



HMI User Guide

Version 1.0 • 14 October 2022

FCC Statement

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.

Caution: Changes or modifications to this unit 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.

Certain of the unintentional radio frequency radiators in this vehicle that operate under Part 15 of the FCC Rules are exempt from a specific FCC approval requirement but are still subject to the requirement to operate without causing harmful interference. FCC Rules provide that the operator of the exempted device shall be required to stop operating the device upon a finding by the Federal Communications Commission or its representative that the device is causing harmful interference.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

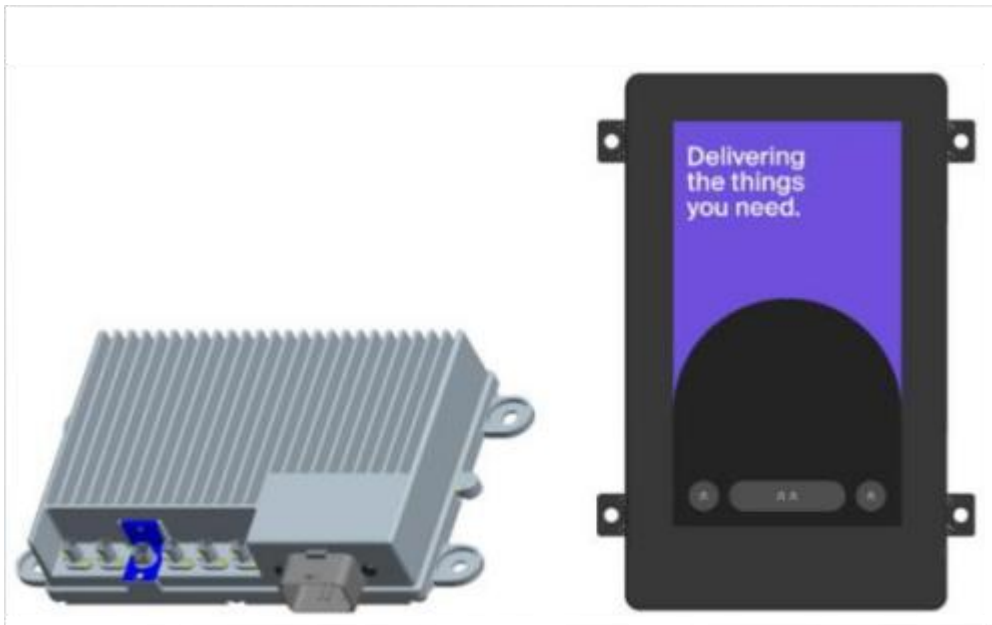
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This device includes a radio frequency identification device that operates under Part 15 of the FCC Rules and has been approved under the certification approach under FCC ID: XMR201707BG96 Operates under FCC Rule Parts 22, 24, and 27.

1. Abstract

HMI is a subsystem of a project on an unmanned freight trolley customized by BYD for customers. Monitoring, intelligent voice, RFID near field communication and other main functions, assist customers in fast order processing, vehicle management and maintenance, etc.



HMI Main BOX+Display ▲

2. Product Specifications

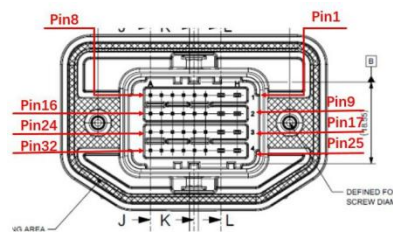
Processor	MTK MT2712S
Storage	64GB eMMC +4GB LPDDR4
Operating System	Android 9.0
Display	12.8" 1920*1080
Communication interface	RFID
	LTE Band4 Band13
	100BASE-T1
Audio	Speaker 15W*1
	Microphone*2
Camera	960P*2
Sensor	Ambient Light Sensor
Operating Voltage	10-16VDC@3A
Working Temperature Range	-30~70°C
Storage Temperature Range	-40~85°C
IP Level	IP67

