

USB Information

Command Documentation for USB

1.Command: **getvolume**

Description: Get the current volume level.

Response: Current Volume: 18

2.Command: **setvolume**volume**

Description: Set volume directly to a specific level.

Example: setvolume**21

Response: Volume set to: 19

3.Command: **+ / -**

Description: Increment (+) or decrement (-) volume manually.

Response (+): Volume: 20

Response (-): Volume: 19

4.Command: **play**filename**

Description: Play an MP3 file stored in the 'mp3' folder.

Example: play**1.mp3

Response: No response provided.

5.Command: **delete**foldername**filename**

Description: Delete a file from a specific folder.

Example: delete**mp3**1.mp3

Response: Full path to delete: /mp3/1.mp3

Response: File deleted: /mp3/1.mp3

6.Command: **delete**foldername**filename**

Description: Delete a JPEG file from the 'images' folder.

Example: delete**images**2.jpeg

Response: Full path to delete: /images/2.jpeg

Response: File deleted: /images/2.jpeg

7.Command: **fileinfo**

Description: Get information about JPEG files stored in SPIFFS.

Response:

```
{  
  "images": [  
    {"filename": "1.jpeg", "size": 94597},  
    {"filename": "2.jpeg", "size": 20350},  
    {"filename": "3.jpeg", "size": 61545},  
    {"filename": "4.jpeg", "size": 86536}  
,  
  "totalBytes": 1799921,  
  "usedBytes": 521578,  
  "availableBytes": 1278343  
}
```

8.Command: **fileinfomp3**

Description: Get information about MP3 files stored in SPIFFS.

Response:

```
{  
  "mp3files": [  
    {"filename": "1.mp3", "size": 103016},  
    {"filename": "2.mp3", "size": 149667}  
,  
  "totalBytes": 1799921,  
  "usedBytes": 521578,  
  "availableBytes": 1278343  
}
```

9.Command: **sending**filename**filesize**chunksize**

Description: Upload JPEG files in SPIFFS under 'images' folder.

Example: sending**1.jpeg**14114**1024

Response: "ok" after each chunk.

10.Command: **sendingaudio**filename**filesize**chunksize**

Description: Upload MP3 files in SPIFFS under 'mp3' folder.

Example: sendingaudio**1.mp3**14114**1024

Response: "ok" after each chunk.

11.Command: startrotation

Description: Start rotation mode.

Response: Command received. Starting rotation mode...

12.Command: stoprotation

Description: Stop rotation mode.

Response: Rotation mode stopped.

13.Command: startsendingfile filename.jpeg filesize

Description: Upload an image to RAM and display it.

Example: startsendingfile welcome.jpeg 16771 Response:

Command received. Preparing to receive file...

Response: Image Displayed Successfully.

14.Command: startsendingaudio filename.jpeg filesize

Description: Upload MP3 data to RAM.

Example: startsendingaudio welcome.mp3 16771 Response:

Command received. Preparing to receive file...

Response: MP3 Data received successfully.

15.Command: freesize

Description: Check available memory.

Response: 1278343 exit

16.Command: settimerseconds**

Description: Set a timer in seconds.

Example: settimer**2

Response: New timer set to 2 seconds. exit

Command Documentation for WIFI-MQTT

1) Display Welcome Screen

```
{"screen":"WelcomeScreen","data":{ "title":"Welcome to Easovation Solutions","img":""}}
```

2) Display Total Screen Data

```
{"screen":"DisplayTotalScreen","data":{ "TotalAmount":100,"Discount Amount":20,"TaxAmount":10,"GrandTotal":90,"img":""}}
```

3) Display QR Code Screen

```
{"screen":"DisplayQRCodeScreen","data":{ "QrCodeBase64":"","UPIUrl ":"upi://pay?pa=63270083167.payswiff@indus&pn=Bonrix&cu=INR &am=10&pn=Bonrix%20Software%20Systems","Amount":10,"CompanyNam ":"Bonrix Software Systems","ShopName":"Easovation","img":""}}
```

