

DASAN TMS3.0 Vehicle Control Terminal Instruction Manual

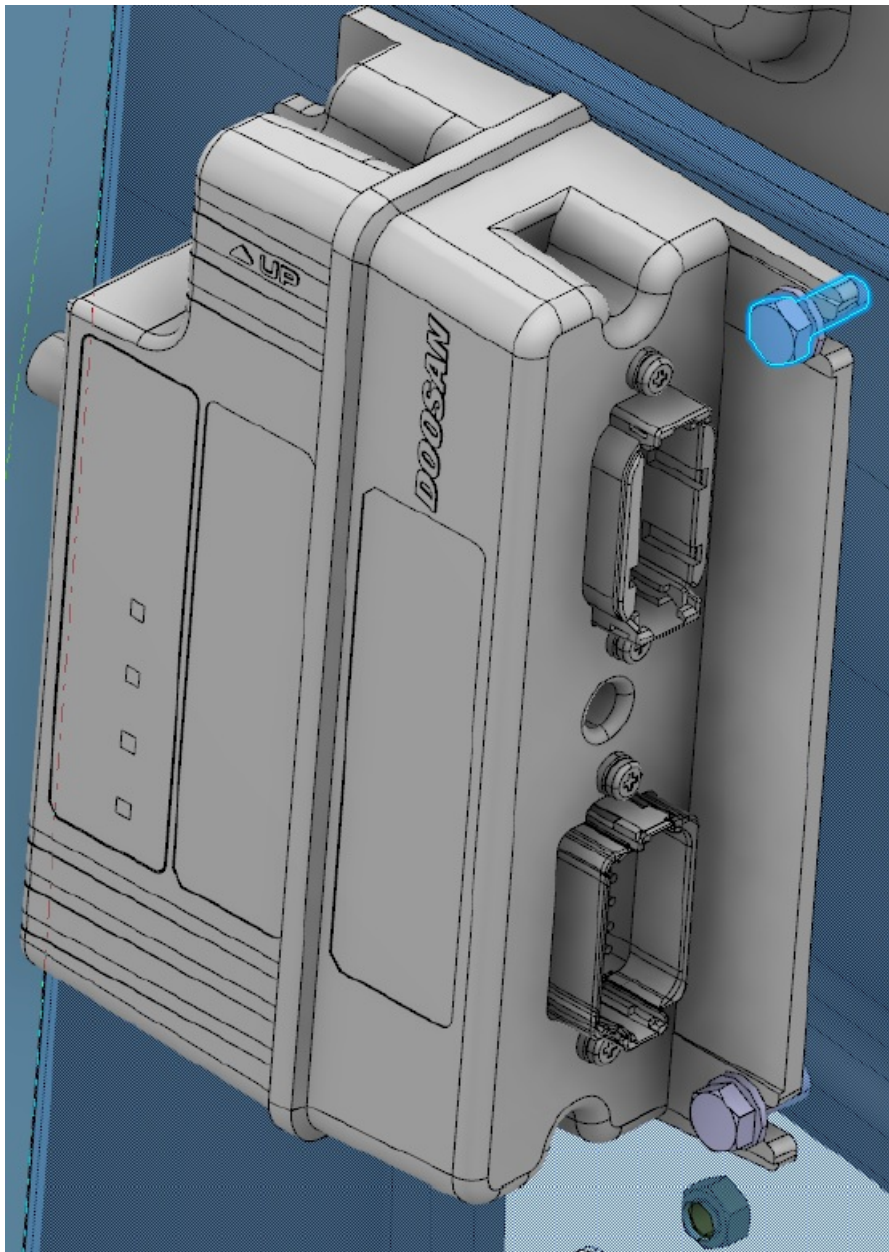
[Home](#) » [DASAN](#) » DASAN TMS3.0 Vehicle Control Terminal Instruction Manual 

