

STOCK BOX USER MANUAL



Product name	STOCKBOX™ user manual		
p/n		Product rev.	A01
Document p/n	LT-D-0101	Document rev.	01
date	14/11/2011	Author name	Golan K.

Documents changes and version			
Date	Name	Change description	version
14/11/2011	Golan K	Document release	01

1. Safety Instructions / Warning - Read before start-up !

- The device may only be used for the purpose intended by the manufacturer.
- The operation manual should be kept readily available at all times for each user.
- Unauthorized changes and the use of spare parts and additional devices which have not been sold or recommended by the manufacturer may cause fire, electric shocks or injuries. Such unauthorized measures shall exclude the manufacturer from any liability.
- The liability-prescriptions of the manufacturer in the issue valid at the time of purchase are valid for the device. The manufacturer shall not be held legally responsible for inaccuracies, errors, or omissions in the manual or automatically set parameters for a device or for an incorrect application of a device.
- Repairs may only be undertaken by the manufacturer.
- Installation, operation, and maintenance procedures should only be carried out by qualified personnel.
- Use of the device and its installation must be in accordance with national legal requirements and local electrical codes.
- When working on devices the valid safety regulations must be observed.

2. System description and operation

The STOCKBOX is a system for automating reordering operations in healthcare, manufacturing and other environments. By pre-encoding stock-cards carrying 13.56MHz RFID transponders (ISO-15693) and placing them in bins at the reordering level, users can perform a reorder operation by simply placing the card into the StockBox. The StockBox is designed to identify the cards inserted through its slot, and send the data to a remote server.

The StockBox supports replenishment monitoring performed by authorized personnel, by scanning their employee badge and the individual cards, before they are placed back into the bin.

The StockBox includes an RFID module at operating frequency of 13.56MHz, 0.2W maximum transmitting power. It has 4 LED as a display and 1 pushbutton.

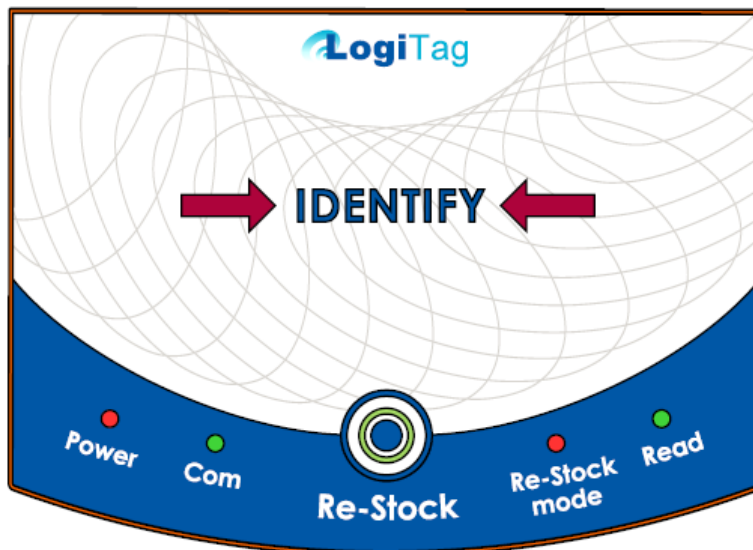


The system has 4 interface connectors:



- RJ45 adaptor for Ethernet connection
- D-type 9 pin female connector for RS232 connection
- power supply: plug connector size of 5.5*2.1mm
- SMA female connector for optional GPRS module antenna

2.1 LED Display And Button



Led indicators:

- **Power** – LED is on when StockBox is connected to power.
- **Com** – LED is on when Ethernet interface is connected.
- **Re-stock button and LED** – Pressing the **Re-Stock** button will put the StockBox into "Restocking mode" for 1 continuous minute, during which the "Re-Stock Mode" LED will be ON.
- **Read** – LED is on whenever the system identifies a transponder either at standard or re-stock mode.

2.2 Power Supply Connection

- Allowed supply voltage: 12-24V +/-5%.
- System's DC supply connector: male jack size 5.5*2.1mm.
- Use of higher supply voltage can damage the system!!
- Use only authorized class B power supply certified device.
- The current consumption of the device (with GPRS connection) is 0.3A@12V.

