

XF102 DGPS Receiver

Superior accuracy for handheld mapping



Hemisphere GPS XF100™ Series DGPS Receivers for ruggedized handheld computers provide superior accuracy and performance. The XF102™ is designed specifically for the TDS Nomad™ (not included). The rugged Compact Flash adapter and smart antenna module simplify field use even in the most demanding environments.

Key XF102 Advantages

- Crescent® GPS technology for superior sub-meter accuracy
- Optional external antenna for additional accuracy
- COAST™ technology maintains accurate solutions for 40 minutes or more after loss of differential signal
- Exclusive e-Dif® extended differential option available
- Fully integrated, robust design matched to the host handheld PC
- Easy to use - just connect to handheld and go
- Low power consumption conserves handheld battery power

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GPS Sensor Specifications

Receiver Type: L1 (C/A), with carrier phase smoothing
Channels: 12-channel parallel tracking (10-channel when tracking SBAS)

SBAS Tracking: 2-channel, parallel tracking
Update Rate: 1 Hz

Horizontal Accuracy: <0.4 m RMS confidence (DGPS)*
<1.8 m RMS (autonomous, no SA)*
<0.3 m RMS (DGPS, external antenna)*

Cold Start: 60 s (no almanac or RTC)
Warm Start Time: 45 s (valid almanac, no RTC)
Hot Start Time: 20 s typical (valid almanac, RTC and two hours since last fix)

Reacquisition: <1 s

Communications

Serial Ports: Single port through built-in Compact Flash adaptor

Environmental

Operating Temperature: -30°C to +60°C (-22°F to +140°F)
Storage Temperature: -40°C to +70°C (-40°F to +158°F)
Humidity: MIL-STD-810 F, Method 507.4

Power

Powered by handheld device through built-in Compact Flash adaptor

Mechanical

Dimensions: 101 L x 97 W x 35 H mm
(4.0 L x 3.8 W x 1.4 H inches)
Weight: 300 g (<10.6 oz)
Status Indication (LED): 1 LED indicating power
Antenna Connector: SMB, female



Authorized Distributor:



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* Depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity

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