

XF100 DGPS Receiver

Superior accuracy for handheld mapping



XF100

Hemisphere GPS XF100 series DGPS receivers for ruggedized handheld computers provide superior accuracy and performance. The XF100 is designed specifically for the TDS Recon™ (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 XF100 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:	0.8 rms (1.5 m 95% confidence) DGPS* 2.0 rms (4 m 95% confidence) (autonomous, no SA)*
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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