2.3 Ethernet connection

Use CAT5E cable, shielded SFTP.

2.4 RS232 interface

- Standard RS232, port settings:
 - baud rate 115200b/s
 - data bits=8
 - parity=none
 - stop bit=1
 - flow control=none
- Use standard cable with male D-type 9 pin connector, pin out:
 - Pin 2-Tx
 - Pin 3-Rx
 - Pin 5 – GND

2.5 GPRS antenna connection

In StockBox systems with the optional GPRS module installed, connect the GPRS antenna supplied with the system and mount it on the system enclosure or any near-by allowed surface.

2.6 RFID transponders

The system supports ISO15693 transponders.

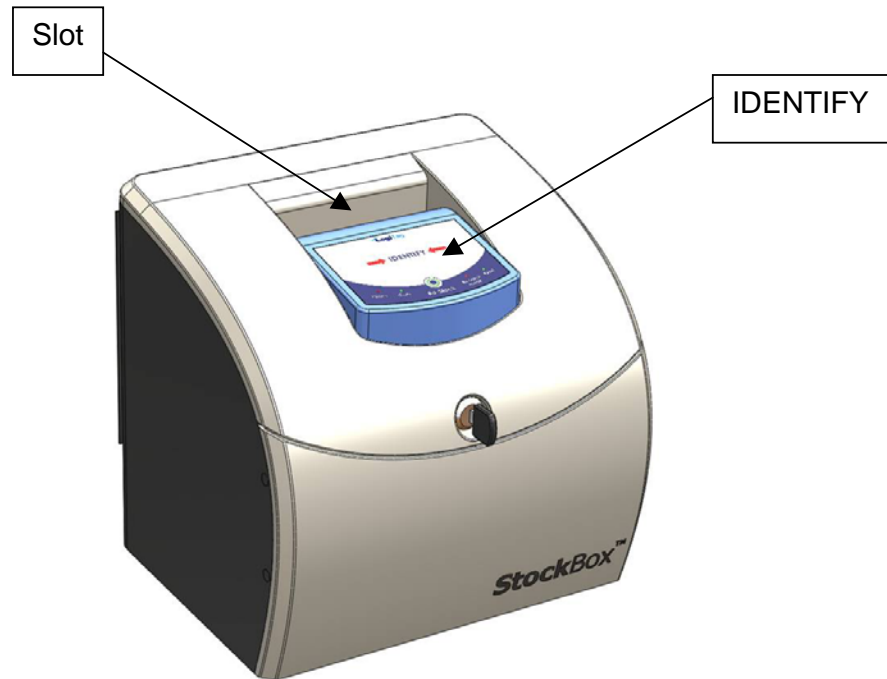
2.7 System operation:

To operate the system:

1. Connect power supply to the power plug and see that the Power LED is ON.
2. Connect LAN or RS232 port to the host computer (section 2.3 and 2.4).
3. Run the StockBox software at the host computer
4. Insert transponders to the slot and see that the "Read" LED is ON



5. Monitor on the host computer's screen the identified transponders
6. Insert only one transponder at a time.
7. To perform Re-Stock operation:
 - a. Open the StockBox lock and remove all the transponders.
 - b. Press the Re-stock button,
 - c. Put your badge on the "IDENTIFY" area on the StockBox and see that the "Read" LED turns ON.
 - d. Put the cards taken out of the StockBox on the "Identify" area one after another. Wait 3 seconds between each transponder. Each time the Read Led should be on.



3. Radio approvals:

Product name: StockBox™

FCC ID: Z97-STB01

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.

Warning:

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (LogiTag Systems Ltd.) could void the user's authority to operate the equipment.

3.1 EUROPE:

4. System Technical data:

- Mechanical data:
 - Dimensions (Wx L x H) 290*200*180mm
 - Weight approx. 3Kg
- Electrical data:
 - Supply voltage 12-24V +/-5%
 - Power consumption 3.6VA
 - RFID transmitting power 0.2W
- Interface:
 - Ethernet
 - RS232
- Supporting transponders:
 - ISO15693
- Temperature range:
 - Operation: -20°C to +55°C
 - Storage: -20°C to +85°C
 - Humidity: 5%-70%

- Applicable standards:
 - RF approval:
 - Europe
 - USA
 - EMC
 - Safety