USER MANUAL

T63, T63E

JIDO GPS FREIGHT TRACKER

24/7 TECHNICAL SUPPORT AT 1.877.877.2269 OR VISIT BLACKBOX.COM





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1. SPECIFICATIONS

SPECIFICATIONS (T63)	
COMMUNICATION	
GSM/GPRS DEFAULT	Quad band (850, 900, 1800, 1900)
OPTIONAL MODEMS	UMTS900/2100, UMTS850/1900
NUMBER OF SIMS	Dual
ΑΝΤΕΝΝΑ ΤΥΡΕ	Built-IN
DATA CHANNELS	SMS, TCP, UDP, PPP, FTP, HTTP, SSL, MQTT
BLUETOOTH [®]	V3.0 BLE Type 3.0, support SPP and HFP-AG profiles
LOCATION/GNSS	
SYSTEM	GPS/QZSS L1 C/A, GLONASS
SBAS	SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
CHANNEL/CHIP	33 Tracking Channels/99 Acquisition Channels, High-sensitivity Receiver
SENSITIVITY	Tracking & Nav: –167 dBm; Cold starts (aided): –149 dBm; Reacquisition: –161 dBm
HORIZONTAL ACCURACY	<2.5 m CEP
VELOCITY ACCURACY	0.2 m/s
ACQUISITION TIME	Cold start: 35 s; Aided Start: 2 s; Reacquisition: 1.5 s
SUPPORT AGPS	Yes
ΑΝΤΕΝΝΑ ΤΥΡΕ	Built-IN
BATTERY	
ТҮРЕ	Li ion rechargable
CAPACITY	15000 mAh/55.5 Wh
SENSORS	
ON-BOARD	Accelerometer
INPUT POWER	
DUAL POWER	5 VDC from charger 24 VDC input from battery
LOCKING/UNLOCKING MECHANISM	
MANUAL LOCK	Manual key to lock/unlock
ENVIRONMENTAL	
OPERATING TEMPERATURE	+14 to +140° F (-10 to +60° C)
STORAGE TEMPERATURE	-4 to +158° F (-20 to +70° C)
OPERATING HUMIDITY	5 to 95%, noncondensing
MECHANICAL	
DIMENSIONS	8.26" H x 5.12" W x 1.77" D (21 x 13 x 4.5 cm)
WEIGHT	Less than 1.76 lb. (800 g)
APPROVALS	
PROTECTION RATING	IP 65
CERTIFICATIONS	CE, RoHS, IP65, Drop Test 6ft, Vibration Test 1.5 g 3-Axis

CHAPTER 1: SPECIFICATIONS



SPECIFICATIONS (T63E)	
COMMUNICATION	
GSM/GPRS DEFAULT	Quad band (850, 900, 1800, 1900)
OPTIONAL MODEMS	UMTS900/2100, UMTS850/1900
NUMBER OF SIMS	Dual
ANTENNA TYPE	Built-in
DATA CHANNELS	SMS, TCP, UDP, PPP, FTP, HTTP, SSL, MQTT
BLUETOOTH®	V3.0 BLE Type 3.0, support SPP and HFP-AG profiles
LOCATION/GNSS	
SYSTEM	GPS/QZSS L1 C/A, GLONASS
SBAS	SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
CHANNEL/CHIP	33 Tracking Channels/99 Acquisition Channels, High-sensitivity Receiver
SENSITIVITY	Tracking & Nav: –167 dBm; Cold starts (aided): –149 dBm; Reacquisition: –161 dBm
HORIZONTAL ACCURACY	<2.5 m CEP
VELOCITY ACCURACY	0.2 m/s
ACQUISITION TIME	Cold start: 35 s; Aided Start : 2 s; Reacquisition: 1.5 s
SUPPORT AGPS	Yes
ANTENNA TYPE	Built-in
BATTERY	
ТҮРЕ	Li ion rechargable
CAPACITY	15000 mAh/55.5 Wh
SENSORS	
ON-BOARD	Accelerometer
INPUT POWER	
CHARGING	5 VDC from charger
LOCKING/UNLOCKING MECHANISM	
E-LOCK	Unlocking of the device can be done remotely using command through SMS or Bluetooth
ENVIRONMENTAL	
OPERATING TEMPERATURE	+14 to +140° F (-10 to +60° C)
STORAGE TEMPERATURE	-4 to +158° F (-20 to +70° C)
OPERATING HUMIDITY	5 to 95%, noncondensing
MECHANICAL	
DIMENSIONS	8.26" H x 5.12" W x 1.77" D (21 x 13 x 4.5 cm)
WEIGHT	Less than 1.76 lb. (800 g)
APPROVALS	
PROTECTION RATING	IP 65
CERTIFICATIONS	CE, RoHS, IP65, Drop Test 6ft, Vibration Test 1.5g 3-Axis







2. OVERVIEW

2.1 INTRODUCTION

The JIDO GPS Freight Tracker with Manual Lock (T63) or Electronic (E-) Lock (T63E) is used for transportation, logistics, shipment, and freight tracking.

