA 0183, WAAS, EGNOS, MSAS, QZSS, GAGAN, IMES
<b>RoHS Compliant</b>	Yes
<b>UL Type</b>	CM
<b>CSA Standards</b>	FT4
<b>Derating</b>	Operating temperatures are subject to de-rating. Cable passes -40°C Cold Bend per UL 1581

### SUITABILITY

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

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