

Precis-TX204G GNSS RTK Receiver

GPS L1/L2, GLONASS G1/G2 with GSM/GPRS/EDGE

Precis-TX204G is an integrated multi-GNSS receiver, which is light-weight, rugged with built-in centimeter accurate RTK engine, onboard storage and versatile connectivity. The built-in battery can support up to 12 hours of continuous field work. Up to 16GB SD card makes your field work easy. The rugged enclosure enables the receiver to work in harsh environment. It is ideal for the following applications:

- Providing differential data or logging observation
- Providing centimeter level position and velocity information
- Providing precise navigation information for UAVs, robotics, etc.

Key Features:

- Supports two constellations, four frequencies
 - GPS L1/L2
 - GLONASS G1/G2
- Rapid RTK integer ambiguity resolution
- Supports 5Hz PVT output
- 16GB internal data storage for data logging
- Correction: RTCM 2.x/3.2/CMR/CMR+
- Integrated battery provides up to 12 hours of operation
- Integrated Bluetooth & Wi-Fi wireless technology
- Integrated display for system configuration without a controller
- Easy-to-use web-interface menu system for rapid configuration and status checking
- Supports GSM/GPRS/EDGE/receiving differential information and NTRIP protocol





Technical Specifications

Performance Specifications

- Frequencies.....GPS L1/L2、GLONASS G1/G2
- Standard Positioning Accuracy
 - Horizontal(RMS).....1.5m
 - Vertical(RMS).....3.0m
- RTK Positioning Accuracy
 - Horizontal(RMS).....10mm+1ppm
 - Vertical(RMS).....15mm+1ppm
- Observation Accuracy
 - C/A Code(zenith direction).....10cm
 - P Code(zenith direction).....10cm
 - Carrier Phase(zenith direction).....1mm
- Time to First Fix (TTFF)
 - Cold Start.....<60s
 - Warm Start.....<10s
- Initialization(typical).....<10s
- Initialization Reliability.....>99.9%
- Differential Data Format.....RTCM 2.x/3.x/CMR/CMR+
- Max Update Rate.....5Hz

Communication

- WIFI.....802.11b/g/n
- Bluetooth.....2.1+EDR
- GSM/GPRS/EDGE.....Dual band UMTS900/1800MHz
- Ethernet.....IEEE 802.3
- Serial port RS-232 x 1
- USB ports.....USB OTG x1
- CAN ports.....ISO/DIS 11898 x1
- PPS.....LVTTTL x1
- Event Mark.....LVTTTL x1

Physical Characteristics

- Input Voltage.....12V~36V DC
- Internal Battery.....7.4V, 4300mAh
- Power Consumption(typical).....4.2W
- Active Antenna Input Impedance.....50Ω
- Size.....110x81x52mm
- Weight.....489g
- Antenna Connector.....SMA female
- Operating temperature.....-20°C to +60°C
- Water & Dust proofIP67

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Optional Accessories

- Tersus AX3702/AX3703 antenna
- Adapter to Ethernet and RS-232 ports.