

Crescent XF100 Series DGPS Receivers

Superior Accuracy for Handheld Mapping

PRELIMINARY

The new Crescent XF100 series DGPS receivers for ruggedized handheld computers provide superior accuracy and performance. Use the XF100 with the TDS Recon™ (shown in grey) and XF101 with the Juniper Archer Field PC™ (shown in orange). The rugged Compact Flash adapter and smart antenna module simplify field use even in the most demanding environments.



*** AVAILABLE FALL 2007 ***

Key Crescent XF100 Series Advantages

- Crescent GPS technology now available for handheld mapping for superior sub-meter accuracy
- Optional external antenna for additional accuracy
- Exclusive e-Dif is optional
- COAST Technology is standard to maintain accuracy during temporary loss of differential signal
- 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

GPS Sensor Specifications

Receiver Type: L1, C/A code, 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:

< 0.5m rms (1 m 95% confidence) (DGPS)*

< 1.5m rms (3 m 95% confidence) (autonomous, no SA)*

Cold Start: 60 s (no almanac or RTC)

Warm Start 1: 45 s (valid almanac, no RTC)

Warm Start 2: 35 s (valid almanac and RTC)

Hot Start: 20 s (valid almanac, RTC and 2 hours since last fix)

Reacquisition: < 1 s

Environmental

Operating Temperature: -30°C to +60°C

Storage Temperature: -40°C to +70°C

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 in)

GPS System Weight: 300 g (10.6 oz)

Status Indication: 1 LED indicating power

Antenna Connector: BNC, female

All specifications are subject to change prior to release.

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

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