3. Product connection

3.1 BOX connection

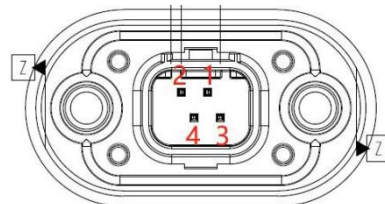


Main box connector number ▲



BOX M1 Main connector pin number ▲

3.2 Display Module Connection



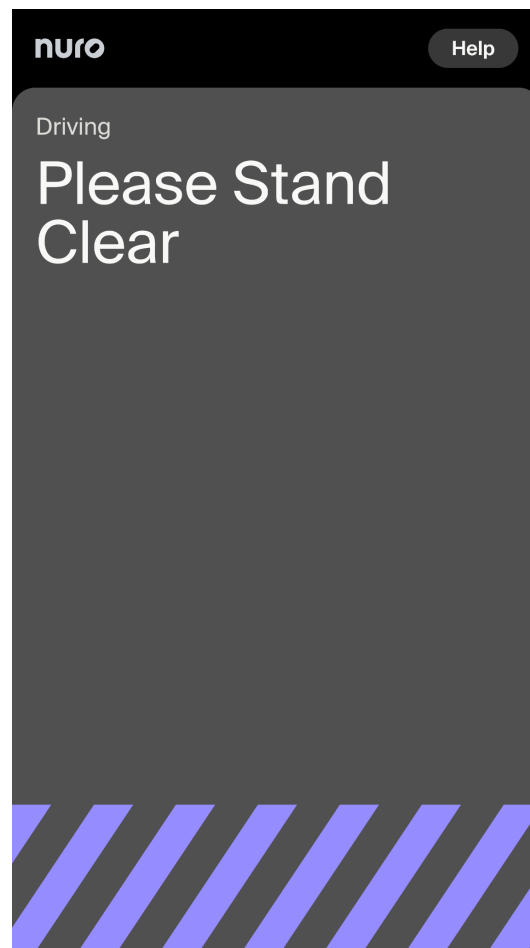
Display Module pin number ▲

Delivery Instructions

The product is loaded on the delivery truck display components, its usage is the pictures showed on the manual, users touch the screen, input pick-up code, open the door, pick up objects, close the door, please see the chart below:

- Consumer Unloading (Groceries)

Parking



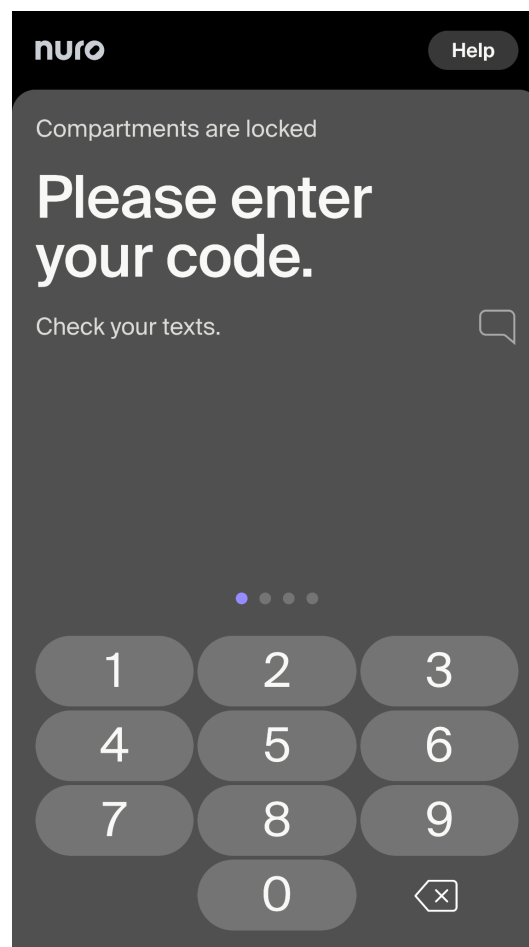
Consumer Unloading (Groceries)

Consumer Greeting



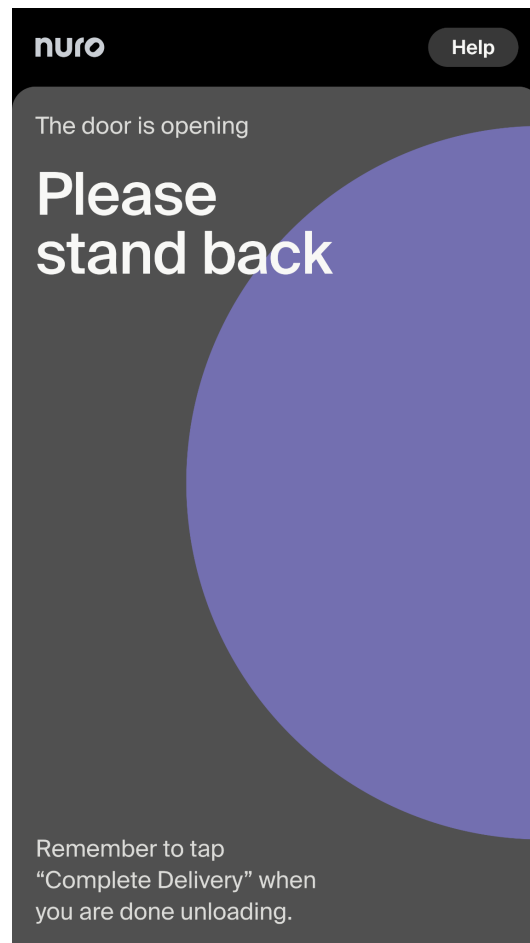
Consumer Unloading (Groceries)

