



FMS Gateway

GT1 Pro

Specification (Version 1.0)



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Preface

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Product Name Explanation

GT1 Pro is an FMS Gateway with built-in cellular module, can connect to Driver App and Fleet Management Platform to improve fleet efficiency, with the live GPS tracking and remote diagnostics, it can help fleet manager truly captures real-time vehicle safety.

Symbol Explanation

The following symbols are used to categorize and explain potential hazards that may arise from improper operation

Symbol	Explanation
	Warning: Conditions that could jeopardize the safety of the user or cause injury
	Important: Conditions that may lead to data corruption or damage to the device's firmware or hardware
	Note: Additional information, explanations of terms, and other relevant details

Product Overview

Product Introduction

GT1 Pro is an FMS Gateway which can integrate with DC Max to achieve the AI Video Telematics. Benefits by powerful expansion capability, GT1 Pro is able to face the scenario around Trucking industry, and also can uploads event data to the fleet management platform for driver training purposes. Additionally, it transmits real-time vehicle location and operational data to the platform. Seamless compatibility with a variety of wired/wireless peripheral accessories: Fuel sensor/Door sensor/Temperature and humidity/RFID reader.

Product Features

- Supports external connection of 4 IPC channels.
- Built-in Wi-Fi, Bluetooth, 4G Cellular module, and inertial navigation module.
- Supports 3 channels of IO input, 1 channel of IO output, and 2 channels of RS232, 1 channel of RS485, 1channel of I-Button.
- Supports OBD power supply, convenient and quick installation, support 2 channels of CAN, 1 channel of J1850, 1 channel of J1708, 1 channel of K-Line, 1 channel of L-Line.
- Supports sleep mode and remote wake-up. Support expand Backup Power for sending disconnection alerts when vehicle power disconnected, and by using Backup Power in low power mode support continuous operation for several hours.
- Built-in 6-axis gravity sensor, supports detection of rapid acceleration, rapid deceleration, sharp turns, and collisions