Contents

- [1 DASAN TMS3.0 Vehicle Control Terminal](#)
- [2 Revision history of document](#)
- [3 Precautions In Product Handling](#)
- [4 FCC Compliance](#)
- [5 System Overview](#)
- [6 Product Interface & Specification](#)
- [7 Installation Preparation](#)
- [8 Documents / Resources](#)
- [9 Related Posts](#)



DASAN TMS3.0 Vehicle Control Terminal



Revision history of document

Version	Date	Description
V1.0	2019-02-19	Initial release
V2.0	2019-07-01	2nd release – Type A removed LTE Connector
V3.0	2020-09-14	3rd release – Add FCC/CE/IC requirement – Iridium/GPS/WiFi Connector changed – LED Specification changed
V3.1	2020-09-16	4th release – Changed PMN

Precautions In Product Handling

Read carefully the following contents before handling this product and use this product correctly according to guidelines. And after understanding precautions well, keep this manual well and let manager or user use this manual before and after installing product or before handling product. If the person in charge is changed, be sure to hand over this manual to the successor and let he/she use product correctly.

CAUTION AND WARNING

Installation Qualifying Condition

Only the person who is qualified for handling designated installation equipment or only skilled technician can install this product.

Prohibition Of Product Disassembly

Disassembly of this product can cause loss of life and property by electric shock, breakdown, malfunction, static electricity, etc. Do not disassemble, repair, remodel this product recklessly. If repair is needed, call Helpdesk (+82-1588-7080).

Strict Observance Of Operation Condition

This product normally operates in the condition described in product specification. However, if the product keeps operating in condition that it is close to the minimum or maximum value, a probability of loss of life and property increases. Therefore, be sure to predict/check environmental change that each condition range may not approach the minimum or maximum value, and manage that the equipment may operate in median value of operation condition range.

Maintaining Cleanliness Of Installation Place

Be sure to tidy up product installation place before and after installation, and do not leave working tools or components alone on the moving path to prevent accident.

FCC Compliance

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.

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.

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

The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body.

IC Compliance

This device contains licence-exempt transmitter(s)/receiver that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body.

System Overview

Enables real time monitoring of equipment operating information and state information in a remote place through mobile communication or satellite communication, and, through the real time monitoring, user, dealer, customer can raise efficiency of equipment management.

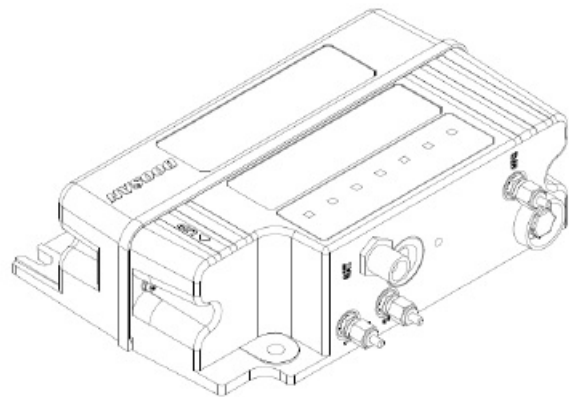
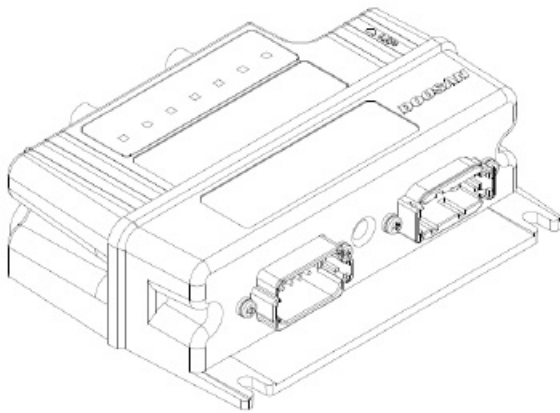
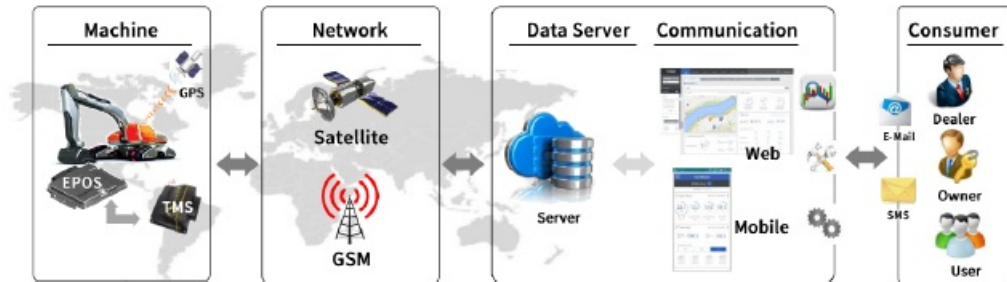


