Amber Govern T400-m
PROFESSIONAL LTE CAT M1/GNSS TERMINAL

LTE M1/ NB IoT

Device support both LTE M1 and NB IoT connectivity

Dual SIM – significantly reduce roaming costs

Bluetooth for external devices and sensors

RS232 RS485

RS232/RS485 serial communication interfaces

ECU

CAN data reading from vehicles and specialized transport

Tachograph files and data remote download

PROFESSIONAL LTE CAT M1/GNSS TERMINAL

Amber Govern T400-m is a PROFESSIONAL worldwide tracker with LTE CAT M1, NB IoT connectivity, that makes this device usable with newest and most cost efficient technologies. AGT400-m features like FMS CAN data (J1939), fuel CAN data (J1708), tachograph live data (K-line), remote tachograph file download, various third party RS232 or RS485 devices support and Dual-SIM will maximize your fleet efficiency. Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.

USE CASES

Construction & Mining

Heavy Duty Transport

Public Safety Service

Refrigerated Transport

Agriculture Transport

International Logistics

Port 1   Port 2

Mini-USB   2x10 socket

GNSS antenna socket   Cellular antenna socket

Navigate LED   Status LED   J1708 port

Module

Name	Quectel BG96
Technology	LTE(CAT M1)/2G(GSM/GPRS)/GNSS

GNSS

GSNN	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	Tracking: 33 channel
Tracking sensitivity	-165 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	LTE CAT M1/CAT NB1/EGPRS
2G bands	Quad-band 800/850/900/1900 MHz
4G bands	LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28 LTE TDD: B39 (for CAT M1 only)
Data transfer	LTE FDD: Max. 375Kbps (DL)/Max.375Kbps (UL) LTE TDD: Max. 32Kbps (DL)/Max. 70Kbps (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	550 mAh Ni-Mh, 8,4 V battery

Bluetooth

Specification	5.0 + LE
Supported peripherals	Temperature and Humidity sensor, Universal BLE sensors support

Physical specification

Dimensions	104,1 x 76,8 x 31,5 mm (L x W x H)
Weight	197g

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

Interface

Digital Inputs	4
Digital Outputs	4
Analog Inputs	4
1-Wire interface	1
RS232	2
RS485	1

Interface

CAN J1939	2
J1708	1
K-line	1
GNSS antenna	External High Gain
Cellular antenna	External High Gain
USB	2.0 Mini-USB
LED indication	2 status LED lights
SIM	2x SIM Card (Dual-SIM)
Memory	2 MB internal flash memory and external Micro SD card up to 32GB

Features

Movement detection	Accelerometer
Scenarios	Green/Eco Driving, Over Speeding detection, Jamming detection, Excessive Idling detection, Towing detection, Crash detection, Immobilizer, iButton Read Notification
Functionalities	Auto Geofencing, Manual Geofencing, Trip detection, Odometer, Fuel counter, GNSS Unplug Detection, DDD download and Tacho online data, Offline tracking
Supported peripherals	Garmin, RFID RS232, RFID 1-Wire, iButton 1-Wire, Temperature 1-Wire, LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS (J1939, J1708), K-line data, Continental tire pressure measurement sensor, Iridium SBD (TSM232), Carrier freezer, Log Mode, NMEA, TCP ASCII/Binary, Temperature and humidity sensor, Universal BLE sensors support
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), Digital LLS (RS232, RS485), LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS, Ultrasonic level sensor
Ignition detection	Digital Input, Accelerometer, External Power Voltage

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