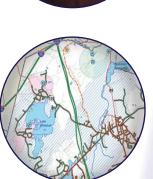


# **XF101 DGPS Receiver** Superior accuracy for handheld mapping













XF101

Hemisphere GPS XF100 series DGPS receivers for ruggedized handheld computers provide superior accuracy and performance. The XF101 is designed specifically for the Juniper Archer Field PC™ (not included). The rugged Compact Flash adapter and smart antenna module simplify field use even in the most demanding environments.



### **Key XF101 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<sup>®</sup> 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



## XF101 DGPS Receiver

#### **GPS Sensor Specifications**

ReceiverType: 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

#### **Environmental**

Operating Temperature:  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  ( $-25^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$ )
Storage Temperature:  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+158^{\circ}\text{F}$ )
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

Authorized Distribu	ıtor:	

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<sup>\*</sup> Depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity