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

4G

Reliable 4G connection with fallback to 3G and 2G network

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-la is a PROFESSIONAL series device with 4G (LTE Cat 1) network coverage including 3G (UMTS), 2G (GSM) fallback compatibility. Device equipped with GNSS and LTE modules, external GNSS and LTE antennas. AGT400-la will maximize your fleet efficiency with 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.Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.

USE CASES

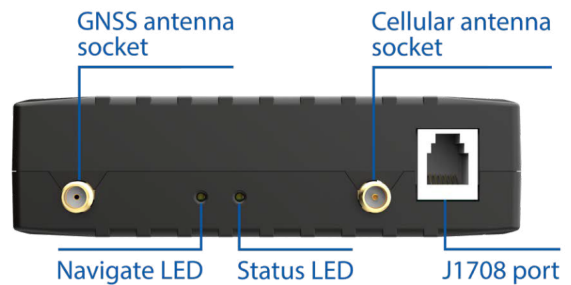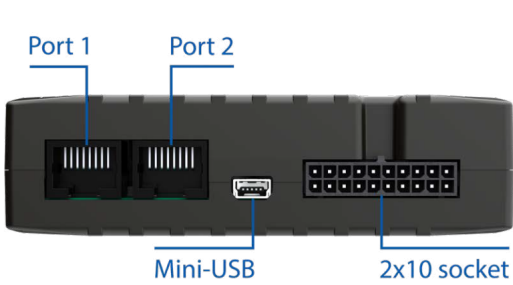**Construction & Mining**

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 EG91-EX, Quectel EG91-AUX
Technology	LTE(CaT1)/3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS

GNSS

GSNN	GPS, GLONASS, GALILEO, BEIDOU, QZSS
Protocol compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG
Receiver	Tracking: 33/99 acquisition channels
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 1, UMTS, GSM
2G bands	EG91-EX: GSM: B3/B8 EG91-AUX: GSM: B2/B3/B5/B8
3G bands	EG91-EX: WCDMA: B1/B8 EG91-AUX: WCDMA: B1/B2/B5/B8
4G bands	EG91-EX: LTE FDD: B1/B3/B7/B8/B20/B28 EG91-AUX: LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66
Data transfer	LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) WCDMA: 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	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	197 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

Interface

Digital Inputs	4
Digital Outputs	4
Analog Inputs	4
1-Wire interface	1

Interface

RS232	2
RS485	1
CAN J1939	2
J1708	1
K-line	1
GNSS antenna	External High Gain
Cellular antenna	External LTE CAT 1 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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