It enhances end-to-end visibility of your assets and provides tampering alerts. This rugged device is weatherproof. Protected against man and nature, JIDO is IP65 rated and features a hardened plastic, tamper-proof design.

Using the JIDO device, the user can get a complete picture of freight shipments from anywhere with internet access. JIDO provides end -to-end visualization of shipments, and provides improved logistical tracking and improved security of valuable assets.

2.2 FEATURES

- IP65 rated waterproof and dustproof. Constructed of hardened plastic. Tamperproof design.
- Fast and easy installation. Simply attach JIDO and secure it on the magnetic mount.
- End-to-end visualization. Visualize cargo shipment on a map with alerts for any deviations from its schedule.
- Multiple sensors integration. Fast movement tilt lifting, door opening, lock opening and tampering, and temperature and humidity
- Sufficient data backup. Store more than 3 months of location data when the shipment was out of network
- Cargo safety: Alerts for any tampering, opening of lock, deviations from route, and unscheduled stops
- Seamless connectivity. Dual SIM connects to any geography. Connect via Bluetooth to latch on to the router of the ship during deep sea transport.
- Create routes. Trips, geo-fences, stops, and zones provide intelligent reports.
- Smooth tracking of device. Easy map-based system lets you track the device from the Web and a mobile app.

2.3 WHAT'S INCLUDED

Your package should include the following items. If anything is missing or damaged, contact Black Box Technical Support at 877-877-2269 or techsupport@blackbox.com.

- (1) JIDO GPS Freight Tracker with Manual Lock (T63) or Electronic (E-) Lock (T63E)
- (1) 1-A charger
- (1) data cable
- (1) set of keys (for manual lock version, T63 only)
- (1) battery





2.4 HARDWARE DESCRIPTION











2.5 TYPICAL APPLICATION



FIGURE 2-2. TYPICAL APPLICATION





3. MODE OF OPERATION

3.1 MODES

TABLE 3-1. MODES

MODE	MAIN BATTERY	MAIN POWER	SPEED
Truck	Connected	ON	> ()
Train	Disconnected	OFF	> ()
Yard	Disconnected	OFF	0

3.2 MODE CHANGE PROCESS FLOW

Truck Mode <----> Yard Mode <----> Train Mode

3.3 MODE DESCRIPTION

TABLE 3-2. EVENTS AND ALERT DATA

EVENT	NUMBER OF ALERT DATA SENT TO SERVER
Yard Mode to Train Mode	1. Location Data with Train Mode and Main Power off Status with speed > 0
Train Mode to Yard Mode	1. Location Data with Yard Mode and Main Power off Status with speed = 0
	1. Main Battery Disconnected Alert
Truck Mode to Yard Mode	2. Location Data with Yard Mode with Main Power off Status and Speed = 0
Vand Mada ta Truck Mada	1. Main Battery Connected Alert
Yara Mode to Truck Mode	2. Location Data with Truck Mode and Main Power on Status







4. ALERTS GENERATING FROM DEVICE

TABLE 4-1. ALERTS GENERATING FROM DEVICE

EVENT	ALERT DATA SENT TO SERVER
Yard Mode to Train Mode	Location Data with Train Mode & Main Power off Status with speed > 0
Train Mode to Yard Mode	Location Data with Yard Mode & Main Power off Status with speed = 0
Truck Made to Vard Made	Main Battery Disconnected Alert
Truck Mode to Yard Mode	Location Data with Yard Mode with Main Power off Status and Speed = 0
Vord Made to Truck Made	Main Battery Connected Alert
Taru Mode to Truck Mode	Location Data with Truck Mode and Main Power on Status

CHAPTER 5: INSTALLATION



5. INSTALLATION

5.1 CONNECT THE DEVICE WITH THE CONTAINER



FIGURE 5-1. CONNECT DEVICE WITH CONTAINER





CHAPTER 5: INSTALLATION



5.2 STEPS TO ACTIVATE THE DEVICE TO USE

- 1. Switch ON the device by pressing the Power button (The Power LED will light red.)
- 2. Wait for a few seconds until the GSM LED is blinking green. The maximum time until the GSM LED begins blinking is 3 minutes.
- 3. Wait for a few minutes until the GPS LED is blinking green. The maximum time until the GPS LED begins blinking is 5 minutes if it is already used in that location or up to 15 minutes for first-time use. Keep the device in open sky to get the GPS signal.