Fig. 2.1 Front/Rear View

Product Interface & Specification

This page describes product interface and specification.

Classification By Product

	Type-A	Type-B	Type-C	Type-D
Satellite		O		O
LTE(2G/3G/LTE)	O	O	O	O
GPS	O	O	O	O
Wi-Fi/BT			O	O
100BASE-T1 (BroadR-Reach)			O	O

TMS3.0 Classification By Product

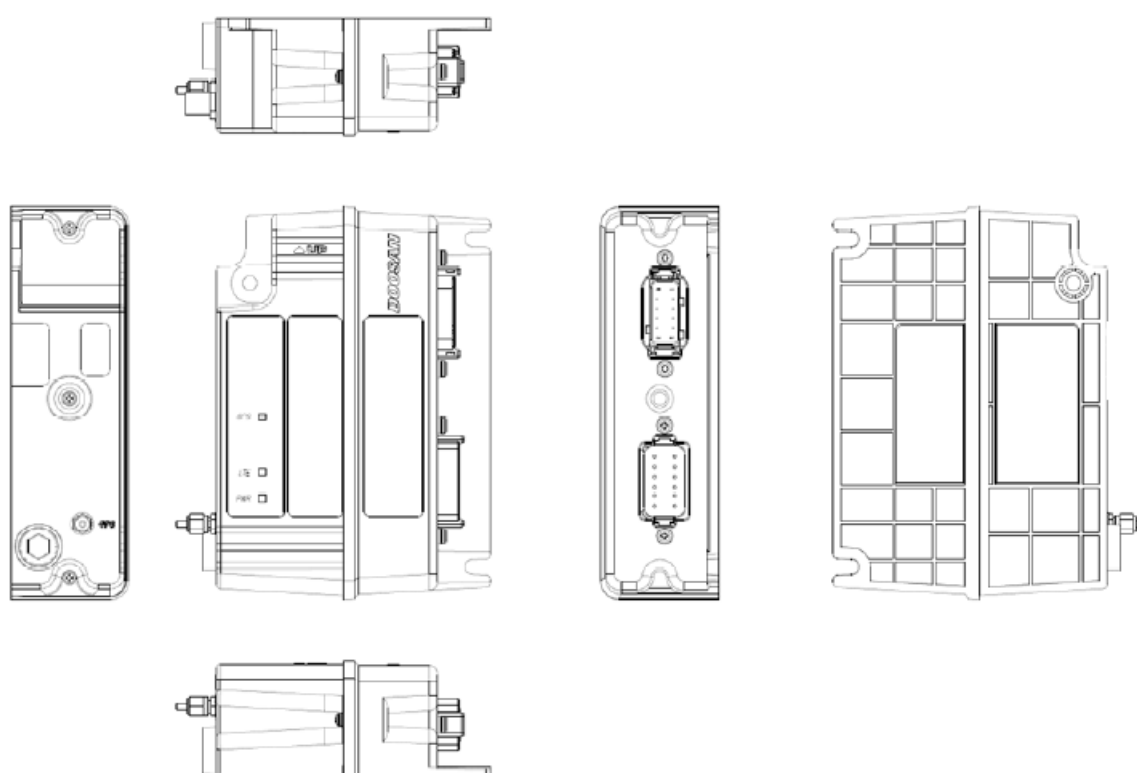


Fig. 3.1 Overall Shape Of TMS3.0 Type-A