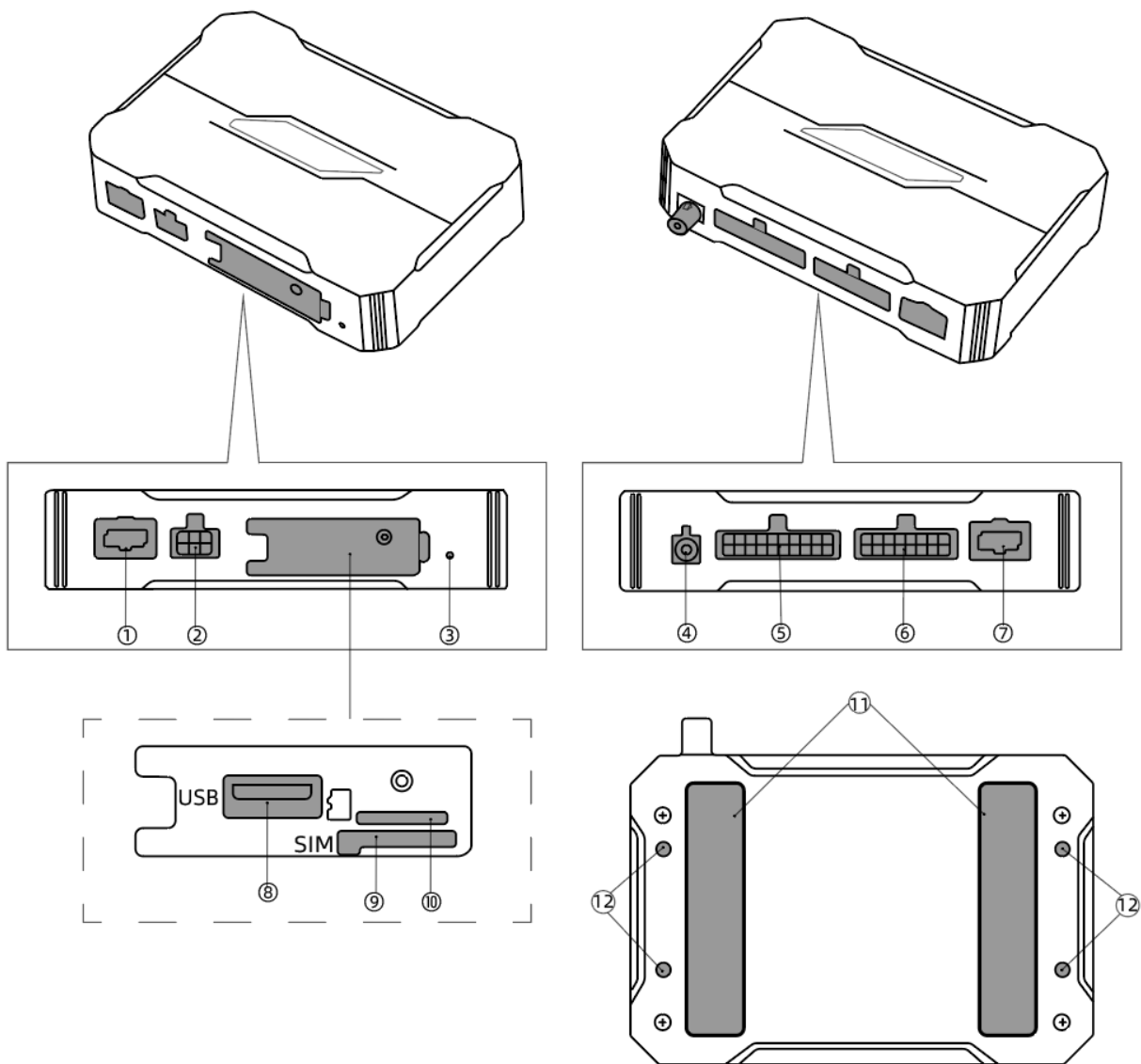
Specification

General		
Product Model		GT1 Pro
System		Embedded Linux
Language		● Default: English ● Options: Chinese, Chinese (Traditional), English, Spanish, Spanish (Latin American), Portuguese (Latin American), French, Russian and Japanese * The language does not support Audio like TTS or MP3.
LED Indicator Status		
Indicator Light	Off	On/Flashing
State Indicator	No power supply	Self-check (GNSS& Platform) Normal operation (Flashing) Alarm triggered
Sensor		
Six-axis Sensor		Harsh acceleration, Harsh deceleration, Harsh cornering, and accident detection
Port		
RS232		2-channel
RS485		1-channel
I/O Port		3-channel input, 1-channel output (support 12V@1.5A output)
CAN		2-channel CAN, 1-channel J1708, 1-channel J850, 1-channel K-Line/L-Line
I-Button		1-channel
USB		1-channel Type-A
Storage		
Mirco SD Card		Micro SD card × 1 (SDXC 64GB/128GB/256GB) Read/write rate: Class 10 or above is recommended
Network		
Wi-Fi		Support 2.4G (IEEE Std. 802.11b/ IEEE Std. 802.11g/ IEEE Std. 802.11n/ IEEE Std. 802.11ax)

Bluetooth	Support Bluetooth 2.1+EDR/3.0/4.x/5.2
4G	Plug-in SIM card (Nano SIM card), reserved eSIM patch position, can support pre-burn-in eSIM. For Global: LTE-FDD: B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 28 LTE-TDD: B38/ 39/ 40/ 41 UMTS: B1/ 2/ 4/ 5/ 6/ 8/ 19 GSM: B2/ 3/ 5/ 8  An industrial SIM card (MP2) is required. The use of a standard SIM card (MP1) is prohibited. We are not responsible for any issues caused by the use of a standard SIM card
Positioning	
GNSS	Supported GPS/QZSS L1 C/A GALILEO E1(E1B+E1C) GLONASS L1OF BEIDOU: B1I SBAS: WAAS, EGNOS, MSAS, GAGAN
Power related	
Power supply	12V and 24V vehicles (self-adaptive)
Power consumption	- In Standby mode:13.5V@4mA, 27V@2mA - In sleep mode (4G and MCU are powered): 13.5V@77mA, 27V@47mA - Typical power consumption (SIM card for dialing, Wi-Fi turned on): 13.5V@185mA, 27V@100mA
	Notes: The above data are test data obtained in a specific environment in the laboratory, and may vary with the individual product differences, service environment, and testing methods.
Environment	
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Operating Humidity	15~95% non-condensing
Storage Humidity	15~95% non-condensing

Dimensions and Weight	
Dimensions L×W×H	Gateway: 125.3 mm×84.2 mm×28 mm; Deviation: ±2 mm Package: 222 mm×180 mm×35 mm; Deviation: ±2 mm
Weight	Net weight (device only): 280g Gross weight (including accessories and package): 770g Deviation: ±10g
 Actual dimensions and weight may vary slightly due to product differences, manufacturing processes, and testing methods.	
Package Contents	
GT1 PRO ×1, standard power cable ×1, hex wrench ×1, desiccant ×1, alcohol wipe ×1, Zip ties ×3 * Contents may vary depending on the region and specific requirements	