After you complete the steps above, the device is ready for use.





6. JIDO – WEB APPLICATION

Jido Web application's user interface and step-by-step instructions are next.

6.1 LOGIN

Log in to the system with the user name and password.



FIGURE 6-1. LOGIN SCREEN

6.2 DASHBOARD

After login, view the container status at a glance, including how many devices are active and inactive.



FIGURE 6-2. DASHBOARD



6.3 SETTINGS

After logging in as a Company user, the following menus appear.

- 1. Container
- 2. Device
- 3. Material
- 4. Route Management
- 5. Transporter
- 6. Trip Management



FIGURE 6-3. COMPANY USER MENUS

6.3.1 COMPANY CREATION

After logging in as a Distributor, you can add Company in this module.



FIGURE 6-4. ADD COMPANY SCREEN



6.3.2 CONTAINER

All the containers' details can be added from here. All users can edit the container details if required. The Device Assignment with container parts also can be handled from here.

					Stesalit Company	Admin 🧕
Settings - Container						
Name			Status			
Select an Option	*		Select an Option			*
Reset						Search
Show 10 v entries						\$
Name	Assigned Devi	rice	1	Status	+ Add Co	ntainer
RRU 1	X63000000000133			Active		٠
RRU 2	X63000000000121			Active		٠
Truck1	X6300000000122			Active		٠
RRU 3	X6300000000123			Active		٥
Showing 1 to 4 of 4 entries					Previous	1 Next
	Settings - Container Name Select an Option Tesse Show 10 entries RSU 1 RSU 2 Truck1 RSU 3 Showing 1 to 4 of 4 entries	Settings - Container Name Select an Option Prest Brow 10 • entries Mame Assigned Dev RRU 1 X63000000000133 RRU 2 X6300000000122 Truck1 X63000000000123 Showing 1 to 4 of 4 entries	Settings - Container Name Select an Option Flow 10 entries Name Assigned Device RRU 1 X630000000001133 RRU 2 X63000000000121 Truck1 X6300000000012 RRU 3 X6300000000123 Showing 1 to 4 of 4 entries	Name Status Select an Option Select an Option Feet Select an Option Show 10 • entries Select an Option Name Assigned Device REU 1 X65000000000123 REU 2 X650000000012 REU 3 X6500000000123 Showing 1 to 4 of 4 entries	Settings - Container Name Status Select an Option Select an Option Fest Select an Option Show 10 vertifies Status REU 1 X63000000000121 REU 2 X6300000000122 REU 3 X6300000000123 Showing 1 to 4 of 4 entries Active	Settings - Container Name Status Setect an Option Select an Option Freed Select an Option Brow 10 • entries Status REU 1 X63000000000133 REU 2 X63000000000122 Active REU 3 Showing 1 to 4 of 4 entries Previour

FIGURE 6-5. ADD CONTAINER SCREEN

Settings Sele Container Rese	ct an Option	* Select an	Option		
Container Rese					
					Searc
Aevice					
Aaterial Show	10 v entries				
oute Management	Name	Assigned Device		Status	
ransporter RRU 1	X6300000000133		Active		٠
rip Management RRU 2	X6300000000121		Active	🕼 Edit	
Truck1	x63000000000122		Active	O Unassign Device	
RRU 3	X63000000000123		Active	Delete	
Showing	1 to 4 of 4 entries			Dresious	

FIGURE 6-6. EDIT CONTAINER SCREEN







6.3.3 DEVICE

After logging in as a system admin user (Company), the user can add Jido devices.