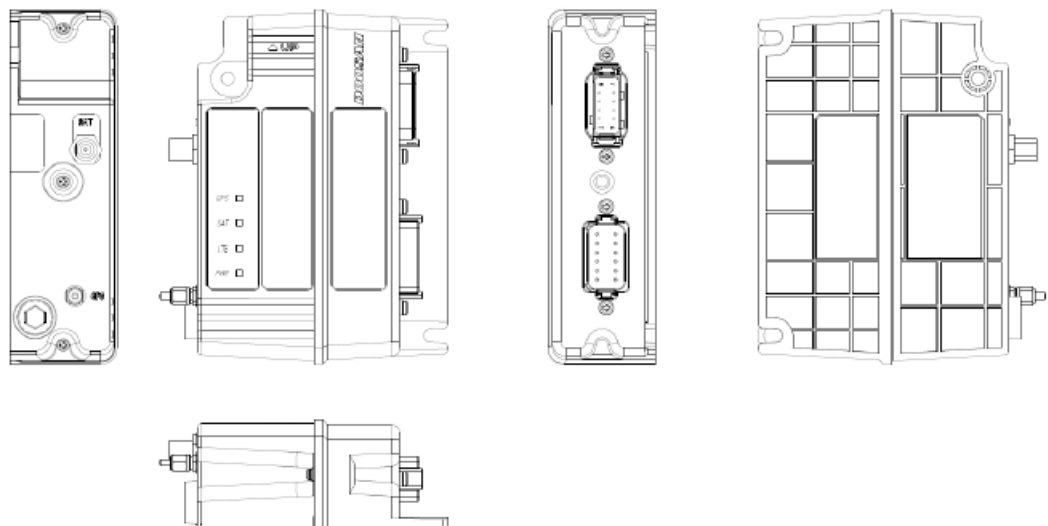


Fig. 3.2 Overall Shape Of TMS3.0 Type-B

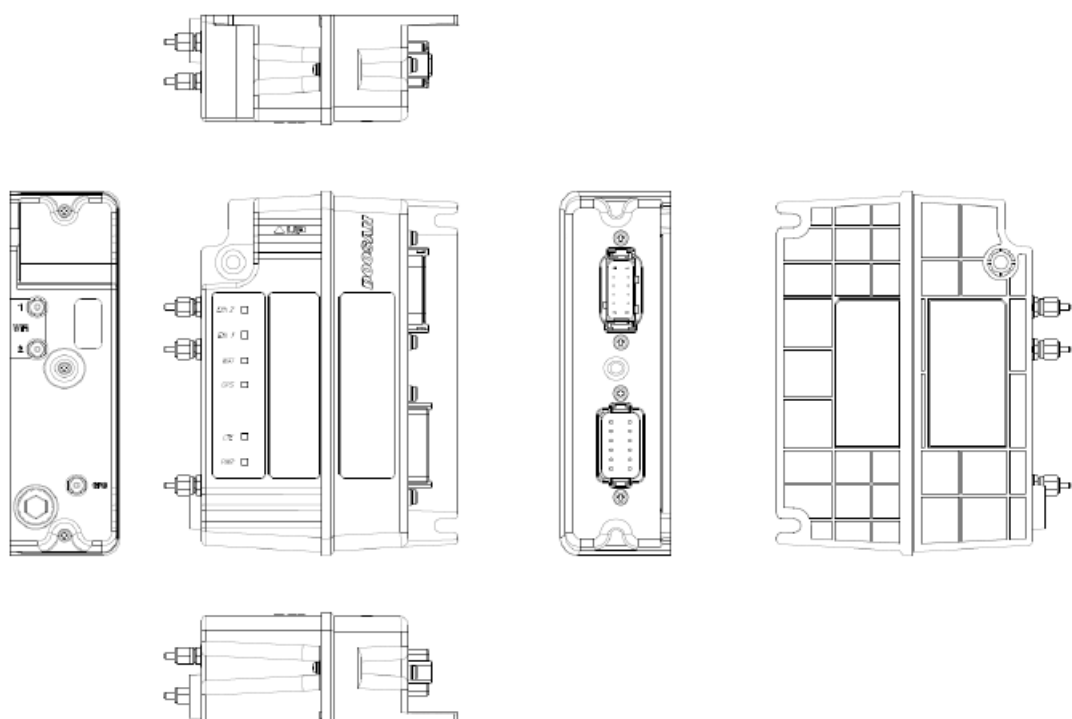


Fig. 3.3 Overall Shape Of TMS3.0 Type-C

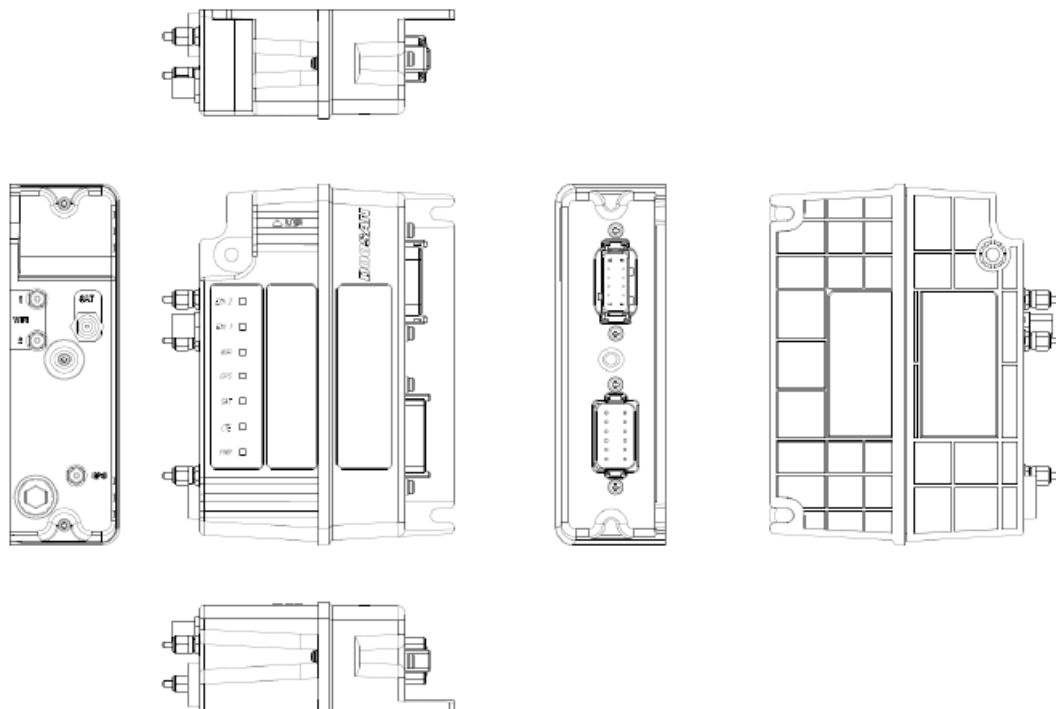


Fig. 3.4 Overall Shape Of TMS3.0 Type-D

Product Specification

Item	Detail Function	Remarks
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• Interface

INTERFACE	1 x Mandatory Connector	
	1 x Secondary Connector	
	1 x Satellite Antenna Connector	Type-B, D
	1 x GPS Antenna Connector	
	2 x Wi-Fi/BT Antenna Connector	Type-C, D

• LED Indicator

LEDs	Type A : Power, LTE, GPS Type B : Power, LTE, SAT, GPS Type C : Power, LTE, GPS, WiFi, Ethernet 1,2 Type D : Power, LTE, SAT, GPS, WiFi, Ethernet 1,2	7 LEDs
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• Power

