

Amber Power T300

Multifunctional GPS Tracker



Bluetooth for external devices and Low Energy sensors



External GNSS antenna extends mounting options



Dual SIM – significantly reduce roaming costs



Allows device to work without external power source



1-Wire® interface to monitor temperature data and RFID/iButton tags



RS232/RS485 serial communication interfaces

ADVANCED 3G TERMINAL WITH GNSS AND 3G/GSM CONNECTIVITY, RS485/RS232 INTERFACES AND BACKUP BATTERY

APT300 is small and professional real-time tracking terminal with GNSS and 3G/GSM connectivity and backup battery. Device equipped with GNSS/Bluetooth and 3G modules, internal GNSS, 3G antennas. APT300 features RS485/RS232 data interface, which gives ability to connect various third-party external devices. It is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on.

Use Cases



Light Vehicles



Heavy Duty Transport



Trailer Tracking



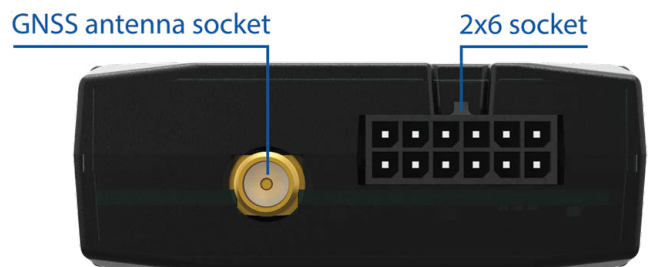
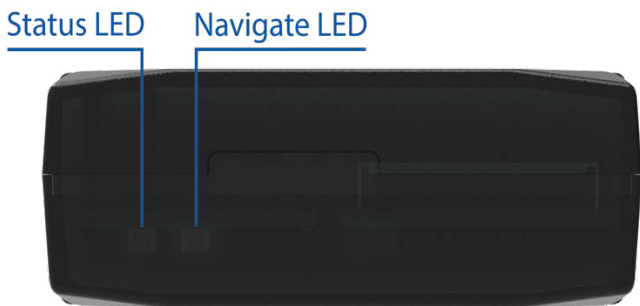
REFRIGERATED Transport



International Logistics



Car Sharing



Module

Name	APT300
Technology	3G{UMTS/HSPA}/2G{GSM/GPRS}/GNSS/BLUETOOTH

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Protocol compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG
Receiver	Tracking: 33/99 acquisition channels
Tracking sensitivity	-110 dBm
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0.1m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	UMTS/HSPA
2G bands	UG96 : B5/B8/B3/B2
3G bands	UG96 : B6/B5/B8/B2/B1
Data transfer	UG96 : HSUPA: Max. 5.76Mbps UMTS: Max. 384Kbps (DL)/Max.384Kbps (UL) GPRS: Max. 107Kbps (DL)/Max.85.6Kbps (UL)
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)

Power Consumption

Ultra Deep Sleep	At 12V < 6mA
Deep Sleep	At 12V < 6.5mA
Online Deep Sleep	At 12V < 7mA
GPS Sleep	At 12V < 12mA
Nominal with no load	At 12V < 38 mA

Bluetooth

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support

Physical specification

Dimensions	65 × 56.6 × 20.6 mm (L x W x H)
Weight	55 g

Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
Battery charge temperature	-0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 month

Interface

Digital Inputs	2
Digital Outputs	1
Analog Inputs	1
CAN Adapter Inputs	1
1-Wire	1
RS232	1
RS485	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	2× SIM Card (Dual-SIM)
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Amber Configurator (USB, Bluetooth), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), RS232/485 Fuel sensor, LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)
RS232 Modes	Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary, Magnetic card reader
RS485 Modes	Log Mode, NMEA, LLS, TCP ASCII/Binary


Certification & Approvals


Regulatory	CE/RED (Quectel UG96), E-Mark (Quectel UG96), EAC, RoHS, REACH
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