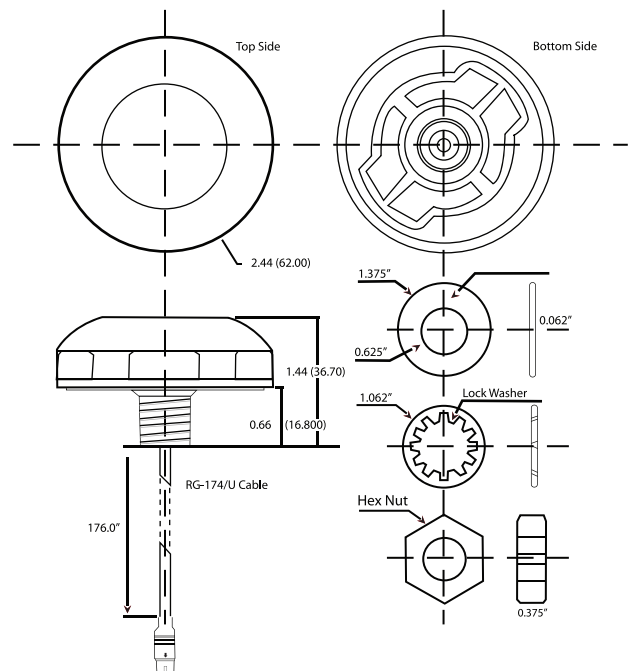# MR-350PS4

GPS Receiver

- SiRF Star IV Chipset
- 48-Channel All-In-View Tracking
- NMEA 0183 GPS Protocol
- WAAS/ EGNOS Support
- 2.44" x 0.82"(Exposed Housing)
- USB or RS232 Interface Cable Sets Available
- IPX7 Rated Water Resistant Design

The MR-350PS4 is a SiRF IV "mini" external GPS receiver, which utilizes a bulkhead (through-hole) mounting design for applications that require a more permanent weatherproof mounting solution. The enclosed GPS receiver is self-contained with an active patch antenna and utilizes the latest 48-channel SiRF Star IV high performance GPS chipset for accurate positioning.

The extended 14.75' cable allows for easy routing behind the headliner and side panels, terminating into a proprietary pin-out on a PS/2 connector for easy interface with your host device when using our USB or RS232 cable sets. (Cable sets are sold separately). The MR-350PS4 can be used in a wide variety of applications including commercial fleet/utility vehicles, police and fire trucks, boats and specialty equipment.

Performance Specifications

General...L1 (1575.42MHz) frequency C/A code
48 channel all-in-view-tracking receiver
Accuracy...5 meters 2D RMS (WAAS enabled)
10 meters, 2D RMS, (WAAS disabled)
Acquisition...Reacquisition: 0.1 sec. average
hot start: 1 sec., average
warm start: 35 sec., average
cold start: 35 sec., average

Protocol

PPS output..................1uS(microsecond) pulse every second at 2.85v with 3D GPS Fix
GPS Protocol...Default: NMEA 0183 (Secondary: SiRF binary)
GPS Output Data...SiRF binary >> position, velocity, altitude,
status and control NMEA 0183 MEA0183 V2.2 protocol
Software command setting
GPS transfer rate...(Default :4800,n,8,1 for NMEA)
Connection...Requires Optional Cable Set
USB: #BR305-USB8
RS232: #BR305-RS232

Electrical Characteristics

Prime Power...4.5V - 6.5V DC Input (USB or PS/2)
Power Consumption...80mA

Environmental Specifications

Operation Temperature...-40°~ 185°F (-40°~ 85°C)

Physical Characteristics

Enclosure..Durable Polycarbonate
Housing Dimensions...2.44"x0.82" (exposed housing)
(62mm x 21mm)
Cable Length..177" (terminates to PS/2)
(4,496mm)
Weight...4.4oz(173.74 grams)

PACKAGE CONTENTS:
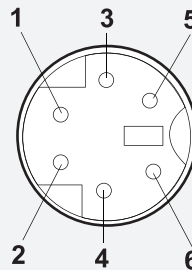
PS/2 Mini DIN 6-Pin Male Connector

Color	Function	Pin
Black	GND	1
Red	VCC	2
Yellow	PPS	3
White	RX	4
Green	TX	5
--------	N/C	6

Optional Cable Set Adapters
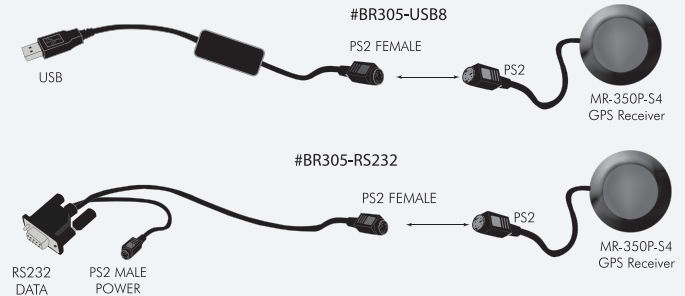
#BR305-USB8
PS2 FEMALE
USB
PS2
MR-350P-S4
GPS Receiver

#BR305-RS232
PS2 FEMALE
PS2
RS232 DATA
PS2 MALE POWER
MR-350P-S4
GPS Receiver

ADAPTERS
48 CHANNEL
WIN
SERIAL
SiRF IV
MAC

Canada 210

MR-350P-S4
Made in Taiwan
GLOBALSAT TECHNOLOGY CORPORATION

MR350PS4-DS06122013A