DC Input Voltage	12/24VDC	
Consumption Power	Max 10.18W (based on 24V, Battery Charging, product D type)	
Internal Battery	TLI-1550 Cell X 3 (TADIRAN)	

- Physical Specification

Size (H x W x D)	174 x 122 x 52.4mm	
Operation Temperature	-30 ~ +75°C	
Operation Humidity	10 ~ 95% RH	
Storage Temperature	-40 ~ +85°C	

Product Interface

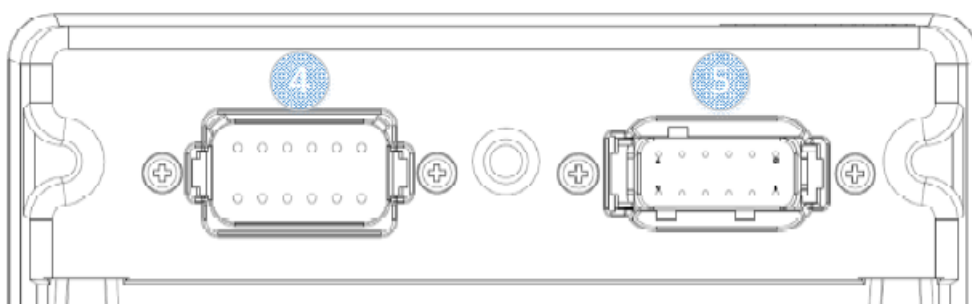


Fig. 3.5 Front Common Connector Shape Of TMS3.0

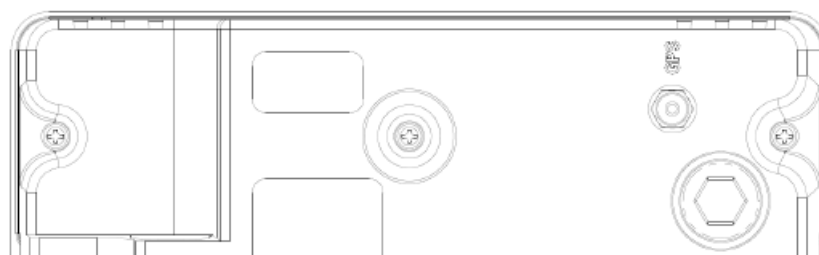


Fig. 3.6 Rear Connector Shape Of TMS3.0 Type-A

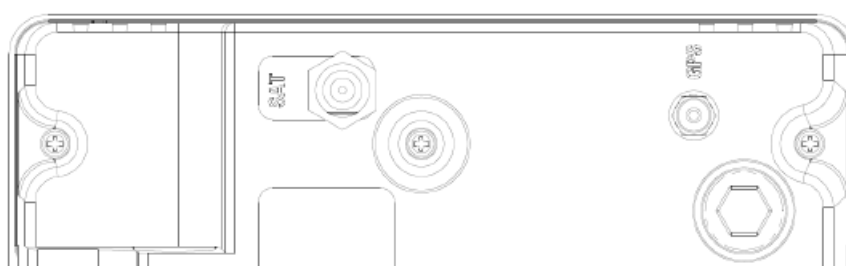


Fig. 3.7 Rear Connector Shape Of TMS3.0 Type-B

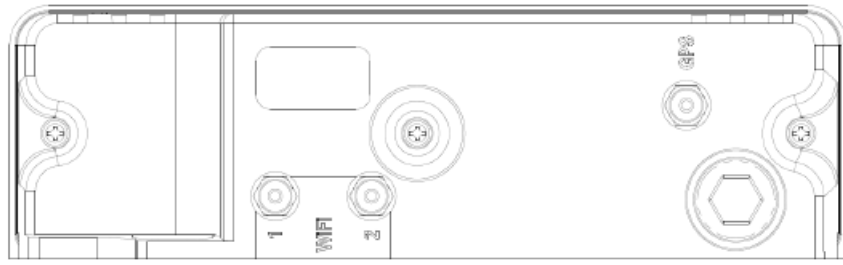


Fig. 3.8 Rear Connector Shape Of TMS3.0 Type-C

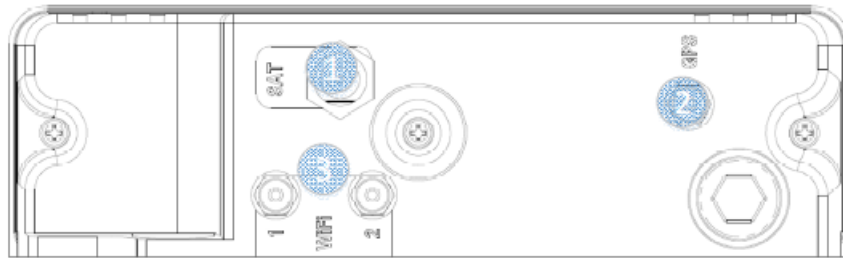


Fig. 3.9 Rear Connector Shape Of TMS3.0 Type-D

No.	Item	Function	Connector Type
1	Satellite	Satellite Antenna Connection	S570-2094
2	GPS	GPS Antenna Connection	S510-2573
3	Wi-Fi/BT	Wi-Fi Antenna Connection	S510-2573
4	Mandatory Connector	Power Alternator Key On CAN Security Serial RX/TX Cold Reset	DT13-12PA
5	Secondary Connector	CAN Solenoid Digital Input 100BASE-T1 x 2 Serial RX/TX	DTM13-12PA

Product Antenna Specification

Item	Part No.	Connector Type	Length [mm]
GPS	HGPS-AX-0108A-04	SMA-Male	3320
Iridium/GPS	HIRD-SG-0147A-01	Iridium : TNC-Male (Standard) GPS : SMA-Male	3320
Wi-Fi/BT	WLAN 2458 LP/S/SMA/0.15 MIMO 2	SMA-Male	3320