4) Display Success QR Code Screen

```
{"screen":"DisplaySuccessQRCodeScreen","data":{ "OrderId":123567,"BankRef":21354,"Amount":100,"Date":1768889917651,"img ":""}}
```

5) Display Cancel QR Code Screen

```
{"screen":"DisplayCancelQRCodeScreen","data":{ "OrderId":123567,"BankRef":21354,"Amount":1000,"Date":1768889917651,"img ":""}}
```

6) Display Fail QR Code Screen

```
{"screen":"DisplayFailQRCodeScreen","data":{ "OrderId":123567,"BankRef":21354,"Amount":2000,"Date":1768889917651,"img ":""}}
```

WIFI Information

Model: BEI-SRD-001-USB+WIFI + MQTT

Step1: Display message:

Bonrix Embedded Innovations

Device Name: Bonrix 7 inch Smart Retail Display

The All-in-One Customer Facing Solution

Digital Signage + DQR UPI Payment + Billing Screen

Item Code: BEI-SRD-001-USB+WIFI+MQTT

Command Type: Send JPEG

JPEG Size: 320 X 480 Pixels

Display Type: DQR + ImageRotation

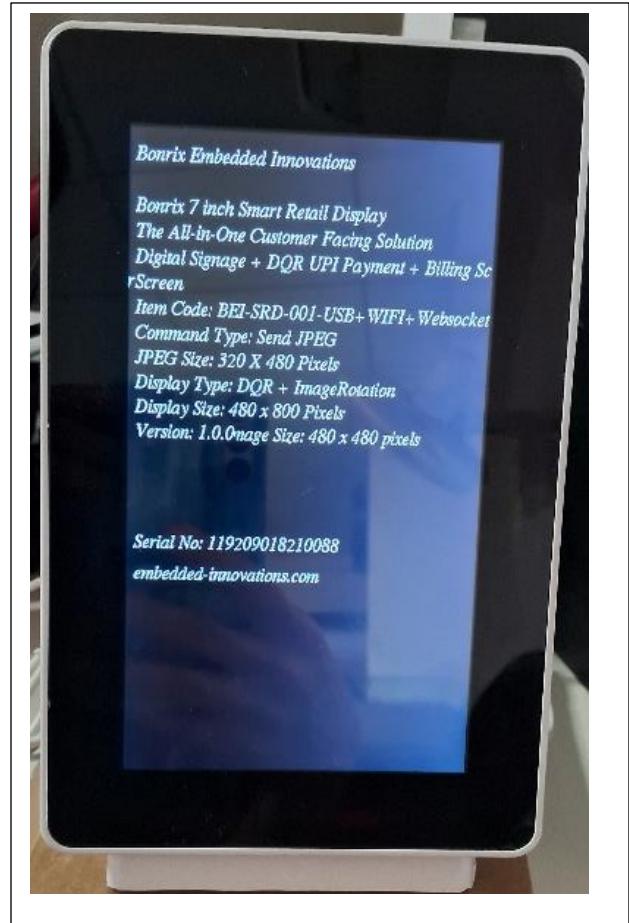
Display Size: 480 x 800 Pixels

Promotional Image Size: 480 x 480 pixels

Version: 1.0.0

Serial No: 119209018210088

embedded-innovations.com

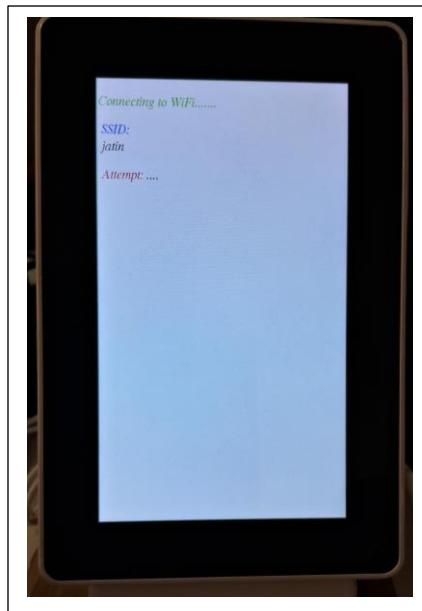


Step2: Find Wifi Connection:

Connecting to WiFi.....

