

TITAN™

TR7

GNSS RECEIVER



Data Specifications

GNSS

Signal Tracking
GPS: L1C/A,L2C/A,L2P,L5
GLONASS: L1C/A,L1P,L2C/A,L2P
BDS: B1 B2 B3
GALILEO: Reserved
SBAS: Reserved

No. of Channels 440

MEASUREMENT PERFORMANCE

Initializing Time Less than 10 Seconds
Real-time Kinematic Hz 8mm + 1ppm / V 15mm + 1ppm RMS
Static and Fast Static Hz 2.5mm + 0.5ppm / V 5mm + 0.5ppm RMS
High-precision Static Hz 2.5mm + 0.1ppm / V 3.5mm + 0.4ppm RMS
DGPS Hz 0.25m + 1ppm / V 0.5m + 1ppm RMS
Initialization Reliability 99.99%
Static Data Format GNS and Rinex

COMMUNICATIONS

Communication Ports USB, TNC antenna port and Nano SIM card slot 4G LTE
Bluetooth 4.0, Wi-Fi and NFC
DC External power input
LED indicator panels
Internal UHF transceiver
Frequency: 403-473MHz
Channel: 116 (16 configurable)
Transmitting power:1W/2W/4W
adjustable Supports most of the radio protocols: HI-TARGET, TRIMTALK450S, SOUTH, CHC, TRIMMARK III, TRANSEOT, SATEL-3AS Working range: 5-6km typical, 6-7km optimal

SYSTEM

Start-up Time 3 Seconds
Data Storage 16GB internal storage
Sensor Electronic bubble and tilt survey

DATA MANAGEMENT

Positioning Output Frequency 1Hz - 20Hz
Message Type CMR, RTCM2.X, RTCM3.0, RTCM3.2
Network Mode VRS, support NTRIP protocol
Output format ASCII: NMEA-0183, binary data
Application Function OTG, NFC, WebUI, USB firmware upgrade, network repeater station
Intelligent voice, self-test function, smart battery, battery quick change
Message delivery and remote upgrade

GENERAL

Environmental IP67 environmental protection
Humidity 100% condensing
Shock resistant body to 2m (6.5ft) pole drop
Temperature -40° to 75°C Operating
-55° to 85°C Storage

Physical Properties OLED Screen: 1.54in
Resolution: 128 x 64
Size: 137mm x 131mm
Weight: 1.35kg including battery
Power: 6 - 28V DC Input
Battery: 6800 mAh Li-Ion Battery
Battery Life: 10 hours
(Network/Cellular - RTK Rover)