lido							System Admin 🌾
JIGO	Settings - Device	Pres	s F11 to exit full screen				
hboard	Serial No.	Primary II	AFI	Primary Mobile	Statu		
a Management	Select an Option	Select an (Dption +	Select an Option	• Selec	t an Option	*
	Reset						Search
Management							
dor Management	Show 10 v entries						
	Serial No.	Primary IMEI NO.	Primary Mobile	Assigned To	Status	Loc +A	dd Device
	X63000000000122	345276519873654	3534534534	Stesalit Company(CHNVY5T)	Active	Open	٥
	X63000000000121	12345669865431234	9999999899	Stesalit Company(CHNVY5T)	Active	Open	٥
	X63000000000111	9835326384542625	9876543208	Stesalit SI(DUPWYL0)	Active	Open	٥
	X63000000000133	12345669865431235	7605034454	Stesalit Company(CHNVY5T)	Active	Open	٥
	X63000000000123	861359036896148	9876543210	Stesalit Company(CHNVY5T)	Active	Open	٥
	Showing 1 to 5 of 5 entries					Presi	New 1 New

FIGURE 6-7. ADD JIDO DEVICE SCREEN

6.3.4 DEVICE ASSIGNMENT

After logging in as a system admin user (Company User) you can assign Jido devices to a Distributor.



FIGURE 6-8. ASSIGN JIDO DEVICES TO A DISTRIBUTOR



6.3.5 ALERTS

Different kinds of Alert descriptions can be modified from this module.

lido							tem Admin 餐
JICO	Jido - Connecting Logistics						
Dashboard	Serial No.	Primary IMFI		Primary Mobile		Status	
Menu Management	Select an Option	Select an Option	•	Select an Option	•	Select an Option	
Settings	Reset						Search
Jser Management							
Vendor Management	Show 10 v entries						4
		Description				Status	
	Locked				Active		٥
-	Main Battery Disconnected				Active		٠
	Main Battery Connected				Active		٥
	Over Speed				Active		۰
	Route Diversion				Active		٥
	Trip End				Active		۰
	Trip Start				Active		٥
	UnLocked				Active		۰
	Device Tampered				Active		٥
	Zone-Out				Active		۰
	Showing 1 to 10 of 12 entries						

FIGURE 6-9. ALERT DESCRIPTIONS

6.4 USER MANAGEMENT

6.4.1 ROLE

Different Types of Roles can be added under this module.

lido			edmain 🛞
JICC	User Management - Role		
Dashboard	Show 10 v entries		۵
≡ Menu Management	Role Name	Status	
😂 Settings	Company Admin	Active	٥
💄 User Management	Control Center	Active 😰 Edit	_
	OEM	Active 💼 Delete	
 Vendor Management 	System Admin	Active	
	System Integrator Admin	Active	٠
	System Integrator User	Active	٥
	Showing 1 to 6 of 6 entries	First Previous 1 Nex	t Last

FIGURE 6-10. ADD ROLES



6.4.2 USERS

 \otimes Jido User Management - Use Dashboard Mobile Status Name Role ■ Menu Manage Select an Select a Select a oc s v entrie ٥ 😂 Vendor Management + Add Use Name U Active ۰ 9903710719 Subhadi alit@gmail.c Anirba 943348284 ۰ Active stesalit@gmail.com bany Admi dmin@gmail.com Stesalit C 9876543210 Active ۵ steso Company Admin Stesalit SI Admin 9876543218 in@gmail.com System Integrator Admin Active • stesado 9876543210 ٠ System Admin Active abb.com vstem Admin Showing 1 to 5 of 5 entries 1

Add different types of users under the Users module. Assign roles to Users from here.

FIGURE 6-11. ADD USERS

6.5 VENDOR MANAGEMENT

After logging in as a System Admin (Company User), an OEM can add all the Distributors' details using this module.



FIGURE 6-12. ADD DISTRIBUTERS' DETAILS

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6.6 ROUTE MANAGEMENT

Create routes based on Starting point and Destination Point and minimum distance between points.

lido							y Admin 🧕		
JIGO	Settings - Route								
Dashboard	Name		Statue						
C Settings	Select an Option	Select an Option				•			
l Report	Reset						Search		
Tracking									
	Show 10 v entries				_		•		
	Route Name	Route Id	Start Location	End Location	Route Typ	+ Add Route			
	Test Route	f00bd6fb-feb6-4535-a745-11d0d23f5c0a	22.569234,88.435591	22.569957,88.431264	Driving	Active	٥		
	KLY TO ROY & DUTTA ENTERPRISES	555739c1-7cac-476e-b6f0-5f098ba557fb	22.959487,88.457042	22.711313,88.413117	driving	Active	٥		
	SSL to SDH	10fa5fb7-78d2-46ca-8493- 6ad3d66b22d2	22.505,88.3194	22.5691,88.4357	driving	Active	۰		
	Showing 1 to 3 of 3 entries					Previous	1 Next		

FIGURE 6-13. ADD ROUTES

View the created Route on a Map.



