



## SIGMAD

for Duo-G2, Duo-G2D, Duo-G3D

We offer the multi-frequency satellite-based two-antenna system DELTAD in a small nice-looking durable watertight box. The system is based on our TRIUMPH Technology implemented in the TRIUMPH Chip and includes 216 channels of multi-frequency GPS, Galileo, and GLONASS. The dual-frequency code and carrier phase data from two antennas are processed to determine the heading angle and the RTK positions of the two antennas up to 50 times per second. DELTAD is a powerful and reliable receiver for high-precision navigation systems to be used in various applications, such as machine and traffic control, precision agriculture, etc.

SIGMAD receiver also includes TriPad (two LEDs, ON/OFF and function button), GSM/CDMA2000 module, UHF/VHF modem, and batteries. In addition, the receiver comes with large amount of flash for data storage. Two external power inputs secure the power system redundancy and eliminate system failure. The on-board power supply on SigmaQ receiver accepts any voltage from +10 to +30 volts and delivers clean filtered voltage where needed.



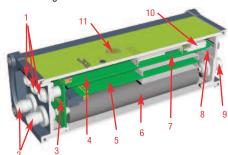
## SigmaD

## **Standard Configuration**

- GPS L1 (G2)
- GPS L1/L2/L2C (G2D and G3D)
- GLONASS L1/L2 (G3D only)
- Update rate 1 Hz
- RAIM
- TriPad interface
- RS232 serial port (460.8 kbps)
- · External GNSS Antenna TNC Female connector
- · Li-lon Battery pack

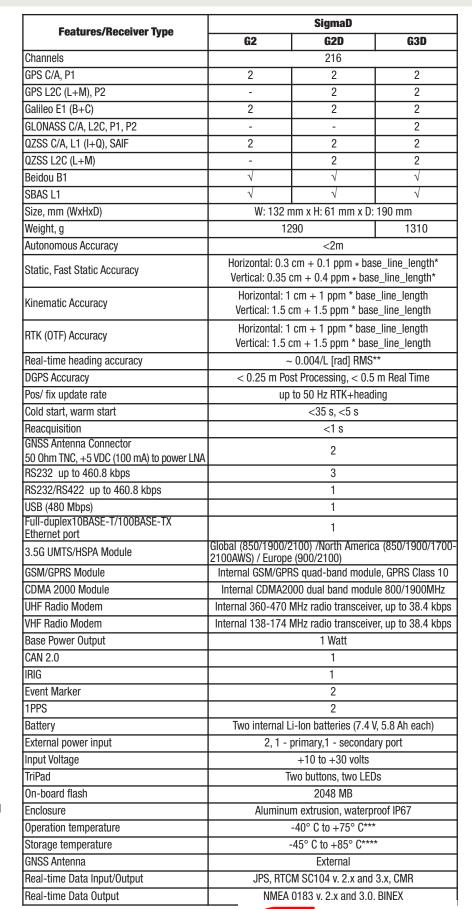
## **Optional Features**

- Galileo E1
- QZSS
- Beidou B1
- WAAS/EGNOS/MSAS (SBAS)
- Update rate 5Hz, 10Hz, 20Hz, 50Hz & 100Hz
- Heading rate 1 Hz, 5Hz, 10Hz, 20Hz, 50Hz
- Data recording up to 2048MB
- Multi-Base Code Differential Rover
- Code Differential Base
- Advanced Multipath Reduction
- · Advanced Multipath Reduction
- · Two event markers
- Two 1 PPS timing strobes
- 1 PPS level converter
- CAN port
- External Reference Frequency Input/Output
- External Reference Output Frequency converter
- IEEE1588 Master Clock (G3TAJT only)
- 2 high-speed RS232 serial ports
- High-speed RS232/RS422 serial port
- USB port
- Ethernet
- Bluetooth
- Internal 3.5G UMTS/HSPA Module
- Internal UHF Modem
- Internal GSM/GPRS Module
- Internal CDMA2000 Module
- WAAS/EGNOS/MSAS (SBAS)
- 2x External Power Inputs
- . Mounting Bracket



- 1. Communication and Power Ports
- 2. External GNSS Antenna Connectors
- 3. GNSS Interconnect Board
- 4. GNSS Power and Communication Board with on-board SIM/UIM -card
- 5. GNSS Receiver with on-board Memory
- 6. Rechargeable Li-lon Battery Pack
- 7. UHF/VHF Modem
- 8. SIM/UIM Card Holder
- 9. External UHF/VHF, GSM/CDMA2000, Bluetooth Antenna Connectors
- 10. 3.5G/GSM/CDMA2000 Modem
- 11. On/Off Button

Specifications are subject to change without notice





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