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Foxconn GLOBE HMI-01 Globe Rocker Display

Product Specifications

Model Name	Globe Rocker Display
Model No	GLOBE HMI-01
Size	L 50mm x W 60mm x H 58mm
LCM Specification	Color LCD (240 x 320 Pixel)
Material	PC/ABS (35% Recycled Material) PC
Screen Type	2" TFT LCD w/LED back-light
Power	Operating Voltage 48Vdc Typical
Current	20Ma
Operation Temperature	-20°C~70°C
Ingress Protection Rating	IPX6
Protocol	CAN 2.0
Physical Button	4(Up/Down/Fun/Power)
Wireless Interface	BLE 5.1
Charging Output	USB Type C: 5V / 1500mA
Functions	PAS level/Speed/ODO/Trip/Walk/Battery Status/Light Status/Error Status/Charging Status
Antenna	ANT162442ST-1000AM1
Data Rate	Bluetooth® 5 – 2 Mbps, 1 Mbps
Antenna Type And Gain.	Chip Antenna And Gain 1.6dBi

Product Overview

The Globe Rocker Display is a compact device designed for displaying information

related to PAS level, speed, ODO, trip, walk, battery status, light status, error status, and charging status. It features a colour LCD screen with LED back-lighting and physical buttons for navigation.

Product Usage Instructions

1. **Power On/Off:** Press and hold the Power button to turn the device on/off.
2. **Navigation:** Use the Up and Down buttons to navigate through different options.
3. **Function Selection:** Press the Fun button to select a function or option.
4. **Charging:** Connect the USB Type-C cable to charge the device using a power source.

Warning

This device complies with FCC Rules and should not cause harmful interference. Any modifications not approved may void the user's authority to operate the equipment. Keep the device away from the body during operation.

Copyright Notice

Purpose

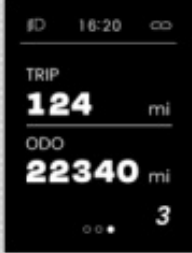- This document describes the product specification for Globe Rocker Display. This is based on the customers' requirement
- specification. Foxconn Interconnect Technology Ltd. also uses this document to develop the system. Based on this specification, the 3ra party team can refer to it to understand the details of this product.

Outlook Diagram

Figure 1 Outlook Diagram

Operation Guide

| Interface		Function Description
Interface		**Opening** Long Press 3sec Power button **Power On** Welcome screen
		Riding Information 1. Light (Long Press the 2 sec (+) button to switch light, ON-OFF-ON cycles) 2. Current time 3. Bluetooth connection status 4. Battery level (Total power battery level) 5. Current speed 6. Unit 7. Riding level (Click the (+) / (-) button to increases or decreases the amount of support) 8. Paging icon Click FUN Button **Screen scroll** : Cycles through the pages GRD HMI preset 0-6 level. Note: G1-G3 (0-1-2-3-4-5) level. G5 (0-1-2-3) level.
		Battery Data 1. EST RANGE 2. BATTERY Click FUN Button **Screen scroll** : Cycles through the pages GRD HMI preset 0-6 level. Note: G1-G3 (0-1-2-3-4-5) level. G5 (0-1-2-3) level.
		Trip Data 1. TRIP (Long press 4sec FUN key to clear TRIP) 2. ODO Click FUN Button **Screen scroll** : Cycles through the pages Note: G1-G3 (0-1-2-3-4-5) level. G5 (0-1-2-3) level.
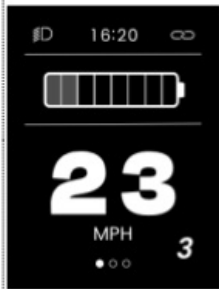
Low Battery

Battery level:
2 grids (solid): 17~28%, 3:29~40%, 4:41~52%, 5:53~64%, 6:65~76%, 7:77~88%,8:89~100%
2 grids (flashing): 0~16% (Low battery)
When E-bike is in a low battery state (0~16%), the 2 grid battery icons will flash animations until the battery is exhausted.

*Note: GRD HMI had not 1 grid battery status.