FIGURE 6-14. ROUTE, MAP VIEW





6.7 TRIP MANAGEMENT

Create a Trip following the route. Add Driver details, and Trip Start and End time.



FIGURE 6-15. CREATE TRIP

6.8 REAL TIME TRACKING

View four screens to monitor the live movement of four containers at a time simultaneously or in a single Window (map view) by maximizing the window.



FIGURE 6-16. REAL-TIME TRACKING





FIGURE 6-17. REAL-TIME TRACKING

6.9 HISTORY PLAYBACK

Monitor the container's movement and stoppages by playing the history data by selecting the "to date", "from date" and "to time", "from time".



FIGURE 6-18. HISTORY SCREEN





6.10 GEO-FENCE CREATION (UNLOADING POINTS)

Based on provided coordinates, you can create Geo-Fences. Those Geo-Fences are nothing but the unloading points of the containers. View those created Geo-Fences on the Map.

lido			Stesalit Company Admin
JICIC	Settings - Unloading Points		
III Dashboard	Name	Status	
¢€ Settings	Select an Option	Select an Option	•
🖽 Report	Reset		Search
	Show 10 v entries	Ct. tur	+ Add Unloading Point
	ST Tower	Active	•
	Showing 1 to 1 of 1 entries		Designer 1 Hard
			Previous Internet

FIGURE 6-19. ADD UNLOADING POINT, SCREEN 1

lido				mpany Admin 🔵
J.C.C	Settings - Unloading Points			
III Dashboard				
© Settings	Add Unloading point	Latitude*	Longitude*	
ビ Report	Name	Latitude	Longitude	
4. Tracking	Buffer (in mtr)*	Status		
a risering	Buffer	Active	•	
	Dack			Save

FIGURE 6-20. ADD UNLOADING POINT, SCREEN 2







6.11 REPORTS

Multiple MIS reports are available in this portal such as:

- 1. Close Case/Trip Report
- 2. Open Case/Trip Report
- 3. Detail Trip Report

You can download reports in Excel and PDF format.



FIGURE 6-22. REPORT OPTION

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A Detailed Trip Report is shown next.

lido									Admin
JIGO	Trip Report								
III Dashboard	Date*		Trip Status	4					
© Settings	08-02-2021		Trip Schedu	led					
Left Report	Reset						Download Excel	Download PDF	Search
A Tracking									_
	Show 10	✓ entries							_
<u> </u>	Driver Name	Driver Contact No	Route Name	Distance (Km)	Tripstatus	Trip Start Time	Trip End Time	Challan No.	Status
	David	9876543210	Test Route	1	Trip Scheduled	08-02-2021 06:00:00	08-02-2021 21:00:00	1612788597	Active
	Showing 1 to 1 of	1 entries						Previous	1 Next
									-

FIGURE 6-23. DETAILED TRIP REPORT





7. JIDO – MOBILE APP

The Mobile app is nothing but the replica of the web application to monitor the real-time status of the containers including their live tracking, alerts details, and history data monitor for immediate action and control.

Below are the Login and Dashboard pages of the mobile application. The Android version of the web application is available in the Google Play Store.





FIGURE 7-1. LOGIN AND DASHBOARD PAGES OF MOBILE APP





CHAPTER 8: STEPS TO ACTIVATE THE DEVICE TO USE



8. STEPS TO ACTIVATE THE DEVICE TO USE

- 1. Switch ON the Device by pressing Power Button (Power LED will glow red).
- 2. Wait for a few seconds until the GSM LED starts blinking (green). The maximum time is 3 minutes.
- 3. Wait for a few minutes until the GPS LED starts blinking (green). The maximum time is 5 minutes in an already-used location or 15 minutes for first-time use. The device must be kept in open sky to get the GPS Signal.
- 4. Once all the above conditions are fulfilled, the device is ready for use.
- 5. The device can't be switched off using the Power button. It can only be switched off using SMS from the registered mobile number to the Primary SIM, i.e. SIM One.

Message to Device	Return Message from Device	
Example	Success	Failure
*17,off#	POWER OFF Successful	POWER OFF Failed
	*Device ID, Command ID, status#	





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