NEXT Trailer Trac – NT225

The NT225, redesigned and supercharged. The NT225 is an IP67 rated, rugged 4G Cat-M1/Nb-IoT GPS device designed for tracking non-powered assets where super-long battery life is required without sacrificing the frequency of updates and accuracy performance.

Features:

- Up to 10 years once hourly location!
- No install required, simply “place ‘n trace”
- IP67 water and dust proof
- Bluetooth Low Energy (BLE) v5
- Switch from "locate" to "track" over-the-air
- Magnetic tamper detection
- Battery Meter (Coulomb Counter)
- Unauthorised movement alerts
- Integrated Accelerometer
- High-G Event Detection

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More Technical Information

Mechanical Specifications	
Low-profile IP67 rugged housing	The IP67 rated housing is made of sturdy ABS/Polycarbonate plastic to survive bumps, knocks and to many years in the sun and weather.
Dimensions	L 224 X W 91 x H 41 mm
Operating Temperature	-20°C to +60°C1 1) Temp spec is for the board and housing. Be sure to check the temperature tolerance of your batteries.
Power	
3 x AA Batteries	3 x AA Batteries
Input Voltage	Max input voltage 16V, no reverse input protection
LTC Batteries	The NT225 requires Lithium Thionyl Chloride (LTC) 'Spiral Type' batteries. These offer high capacity, extended temperature tolerance and an extremely low self-discharge rate for the optimal performance in tracking applications.2 x C Cell LTC Spiral Type batteries for the NT225C2 x D Cell LTC Spiral Type batteries for the NT225D
GPS Tracking	
GPS and Cellular Antenna	Internal GPS and cellular antennas tuned by RF laboratories for optimal performance
GPS/GLONASS tracking	UBLOX EVA-M8 Concurrent GPS and GLONASS tracking 72 channel high sensitivity receiver -167dBM industry leading tracking performance
AssistNowOffline	AssistNowOffline aiding data for extremely fast time-to-first-fix and performance in urban canyon environments
Low Noise GPS Amplifier (LNA)	GPS signals are boosted by a special low-noise amplifier (LNA). This allows operation where normal units will fail to receive GPS signal –like in a container stack.
Firmware	
OTA Configuration	The device can be remotely configured and updated OTA (over the air). Device management is performed from Digital Matter's OEM Server device management platform.
Text Message Setup	The device can be sent text messages to set the APN, server and other details
Recovery Mode	The NT225 can be remotely switched into Recovery Mode which switches the device to live tracking and reporting –so that you can get your asset back!
G-Force Events	The NT225 can detect harsh G-force events (like assets being dropped or involved in accidents) and report these to the server.

Geo-Fences	The NT225 has the capacity to hold hundreds of geo-fences that can be downloaded to it from the server and updated Over-The-Air. This allows the NT225 to use this geo-fence information to implement geo-fence-based alerting on the device, or use alternate logging parameters when inside a geo-fence.
Adaptive Tracking	The Mini Trac can be set to use Adaptive-Tracking technology where the accelerometer and GPS data are used to intelligently work out if it is moving and to send frequent updates, and to scale the update rate down to once per day if the asset is stationary -to preserve battery life.
Performance Monitoring	Track how the NT225 is using its power with intelligent performance counters. Monitor wakeups, GPS fixes, uploads and more to understand exactly what the device is doing.
AES-256 Security	The Mini Trac uses bank-level AES-256 device authentication and data encryption to ensure that your data is kept private and secure.
Other	
Bluetooth v5	The NT225 is equipped with a Bluetooth v5 module, enabling it to communicate with Bluetooth tags. Such tags can be placed on low-value assets to provide their position when in range of the NT225
3-axis accelerometer	The 3-axis accelerometer allows The Mini Trac to 'sleep' in an ultra-low power state yet still wakeup when movement occurs. The accelerometer allows for High G-Force event detection (like assets being dropped or involved in accidents)
Internal Memory	Sufficient memory to store over 50,000 records. Normally data is sent to the server immediately but if the device is out of range there is space to ensure no data is lost.
Magnetic Tamper Detect	Optional magnetic wireless tamper switch detects when the device has been removed from the asset.
Battery Meter	A coulomb counter acts as a 'battery meter', tracking the energy consumption of the NT225. This enables an accurate battery percentage to be reported. The battery meter also allows accurate battery life predictions. Simply deploy the NT225 in your application with the desired settings. The energy usage will be reported, enabling you to extrapolate to determine the battery life time.
Connectivity	
SIM Size	Nano (4FF) Size Cellular SIM Card
2G Modem	2G: SARA-G350-02S-01 850/900/1800/1900 MHz
4G Modem	uBloxSARA-R410M Modem operates on all major global LTE-Cat-M1 and NB-IoT bands. These new low-power networks are specifically designed for IoT applications, providing great battery life. Supported LTE bands: 1-5, 6, 8, 12, 13, 17, 19, 20, 25, 26, 28
Certifications	
Certifications	Telstra Certified 4G Modem