Authentication



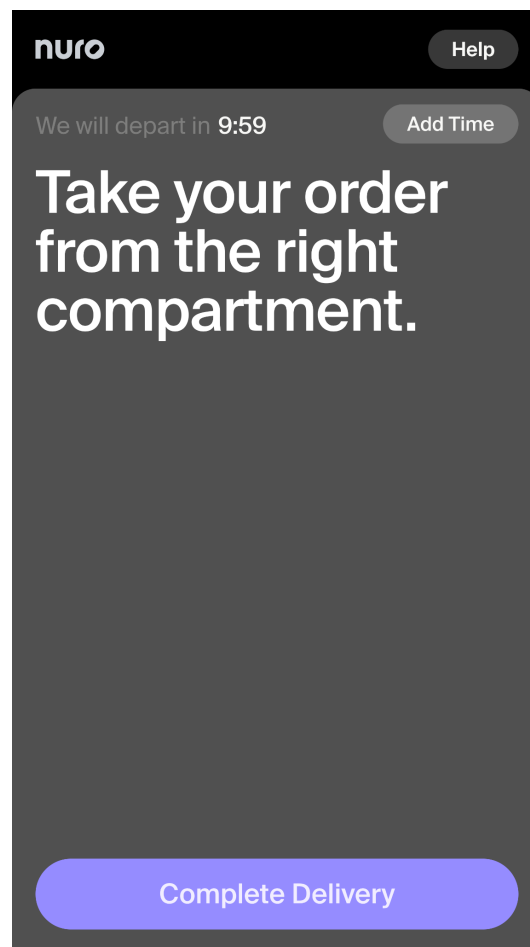
Consumer Unloading (Groceries)

Door Opening



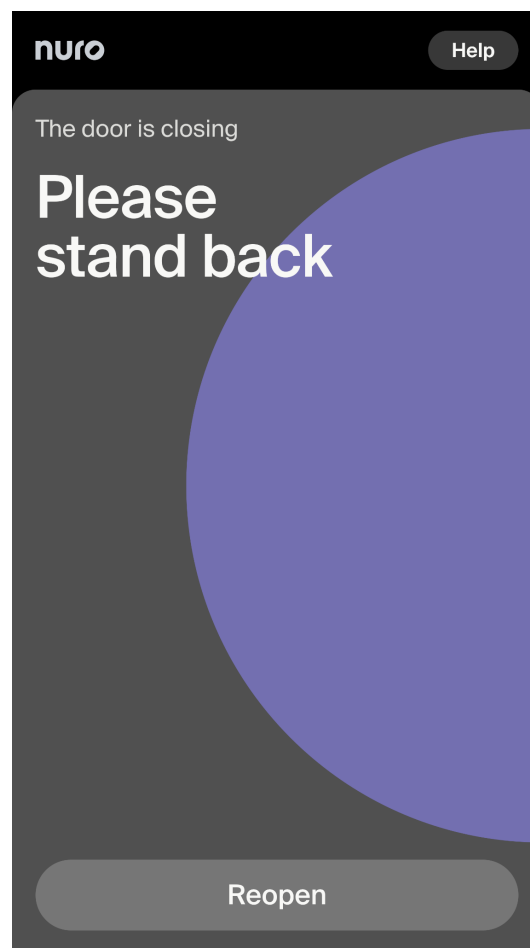
Consumer Unloading (Groceries)

Removing Items



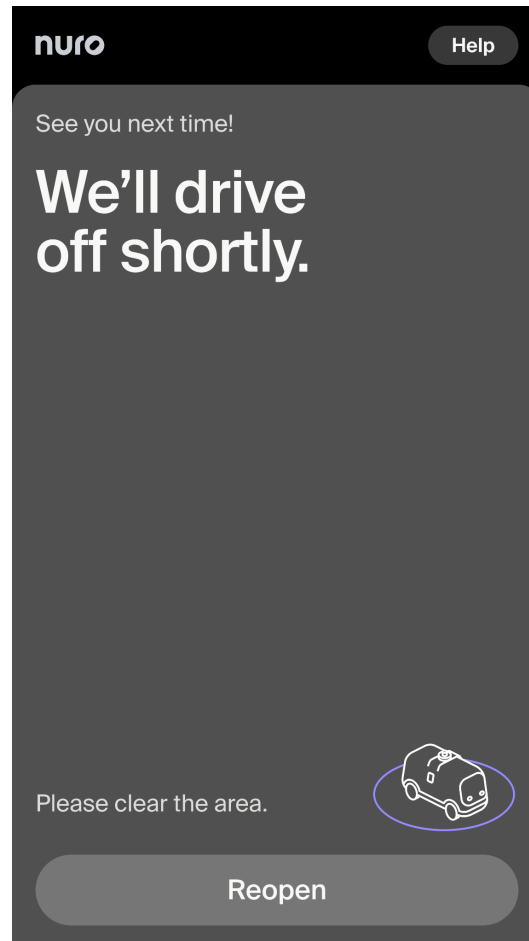
Consumer Unloading (Groceries)

Door Closing



Consumer Unloading (Groceries)

Departure



Consumer Help Experience

-Partner Loading (Groceries)

Parking

