

Industrial Outdoor IP67 Rated GPS

Rugged, Weatherized Industrial Armored Outdoor GPS Receiver

Rajant Kinetic Mesh® technology powers the Industrial Outdoor IP67 Rated GPS. This GPS comes with a 2m stainless steel armored USB cable, 13/16-28UN threaded weatherproof USB (male) connector, rigid ASA plastic housing, 48 channel all-in-view tracking, SiRF Star IV Chipset, and WAAS/EGNOS Support.

Industrial Outdoor IP67 Rated GPS Key Features

- GPS provides superior performance in rugged and challenging areas like urban canyons and dense foliage
- IP67 rated rigid ASA plastic housing is designed to withstand immersion in up to a meter of water for a half-hour
- Features a highly sensitive, low power consumption chipset
- Temperature Range:
 - o Installation Temp Range: -40°C To +75°C
 - o UL Temp Rating: 75° C
 - o Operating Temp Range: -40°C To +75°C

Ensure Superior Performance in Challenging Conditions

Designed to fill a niche for rugged weatherization under the harshest conditions, the Industrial Armored Outdoor GPS Module comes in an IP67 rated rigid ASA plastic housing designed to withstand immersion in up to a meter of water for a half-hour. It is dust resistant and can last for years in harsh conditions. The USB cable is protected by stainless steel armoring, and is capped with a 13/16-28UN threaded weatherproof (male) connector.

Powering Industrial Grade Wireless Solutions

The Industrial Armored Outdoor GPS Receiver features a highly sensitive, low power consumption chipset in an ultra-compact outdoor form factor. Powered by a SiRF Star IV GPS chipset, it provides superior performance in areas like urban canyons and dense foliage.

With SiRF CGEE (Client Generated Extended Ephemeris) technology, this GPS receiver has the capability of predicting satellite positions for up to three days in advance and will deliver a CGEE-start time of fewer than 15 seconds under most conditions without any network assistance.



The GPS's IP67 rated rigid ASA plastic housing can withstand immersion in up to a meter of water for a half-hour.

The Industrial Outdoor IP67 Rated GPS has been designed to fill a niche for rugged weatherization under the harshest conditions.

Model	Description
01-000028-007	Industrial Outdoor IP67 Rated GPS with a 2m stainless steel armored USB cable, 13/16-28UN threaded weatherproof USB (male) connector, rigid ASA plastic housing, 48 channel all-in-view tracking, SiRF Star IV Chipset, and WAAS/EGNOS Support.

GPS Receiver	
GPS Chipset	SiRF Star IV
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	48
Sensitivity	-159 dBm
Accuracy	5 m 2D RMS WAAS enabled
Acquisition Rate	8 s avg. hot start; 45 s avg. cold start
Altitude Limit	18,000 m
Velocity Limit	515 m/s
Acceleration Limit	Less than 4g
USB Compliance	Universal Serial Bus 2.0
Input Voltage	4.5-6.5 VDC
Current Draw	50 mA (typical)

USB Cable	
Number of Conductors	4
Data Conductors	28 AWG, 2-conductor, stranded (7x0.127 mm) (nxD), tinned copper, twisted-pair
Power Conductors	24 AWG, 2-conductor, stranded (7x0.2 mm) (nxD), tinned copper
Outer Shield	Tape, aluminum/mylar
Drain Wire	28 AWG, stranded (7x0.127 mm) (nxD), tinned copper
Inner Jacket	Industrial Grade PVC, 0.45 mm nominal diameter, 0.8 mm nominal wall thickness, polyester separator
UL Voltage Rating	30 V RMS
Connector Type	USB male, 13/16-28UN threaded, IP67 assembly

Cable Armor

Armor Outside Diameter	8 mm
Armor Inside Material	Interlocked 304 stainless steel conduit
Armor Outside Material	Black PVC

Physical

Dimensions	88 mm X 79 mm X 35 mm
Weight	0.35 kg
Mounting Pipe Diameter	25–64 mm
USB Cable Length	2 m
Ingress Protection	Designed for IP67 (6: Dust-tight, 7: Waterproof)

Standards and Compliance

GPS Standards	NMEA 0183, WAAS, Egnos
RoHS Compliant	Yes
UL Type	CM
CSA Standards	FT4
Derating	Operating temperatures are subject to length derating. Cable passes -40 °C cold bend per UL 1581.