SSID : jatin

Attempt:



Step3:Hotspot Mode:

IP: 192.168.4.1

SSID: Bonrix

MAC: 2A:37:2F:83:6B:6C



Step4:Connect**Bonrix**Wifi:

→ConnectWith**Bonrix**Wifi

Step5:WifiConfigPage:

Select your Wifi Or Enter SSID And Password

For example:

Wifi Name:-JioFiber-EASO

Password:- *****



Step:6 Wifi Mode:

IP: 192.168.29.22

SSID: JioFiber-EASO

MAC: DC:DA:0C:A1:58:70

→ Scan QR for Configuration page



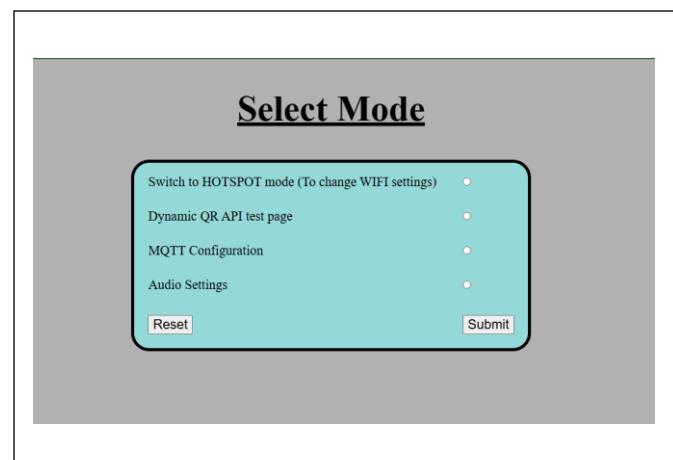
Step7: Open Web Page:

→ click on Choose any configuration option

Step8: Click to Switch to Hotspot mode :

→ previous wifi credential are reset and switch to

Hotspot mode



Step9 : Click to Dynamic QR API test page :

1. Simple Text Screen

Description: Allows entering a custom text string and displaying it on the screen.

Title: Enter Your Name (text input)

Buttons: Reset, Submit

Usage: Submit a name or message → appears on display.

1. Simple text



URL : http://localhost:8080/Welcome/Welcome?title=String&name=String
res=ok

2. Welcome Message



URL : http://localhost:8080/Welcome/Welcome?title=String&name=String
res=ok

3. Display Total Screen



URL : http://localhost:8080/Welcome/Welcome?totalAmount=String&discountAmount=String&taxAmount=String&grandTotal=String
res=ok

4. Display QR Code Screen



URL : http://localhost:8080/Welcome/Welcome?qrcodebase64=String&upi=String&amount=String&companyName=String&shopName=String
res=ok

5. Display Success QR Code Screen



URL : http://localhost:8080/Welcome/Welcome?orderId=String&bankRef=String&date=String&amount=String
res=ok

6. Display Cancel QR Code Screen



URL : http://localhost:8080/Welcome/Welcome?orderId=String&bankRef=String&date=String&amount=String
res=ok

7. Display Fail QR Code Screen



URL : http://localhost:8080/Welcome/Welcome?orderId=String&bankRef=String&date=String&amount=String
res=ok

2. Welcome Message Screen

Description: Displays a static welcome message.

Form Fields:

Title: Welcome to Eastowafcon Sci

Buttons: Reset, Submit

Usage: Click Submit → welcome screen shows on display.

3. Display Total Screen

Description: Shows a breakdown of costs with discount, tax, and grand total.

Form Fields:

Test Amount: 43

Discount Amount: 10

Tax Amount: 10

Grand Total: 23

Buttons: Reset, Submit

Usage: Enter amounts → Submit → total screen displayed.

4. Display QR Code Screen

Description: Shows a QR code with payment details.

Form Fields:

Qrcodebase64: Boninx

UPI Uni: URL/login/?qap=63270033167

Amount: ICO

Company Name: Boninx Software Solutions

Shop Name: Z4f85258511@uci

Buttons: Reset, Submit

Usage: Fill all fields → Submit → QR code screen displayed.