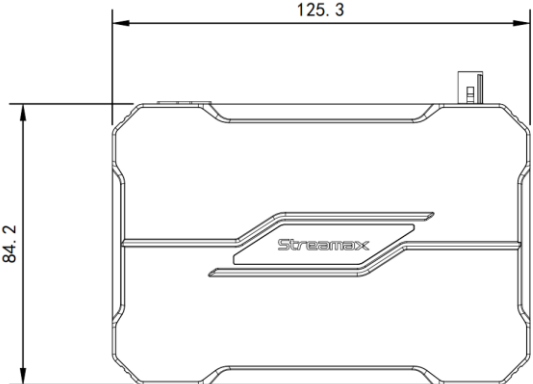
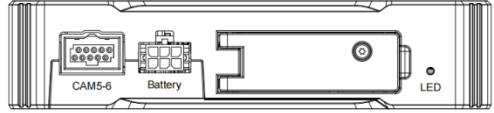
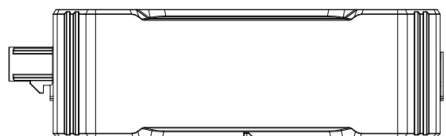
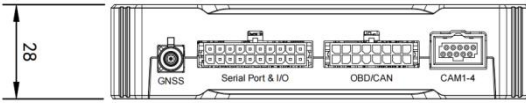
Product Appearance and Component Names



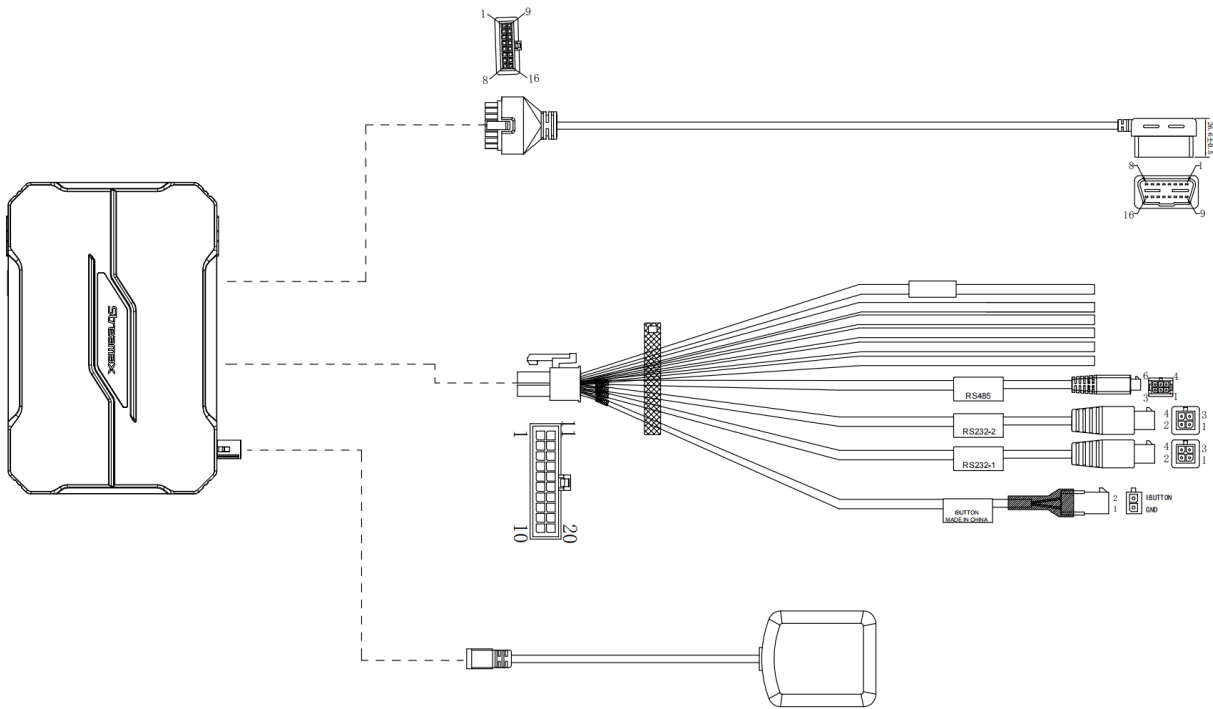
NO.	Components	NO.	Components
1	Video Expansion Port CAM 1-4	7	Video Expansion Port CAM 5-6
2	Backup Battery Expansion Port	8	USB Type-A Port
3	Indicator Light	9	SIM Card Slot
4	External GNSS Antenna Interface	10	Micro SD Card Slot
5	Serial & I/O Port	11	Velcro
6	Power Supply & OBD/CAN Port	12	Expansion Mounting Bracket Holes