Battery status :

89~100%		41~52%	
77~88%		29~40%	
65~76%		17~28%	
53~64%		0~16%	

* Low battery : 2(flashing):0~16%
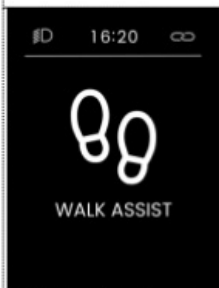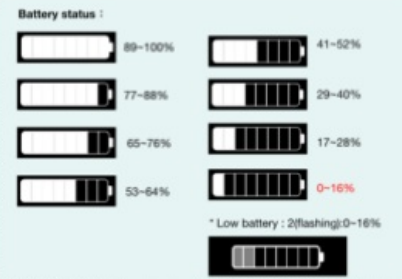
Walk Assist

Long pressing and holding (-) button to trigger the walk assist.
Pressing and holding activates the walk-assist mode, and the display will pop up walk-assist animation.
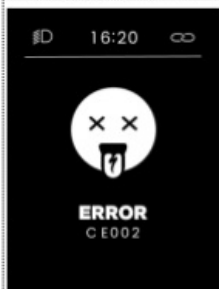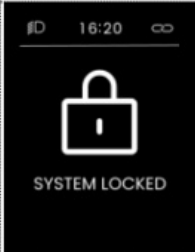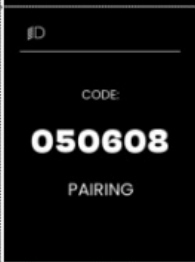
Error Code

Error: (Alert) : If the system detects an error, the display will alert the user with an error code.

Serious Error:
1. When the error occurs show the error code on the screen.
2. If multiple errors occur simultaneously, display the next error code after 3 sec, and repeat in a loop.
3. The device can be power off via the power key or the app.
4. Power on again. The error code will continue to be displayed until the error is resolved.
5. The device can be charged, but the error code will still be displayed on the screen.

		General Error 1.The error code will be displayed once and disappear after 5 sec. 2.If multiple errors occur simultaneously, display the next error code after 5 sec. 4.The device can be charged, but the error code will still be displayed on the screen. 5.Return to the main page after troubleshooting. **Serious Error & General Error:** ＊The error code is recorded in the APP. ＊The format of error code : C E0XX, B1 E0XX, B2 E0XX.
	⏚D 16:20 ∞ 🔒 SYSTEM LOCKED	**System Locked** 1. The lock mode flow in the mobile phone App and GRD HMI. 2. In Lock mode, all button functions except for the power key are disabled. 3. In Lock mode, the HMI can perform the first Bluetooth connection, and the background can automatically reconnect to Bluetooth in case of disconnection.
	⏚D CODE: **050608** PAIRING	**Pairing** 1. Connection failure/cancel: Back to the previously page with no Bluetooth icon and The RTC displayed. 2. If there is no pairing operation, it will return to the previous page after 6 sec 3. Click any key can back to the operation page. 4. The Bluetooth pairing code is fixed (not random), and the source method is provided by SBC. 5. Pairing code: HMI randomly generates a 6-digit pairing code.
	GLOBE	**Power Off** Long Press the 4 sec Power Button to trigger power OFF. Shows the GRD HMI Logo screen.

F CC 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.

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 according to 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 to 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.

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated, keeping the radiator at least 20cm or more away from the person's body.

This device contains licence-exempt transmitter(s)/receiver(s) 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, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

FAQs

Q: What is the wireless interface used by the Globe Rocker Display?
A: The device uses Bluetooth 5.1 for wireless communication.

Q: What is the charging output specification of the Globe Rocker Display?

A: The charging output is USB Type C with a rating of 5V / 1500mA.

Documents / Resources

	[Foxconn GLOBE HMI-01 Globe Rocker Display](#) [[pdf](#)] User Guide GLOBE HMI-01, GLOBE HMI-01 Globe Rocker Display, GLOBE HMI-01, Globe Rocker Display, Rocker Display, Display

References

- [User Manual](#)

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