5. Display Success QR Code Screen

Description: Shows a success screen with transaction details.

Form Fields:

Order Id: 12345

Bank Ref.: 0123456

Date: 12/01/2022

Amount: 125

Buttons: Reset, Submit

Usage: Enter success details → Submit → success screen shown.

6. Display Cancel QR Code Screen

→ Enter all field then click submit button then cancel image are shown on display

6. Display fail QR Code Screen

→ Enter all field then click submit button then Fail image are shown on display

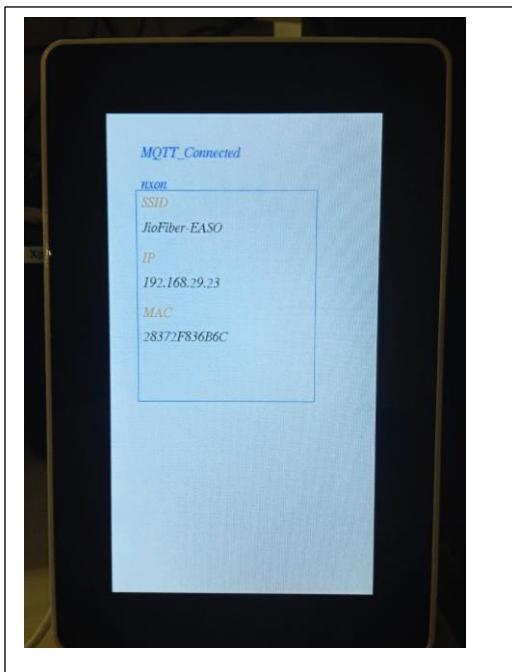
Step10 :Click to MQTT connection option :

1. MQTT

ON: OFF:

2. MQTT Credentials

Domain	nodered-mqtt.bonrix.in
Port	21883
User	nxon
Password	nxon1234
Topic	28372F836B6C



1. MQTT Toggle Section

ON and OFF buttons: Used to turn an MQTT-connected device on or off.

Submit button: Confirms and sends the selected command.

2. MQTT Credentials Section

Domain: nodered-mqtt.bonrix.in

Port: 21883

User: nxon

Password: nxon1234

Topic: 28372F836B6C (likely a unique device identifier in MQTT)

Reset button: Possibly to clear or reset credentials.

Submit button: Saves or updates the MQTT settings.

Step10 :Click Audio Settings option :

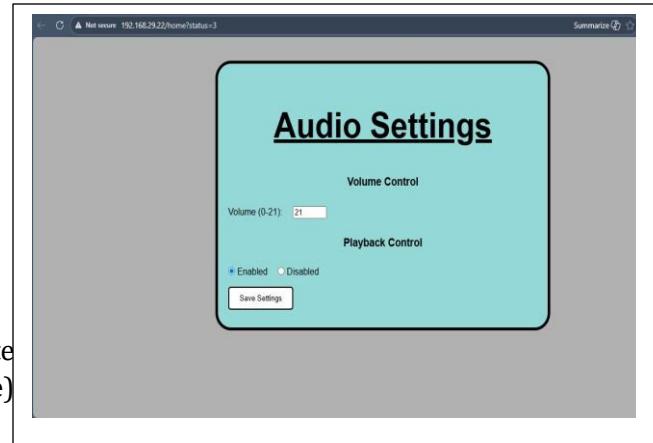
1. Volume Control

Parameter: Volume (0-21)

Current Value: 21 (maximum volume)

Description:

A numeric slider or input field to adjust the system volume. The range is from 0 (mute) to 21 (maximum volume).



2. Playback Control

This controls whether audio playback is enabled or disabled system wide.

Options:

Enabled → Audio will play for notifications, alerts, etc.

Disabled → All audio is muted, regardless of volume setting.

Current Selection:

It appears "Enabled" is selected in your screenshot.

3. Save Settings Button

Label: Save Settings

Action:

Clicking this button saves the current audio configuration (volume level and playback state) to the device's persistent storage.

The settings will be applied immediately.