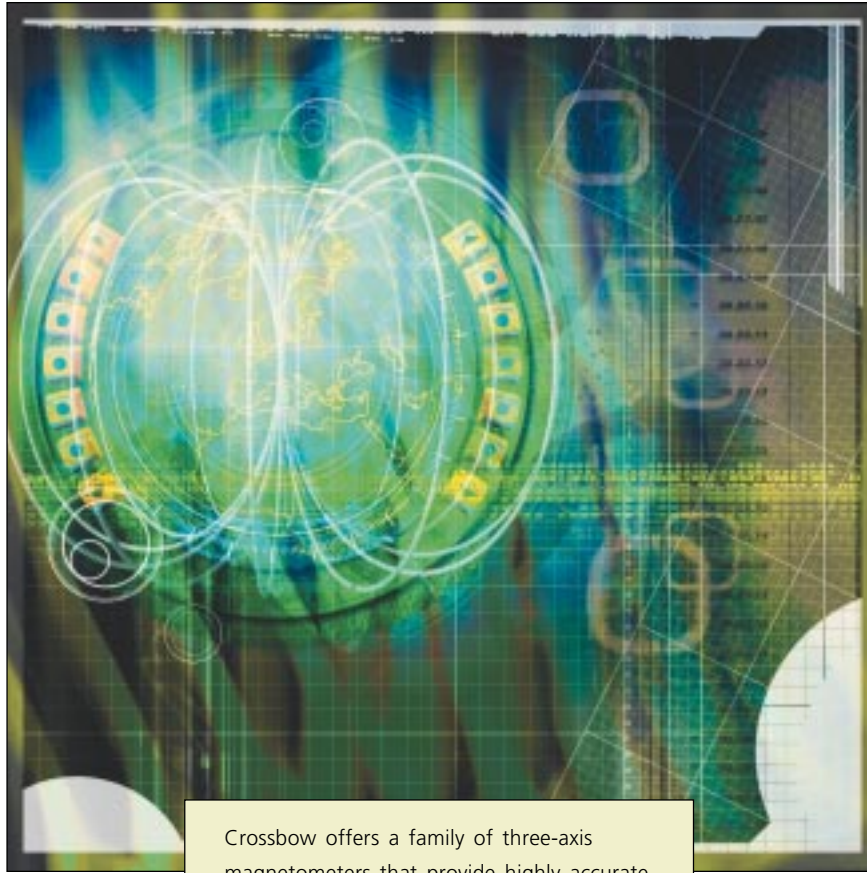
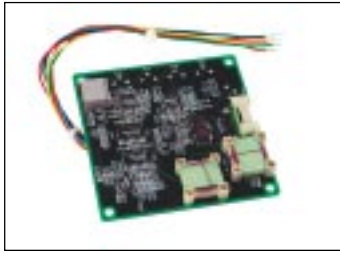


# MAGNETOMETERS



Crossbow offers a family of three-axis magnetometers that provide highly accurate sensing through all orientations. They are field-proven performers in a wide range of applications including magnetic compassing on land or sea, vehicle orientation, borehole logging and directional drilling, laboratory measurements, magnetic/gravity field measurements, and materials testing.

- Towed Sonar Arrays
- OEM Magnetometers
- Digital Compassing
- Orientation Sensors
- Directional Drilling
- Remote Magnetometers for Inertial Systems



## CXM113

### ANALOG 3-AXIS MAGNETOMETER

This analog output magnetometer is a fully signal conditioned fluxgate sensor with electronics. High level analog outputs offer easy interface to A/D converters and other data acquisition systems. Intended for OEM applications, the board can be customized for specific packaging requirements.



## CXM539

### DIGITAL 3-AXIS MAGNETOMETER

As a stand-alone magnetic measurement device, the CXM539 is a fully self-contained high-speed digital magnetometer with RS-232 output. The device employs three  $\pm 1$  Gauss full scale fluxgate magnetometers, three 16-bit A/D sigma delta converters, and a micro-controller. The unit provides output data in engineering units (Gauss).



## CXM543

### HIGH SPEED DIGITAL ORIENTATION SENSOR

The CXM543 sensor is designed to measure the 3-axis orientation of a platform or vehicle to which it is attached. The CXM543 determines inclination and roll angles using a 3-axis accelerometer to measure the direction of earth's gravity. The azimuth angle is determined by measuring the earth's magnetic field using a 3-axis magnetometer subsystem.



## CXM544

### MICRO ORIENTATION SENSOR

The CXM544 sensor detects the earth's magnetic field using a 3-axis magnetometer. The sensor computes a continuous measure of orientation using the 3-axis accelerometer as a gravitational field reference. The product uses the SoftSensor® architecture to compensate for temperature drift, alignment, and other errors. The CXM544 finds application in oil well logging, marine systems, and magnetic compassing.



## CHS110

### TOWED SONAR ARRAY HEADING SENSOR

The CHS110 Sensor is a specialized product designed specifically for towed sonar array applications. It is small, low power and designed to replace traditional compass solutions. Unlike compass solutions, there is no floating gimbal in the CHS110 and no moving parts. The unit has been tested in latitudes as high as 85 degrees.

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传真：0755-83376182 (0) 13902971329 MSN: [SUNS8888@hotmail.com](mailto:SUNS8888@hotmail.com)

邮编：518033 E-mail:[szss20@163.com](mailto:szss20@163.com) QQ: 195847376

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西安分公司：西安高新开发区 20 所(中国电子科技集团导航技术研究所)

西安劳动南路 88 号电子商城二楼 D23 号

TEL: 029-81022619 13072977981 FAX:029-88789382