

ATD551

GLOBAL ASSET TRACKER
& IOT GATEWAY



**Rugged &
Rechargeable**

**BLE Tag
Monitoring**

**WiFi & GNSS
Location**

**Comprehensive
Sensor Suite**

The Telit Cinterion ATD551 is a battery-operated global tracking device utilizing low power LTE CAT-M1/NB-IoT technology with embedded Bluetooth. The tracker is optimized for dry and refrigerated supply chain use cases at package level.

FEATURES & BENEFITS

- Real-time and periodic data reporting
- Bluetooth technology beaconing gateway
- Stand-alone GPS
- External temperature probe

EMBEDDED SERVICES

- Firmware-over-the-air (FOTA) updates
- API setup and device management
- Location-as-a-service (LaaS) for indoor and outdoor location services
- Indoor location via Bluetooth LE 5.1 technology beacons

The ATD551 offers cloud-based remote management via deviceWISE® CLOUD, enabling seamless connectivity and control.

Advanced features providing enhanced functionality and flexibility can be activated through the deviceWISE® Cloud Portal, including:

- Data orchestration
- Cloud storage
- Data transfer

deviceWISE®
CLOUD



Hardware and Electrical Specifications

Antenna	Internal cellular, GNSS, Bluetooth and Wi-Fi
Cellular/Network	Global LTE M1 with 2G fallback
Data Support	MQTTS, HTTPS, LWM2M
Satellite Location	Standalone GNSS AGPS Locations assistance
Storage	16MB Flash
Bluetooth	Bluetooth 5.1
External Temperature Probe	DS2484 1-wire external temperature probe Temperature range: -55C to 125C
Electrical	Operating Voltage: 3.7 VDC Power Consumption: 40uA @ 3.7V (deep sleep) 60mA @3.7V (active)
Sensors	Ambient light sensor NIST traceable temperature and humidity Pressure 3-axis accelerometer and 3 axis gyroscope Wi-Fi AP scanning
Environmental	Ingress Protection: IP67
Security	White box PEN Test with 3rd Party Lab Secure Element: key generation and storage Flash storage encryption Secure bootloader with image verification Secure connection TLSv1.2
Cloud	Telit Device Management
Battery	Capacity: 3000 mAh Technology: Lithium-Ion Operating temperature: -20 to +60C Charging Temperature: 0 to +45C
Temperature response	T90: 14 minutes (-20 to 25C)
Charging	6 hours
Status LEDs	2 Tri-color LEDs: Power and Network/Connection Status
Operating Temperature	Gateway: -20 to 60C 1-wire temperature probe: -55C to 125C
Button	On/Off On-demand reporting Power status
Enclosure	PC 945
Dimensions	86 x 63 x 23mm
Weight	120g
Regulatory Certifications	FCC/IC, AT&T, Verizon

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