

Tersus GNSS GC30 Smart Antenna

Technical Specifications



Performance

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|--|--|
| Frequencies: | GPS L1C/A, L2C, L2P, L5C GLONASS L1C/A, L2C/A BDS B1, B2, B3, supports BDS-3 Galileo E1, E5a, E5b QZSS L1C/A, L2C, L5 SBAS supports WAAS, EGNOS, GAGAN,SDCM, MSAS L-band |
| Single Point Positioning Accuracy (RMS): | |
| • Horizontal: | 1.5m |
| • Vertical: | 2.5m |
| Real Time Kinematic, RTK (RMS): | |
| • Horizontal: | 8mm+1ppm |
| • Vertical: | 15mm+1ppm |
| Timing Accuracy (RMS): | 20ns |
| Velocity Accuracy (RMS): | 0.03m/s |
| TAP positioning accuracy (RMS): | < 3cm |
| TAP convergence time: | 3 minutes |
| TAP coverage: | Global |
| TAP signal stability: | 99.99% |
| Initialization reliability: | > 99.99% |
| Correction: | RTCM 2.x/3.x, CMR/CMR+ |
| Max. data rate: | 20Hz |
| IMU data rate: | 100Hz |
| IMU Accuracy: | Roll/Pitch < 0.2° rms Heading < 0.3° rms |

Communication

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|---------------------------------|--|
| Connectors: | 12 pin, 19 pin, TNC |
| Ports: | RS-232 x 2, CAN Bus x 2, Ethernet (optional) |
| Wi-Fi: | 802.11b/g/n/ac |
| Bluetooth: | 4.1 |
| Cellular Bands: | FDD LTE 1,2,3,4,5,7,8,12,13,18,19,20,25,26,28 TDD LTE 38,39,40,41 |
| Internal Radio: | |
| • RF Transmit Power | 0.5W / 1.5W |
| • Frequency Range | 410MHz ~ 470MHz |
| • Operating Mode | Half-duplex |
| • Radio Protocols | CSS, Transparent, TrimTalk450, TrimMark 3, South, Satel |
| • Channel Spacing | GFSK/4FSK: 12.5KHz / 25KHz LoRa: 250KHz |
| • Air Baud Rate | GFSK/4FSK: 4800 / 9600 /19200bps LoRa: 18000 / 15000 / 12000 / 11000bps |
| Inertial Measurement Unit(IMU): | Support |
| LEDs: | Power, RTK Correction, Satellite |
| Output: | Position, Attitude, System Info, Configuration Communication |

Electrical & Physical

| | |
|--------------------|-------------------------|
| Input voltage: | 12V DC |
| Power consumption: | < 6 W (typical) |
| Dimension: | 200 L x 205 W x 65 H mm |
| Weight: | 1.5kg |

Environmental

| | |
|-------------------------|--------------------|
| Dustproof & Waterproof: | IP-67 |
| Humidity: | 95% not condensing |
| Operating Temperature: | -40 °C ~ +70 °C |
| Storage Temperature: | -40 °C ~ +85 °C |

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