

VN-200 GNSS/INS

Miniature, high-performance GNSS-Aided INS

Product Overview

The VN-200 is a miniature, high-performance GNSS-Aided Inertial Navigation System (GNSS/INS) that combines 3-axis gyros, accelerometers and magnetometers, a high-sensitivity GNSS receiver, and advanced Kalman filtering algorithms to provide optimal estimates of position, velocity and attitude.



Product Options

- ▶ **Packaging:** The VN-200 is available in two different packaging options: surface mount device (SMD) and aluminum-encased Rugged module. VectorNav offers Development Kits for each of these options, as well as a Breakout Board option for the SMD.
- ▶ **Calibration:** All VN-200 units are calibrated for bias, scale factor, misalignment and gyro g-sensitivity errors across the full temperature range of the sensor from -40°C to +85°C (Thermal Calibration). A Standard Calibration option is not offered for the VN-200.
- ▶ **Lead Times:** Typical lead times for each of the part numbers listed below in quantities of 1-9 units is 1-2 business days ARO.
- ▶ **Volume Discounts:** VectorNav offers discounted pricing on the VN-200 for orders of ten (10) or more units. Contact VectorNav to request volume pricing on any of the below listed part numbers.
- ▶ **Minimum Order Quantity (MOQ):** There is no Minimum Order Quantity for any VN-200 product option.
- ▶ **Purchase:** Each of the below listed VN-200 product options can be purchased directly from VectorNav via our online store (accessible by the red cart in the top right corner of every www.vectornav.com page; visible when signed in to your verified VectorNav account), by phone (+1-512-772-3615), or by issuing a Purchase Order via email (sales@vectornav.com) or fax (+1-512-772-3086), subject to VectorNav's Terms and Conditions of Sale (www.vectornav.com/terms-and-conditions-of-sale).

PRODUCT VARIATION	PART NUMBER	DESCRIPTION	QUANTITY	PRICE (USD)
VN-200 SMD	 VN-200T	VN-200 SMD, Thermal Calibration	1-9	\$2,700
VN-200 Rugged	 VN-200T-CR	VN-200 Rugged, Thermal Calibration	1-9	\$3,200
VN-200 SMD Dev Kit	 VN-200T-DEV	VN-200 SMD Development Kit, Thermal Calibration	1-9	\$3,100
VN-200 Rugged Dev Kit	 VN-200T-CR-DEV	VN-200 Rugged Development Kit, Thermal Calibration	1-9	\$3,500
VN-200 SMD Breakout Board	 VN-200T-BB	VN-200 SMD Soldered to Breakout Board, Thermal Calibration	1-9	\$2,850

VN-200 Development Kit Options

VN-200 SMD DEVELOPMENT KIT CONTENTS

- ▶ (1) Development Board with pre-installed VN-200 SMD
- ▶ (2) Coin Cell Batteries
- ▶ (2) Micro USB to USB Cables (2 & 3 m)
- ▶ DIP Stick
- ▶ (1) 1.8 (6 ft.) DB-9 Serial Cable
- ▶ User Manual & Quick Start Guide
- ▶ (1) GNSS Antenna
- ▶ Carrying Case



VN-200 RUGGED DEVELOPMENT KIT CONTENTS

- ▶ (1) VN-200 Rugged unit
- ▶ (1) RS-232 Serial Adapter Cable
- ▶ (1) USB Adapter Cable
- ▶ (1) GNSS Antenna
- ▶ Cable Connection Tool
- ▶ User Manual & Quick Start Guide
- ▶ Carrying Case



VN-200 Cabling & GNSS Antennas

- ▶ **Custom Interface Cables and GNSS Antennas:** The below list details interface cabling options for the VN-200 Rugged, as well as GNSS antenna options for the VN-200 SMD and VN-200 Rugged. Upon request, VectorNav can provide VN-200 Rugged custom interface cables of varying lengths and/or with certain pins broken out. VectorNav also carries limited stock of GNSS antennas of varying cable lengths. Prices and lead times on custom cables and GNSS antennas vary.
- ▶ **Connectors:** The VN-200 Rugged uses Harwin 10-pin locking connectors. The part numbers for these connectors are:
 - Harwin M80-5001042: male connector on the VN-200 Rugged
 - Harwin M80-4861005: female connector on the VN-200 Rugged interfacing cables

PRODUCT VARIATION	PART NUMBER	DESCRIPTION	QUANTITY	PRICE (USD)
VN-200 Rugged USB Cable	VN-C200-0310	VN-200 Rugged USB Adapter Cable	1+	\$125
VN-200 Rugged RS-232 Cable	VN-C200-0410	VN-200 Rugged Serial RS-232 Adapter Cable	1+	\$125
VN-200 Rugged Pigtail Cable	VN-C200-0611	VN-200 Rugged Pigtail Adapter Cable	1+	\$125
VN-200 GNSS Antenna	VN-C200-0510	VN-200 GNSS Antenna Tallysman™ 2712 (Tallysman™ 4422 available for SWaP-constrained applications)	1+	\$100

Payment, Export & Shipping

- ▶ VectorNav accepts payment by bank wire transfer and ACH (VectorNav's banking details available upon request), check or credit card (VISA, Mastercard & AMEX accepted).
- ▶ VectorNav requires Cash-In-Advance (CIA) payment for all first-time customers. Please provide VectorNav a copy of your credit references if you wish to apply for Net-30 terms.
- ▶ For local support, please see a full list of VectorNav's global representatives at www.vectornav.com/about/global-sales.
- ▶ VectorNav ships within the USA via UPS and FedEx, and internationally via DHL, UPS and FedEx.
- ▶ All VN-200 products ship with a Certificate of Conformance. Upon shipment VectorNav provides via email the invoice for the purchase and tracking number for the package.

10501 Markison Road, Dallas, TX 75238, USA | +1 512 772 3615 | sales@vectornav.com | vectornav.com