Home
Compass Products
IBPS Evaluation Kits
IBPS Chargers & Converters
IBPS Battery Packs
IBPS Battery Backplanes
IBPS Power Supplies
IBPS Cables
IBPS Product Sheet PDF
IBPS Accessories
Iver2 AUV
Show Order
Privacy Policy
Info
Search
Index

OceanServer TECHNOLOGY, INC **Online Store**

OS4000–T Nano Compass (TTL)

The OS4000-T is a nano size (0.6" x 0.6") three axis, tilt compensated digital compass. The compass is connected via TTL only. The OS4000-T provides precise heading, roll and pitch data ideal for rapid attitude measurement. The OS4000-T offers an easy to use ASCII interface which includes hard and soft iron compensation and simple data configuration for your application.

Important note: the OS4000-T is a through hole package intended for volume applications where it will be mounted directly on a user's system board. First time users should purchase the evaluation kit which includes the OS4000-M Translator/Carrier Board (includes connectors for USB or RS-232). The -M board is offered in the OS4000-T evaluation kits so users have a quick reference on how to hook up the module and create the holes in the user design to mount the OS4000-T. The OS4000-M is only for initial development and debug. The evaluation kit includes a user CD with the schematics and layout in the Eagle format.

Visit OceanServer's main website to download the user guide, mechanical drawings, 3D Models and software tools: www.ocean-server.com/download.html

> Ultra Low Cost Design

> Nano size, 0.6" x 0.6"; weighs 1 gram

> Precision compass accuracy, 0.5 deg RMS Level Heading, 1° Typical RMS accuracy < ± 30°, 1.5° < ±60°, .1 Degree Resolution

> Roll & Pitch full rotation operation

> Typical 1° accuracy < ± 30° tilt

> Tilt-compensated (electronically gimbaled)

> Low power consumption, <30ma @3.3V

> Hard and soft-iron compensation routines

> Serial Interface: TTL

> 50 MIPS processor supporting IEEE floating point math

> Baud rate programmable: 4,800 to 115,000 baud

> Rugged design (10,000 G shock survival)

> Operating temperature: -20C to 70C (Specified accuracy for 0C to 50C)

> ASCII sentence output in several formats; NMEA checksum

> High data update rate to 40HZ

> Support for True or Magnetic North output

> Precision components: 3 Axis magnetic sensors from Honeywell, 3 Axis accelerometers from ST Microelectronics, 24 bit differential Analog to Digital converters from Analog Devices

> Now RoHS Compliant

*** In Stock ~ (OEMs please contact sales@ocean-server.com for volume quotes) ***

OS4000T **$249.00, 10/$1,750.00, 25/$3,750.00** Order