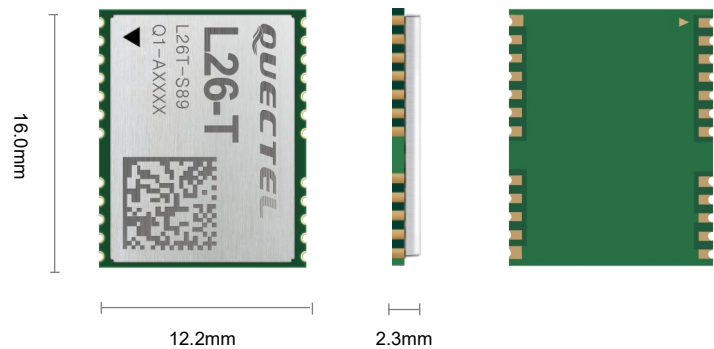


# Quectel L26-T

## Compact GNSS Module



L26-T concurrent GNSS modules features high integrity, precision timing in demanding applications world-wide. Supporting GPS, BeiDou, GLONASS and Galileo constellations, the module is completely compliant with national requirements. L26-T also supports the outputting of multi-GNSS raw data.

Multi-constellation allows accurate navigation in harsh environments such as urban canyons. And the built-in LNA ensures better performance under weak signal circumstances, survey-in and position-fixed navigation reduce timing jitter, even at low signal levels, and enable synchronization to be maintained with as few as one single satellite in view. Support for power saving mode reduces power consumption for battery-powered applications.

L26-T utilizes A-GNSS aiding data, which reduces the time-to-first fix and offers exceptional acquisition sensitivity, even on first installation before precise location, time or frequency are known.

The super performance makes L26-T ideal for base station, automotive, industrial and consumer applications.



### Key Benefits

- ✓ Ultra-compact size: 12.2mm × 16.0mm × 2.3 mm
- ✓ Multi-GNSS engine for GPS, GLONASS, BeiDou, Galileo and QZSS
- ✓ Built-in LNA for better sensitivity
- ✓ Support timing function
- ✓ Support RAW DATA function
- ✓ Support DGPS(RTCM)/SBAS (WAAS/EGNOS/MSAS/GAGAN)



Multi-GNSS Systems



Low Power  
Consumption



Extremely Compact  
Size



Tracking



Extended



RoHS Compliant

Sensitivity: -162dBm Operating Temperature:

-40°C to +85°C

# Quectel L26-T Module

| Module                       | L26-T   |
|------------------------------|---|
| General Features             |   |
| Region/Operator              | Global  |
| Dimensions (mm)              | 12.2mm × 16.0mm × 2.3mm   |
| Weight                       | Approx. 0.9g  |
| Temperature Range            |   |
| Operation Temperature        | -40°C ~ +85°C   |
| Storage temperature range    | -40°C ~ +90°C   |
| GNSS Features                |   |
| Receiving Bands              | GPS L1 C/A, Galileo E1, QZSS L1: 1575.42MHz<br>GLONASS L1 : 1602.5625MHz<br>BeiDou B1 : 1561.098MHz |
| Default GNSS Constellation   | GPS+GLONASS+Galileo   |
| Channels                     | 48 (Tracking)/ 2 ( Fast Acquisition)  |
| SBAS                         | WAAS, EGNOS, MSAS, GAGAN  |
| Horizontal Position Accuracy | Autonomous: <1.5m CEP   |
| Velocity Accuracy            | Without Aid: <0.1m/s  |
| Acceleration Accuracy        | Without Aid: <0.1m/s <sup>2</sup>   |
| Timing Accuracy              | 1PPS: 3. 9ns CEP  |
| TTFF (with AGPS)             | Cold Start: <13s  |
| TTFF ( without AGPS)         | Cold Start: <32s<br>Warm Start: <25s<br>Hot Start: <2s  |
| Sensitivity                  | Acquisition: -147dBm<br>Tracking: -162dBm<br>Reacquisition: -154dBm                                 |
| Dynamic Performance          | Maximum Altitude: Max. 18000m<br>Maximum Velocity: Max. 515m/s<br>Maximum Acceleration: 4g          |
| Certifications               |   |
| Regulatory                   | CE  |
| Others                       |   |
| Interfaces                   |   |
| UART Interface               | Adjustable: 9600bps~921600bps    Default: 9600bps<br>Update Rate: 1Hz (Default)                     |
| I/O Voltage                  | typical 3.3V  |
| Protocols                    | NMEA 0183   |
| External Antenna Interface   |   |
| Antenna Type                 | Passive or Active   |
| Antenna Power Supply         | External or Internal VCC_RF   |
| Electrical Features          |   |
| Supply Voltage Range         | 3.0V~3.6V, typical 3.3V   |
| Power Consumption            | Acquisition Power:71mA@3.3V<br>Tracking Power:67mA@3.3V<br>Power Saving:9uA@Standby Mode            |