LED Specification

Item	Color	State	Interval	Description
Power (Key on)	Green	Blinking	1000ms	Key On
	Green	Lighting		Engine On
	Yellow	Lighting		Internal Battery Charge & Under 50% Capacity
	Yellow	Blinking	500ms	Undefined Model

	Red	Lighting		Harness Failure
	Red	Blinking	500ms	Fault Code
Power (Key off)	Yellow	Blinking	1,000ms	Mbat Sleep (Sleep Vbat Event)
	Yellow	Blinking	1,000ms	Deep mode (Sleep Deep Event)
	Yellow	Blinking	1,000ms	Wake up (in Mbat Sleep status)
LTE	Red	Blinking	500ms	LTE Module / USIM Fault
	Yellow	Lighting		Unregistered (Roaming Failed)
	Yellow	Blinking	1,000ms	Registering
	Green	Lighting		Normal – Standby
	Green	Lighting	500ms	Data Sending / Receiving
SAT	Green	Lighting		Satellite in View
	Yellow	Lighting		No Satellite in View
	Green	Blinking	500ms	Data Sending / Receiving
	Red	Lighting		Antenna Disconnected (Short/Open)
	Red	Blinking	500ms	SAT Module Fault
GNSS	Yellow	Lighting		GPS Satellite is not sensed.
	Green	Lighting		Normal
	Red	Lighting		Antennal Non-Connection
	Red	Blinking	500ms	GNSS Module Fault
Wi-Fi	Yellow	Lighting		Wi-Fi is not sensed.
	Green	Lighting		Normal
	Red	Lighting		Antennal Non-Connection
	Red	Blinking	500ms	WiFi Module Fault
Eth Port 1	Green	Lighting		Link Connection
	Green	Blinking		Data Transmission & Reception
Eth Port 2	Green	Lighting		Link Connection
	Green	Blinking		Data Transmission & Reception

