Advanced

Wi-Fi Terminus NT-220LT Ruggedized Wi-Fi Enabled GPS Module

C O M M U N I C A T I O N S

JANUS REMOTE

Description

The rugged Wi-Fi Terminus NT-220LT combines state-ofthe-art 16 channel GPS receiver technology with 802.11 Wi-Fi transport protocol. Incorporating NavSync's own ultrasensitive navigational GPS receiver, the Wi-Fi Terminus provides Wi-Fi transportation of standard, user-configurable NMEA information (longitude, latitude, and UTC time). The 802.11 b/g compliant Wi-Fi supports WPA2 encryption and is fully configurable to virtually any Wi-Fi network.

Operation

The Wi-Fi Terminus NT-220LT is designed to communicate GPS (NMEA) data via TCP or UDP transmission. Users are able to configure appropriate NMEA messages and message rate, along with other features.

The Wi-Fi Terminus LT series offers continuous operation with exceptional tracking accuracy. The Wi-Fi Terminus power management capability allows the unit to enter an ultra-low power standby mode, enabling long term operation with periodic reporting.

The NT-220LT features additional on-board flash memory to enable capture and storage of GPS location information when a Wi-Fi network is not available. The saved data is stored until another Wi-Fi network is detected and the information can be transmitted.



Features

- Sensitive GPS receiver with tracking as low as -150dBm
- 802.11b/g compliant
- WPA2 encryption
- Integrated primary cell battery
- User programmable update rates
- Internal flash memory for saving GPS data
- Indicators for GPS fix status, and network status operation
- The NT-220LT is designed for longer battery life than the NT-110 versions of the Wi-Fi Terminus
- Dimensions: 4.27" x 3.36" x 1.77" (108.50mm x 85.45mm x 45.00mm)



Block Diagram

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Advanced

Bulletin	JA08-PB
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Making machines talk.

Telit

NT-220LT Wi-Fi Terminus Wi-Fi ENABLED GPS SPECIFICATIONS

GPS Performance

16	
1575.42 MHz – L1 C/A Code	
46 seconds	1, 4
< 3 seconds	2
-150 dBm	3
2 m	4
4 m	
515 m/s	5
15 m/s	6
18 Km	5
2 g	
15 dBm	
1Mbps	
Default is once per second, configurable via SNMP	
~1.1W	
<0.5W	
<50 uA	
-30°C to 60°C	
4.27" x 3.36" x 1.77" (108.50mm x 85.45mm x 45.00mm)	
Once per second	
14 AH	
30 days (3 minutes)	7
over 1 year (1 hour)	
over 2 years (1 day)	
N-type, 6.0 dBi maximum	
External antenna provided	
	16 1575.42 MHz – L1 C/A Code 46 seconds < 3 seconds

Notes:

1. These are RMS values

- 2. Maximum sensitivity -147 dBm
- 3. Simulator test, continuous fix with all signals at specified power level.

4. Open sky, 24 hr field test. No sky-view obstructions.

Accuracy relative to ACTUAL surveyed position, not self-relative survey.

5. Limited by International Traffic in Arms Regulation (ITAR)

6. Defined by navigation integrity check

7. GPS fix within 60 seconds; configuration traps up to 1 hour; 27°C: preliminary estimates

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