Product Dimension Diagram

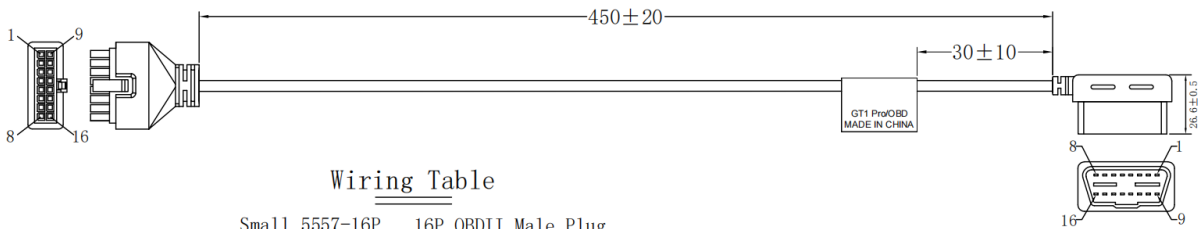
(Unit: mm)

	
Top View	Front View
	
Right View	Rear View

System Connection Diagram



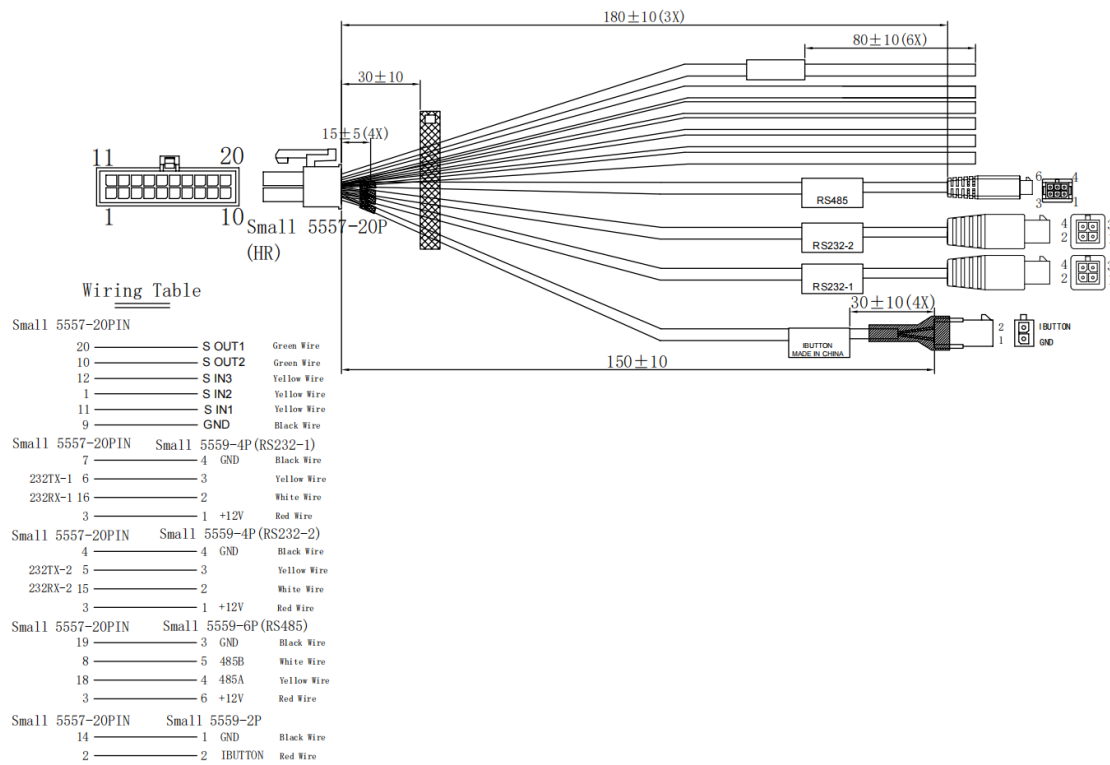
Cable Details



Wiring Table

Small 5557-16P		16P OBDII Male Plug
J1850 Orange Wire	1	2
CAN1-H Yellow Wire	2	3
CAN0-H Blue Wire	3	6
L-LINE Green Wire	4	15
J1708总线 Brown Wire	5	12
J1850总线 Orange-White	9	10
CAN1-L White Wire	10	11
CAN0-L Blue Wire	11	14
J1708总线 Brown-White	12	13
K-LINE Green-White	13	7
12V Red Wire	6+15	16 20AWG
GND Black Wire	8+16	4 20AWG
GND Black Wire	7	5

16PIN OBD Power Cable



Extension Sensor Cable

Special Instructions

- This product requires installation by professionals; otherwise, there is a risk of electric shock, damage to the vehicle wiring, impact on AI performance, and device detachment.
- When used under direct sunlight, the surface temperature of this product may exceed 60°C. Please avoid touching the sun-exposed surface to prevent burns.

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

IC Warning

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

*RF warning for Mobile device:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

L'appareil a été évalué pour répondre aux exigences générales d'exposition aux RF. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.