Installation Preparation

Installation Method

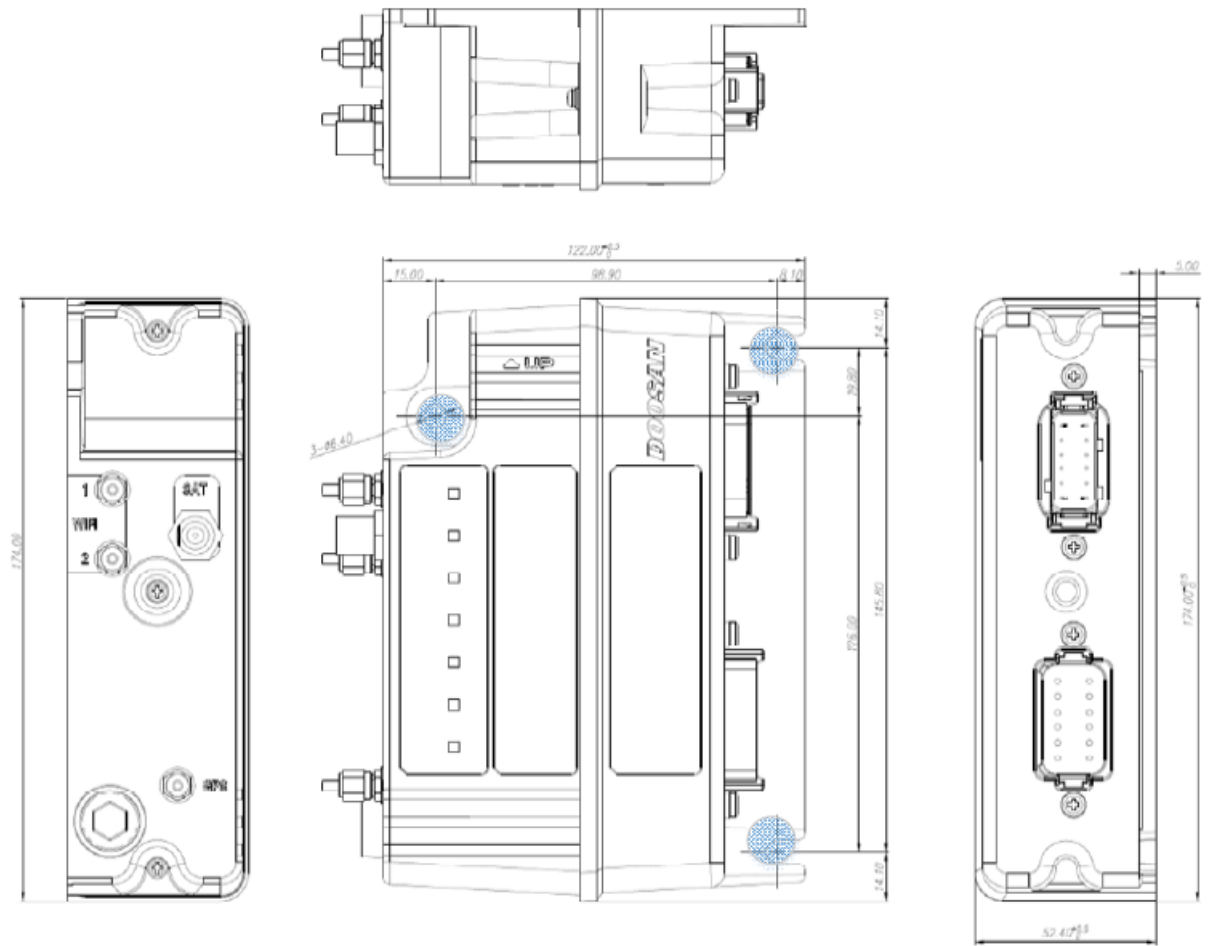


Fig. 4.1 Installation Block Diagram Of TMS3.0

- Blue Colored Location: Screw Hole Installation
- Mounting Height: Under 2m
- Screw Specification
 - PN: S0504653 (M6X1.0X16)
 - Surface treatment: Black
 - Strength: 8.8
 - Material: SM45C/SM50C

