

XF102 DGPS Receiver

Superior accuracy for handheld mapping



XF102

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.



Powered by **Crescent**

The latest Hemisphere GPS products are powered by Crescent Receiver Technology, the future of precision GPS.

Key XF102 Advantages

- Crescent® GPS technology for superior sub-meter accuracy
- Optional external antenna for additional accuracy
- COAST™ Technology maintains accuracy during temporary 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 confidence (autonomous, no SA)*
< 0.3 m RMS confidence (DGPS, external antenna)*

Cold Start: 60 s (no almanac or RTC)
Warm Start Time 1: 45 s (valid almanac, no RTC)
Warm Start Time 2: 35 s (valid almanac and RTC)
Hot Start Time: 20 s typical (valid almanac, RTC and two hours since last fix)
Reacquisition: <1 s

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

Environmental

Operating Temperature: -30°C to +60°C (-25°F to +140°F)
Storage Temperature: -40°C to +70°C (-40°F to +158°F)
Humidity: MIL-STD-810 F, Method 507.4

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



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