

User Manual

For

Android Control board

with

wireless module

Product: Control Board

Model No.: XBP202

This user manual pertains to Android player Main board with Wireless module. The Main board can be assembled in the Android based Advertising Media Player, listed as below;

Model	Model Description
DI100ST2/DI100ST2-1/DP100ST2/DP100ST2-1	100" Monitor
DS851LR4-1/DS851LR3/DP851LT4-1/DP851LT3	85" Monitor
DI551ST2/DI551ST2-1/DP551ST2/DP551ST2-1	55" Monitor

● Specifications:

Item	Description
Storage	Internal: 8GB eMMC Flash, External: Support Micro SD , Up to 32GB
WiFi	IEEE 802.11 b/g/n
Ethernet	RJ45 10/100M Ethernet
Display Output	HDMI x 1
USB Input	Internal USB x1
Card Reader	SD Card Slot x 1
Power Input	Power Jack (5V/ 2A)
LED Indicator	White (Power on)
Button/Switch	Reset
Internet Browser	None
Video Format	MPEG-1, MPEG-2, MPEG-4, H.263, H.264 ,AVS , VC-1 , RV , VP6/VP8 , Sorenson Spark, MVC
Image Format	JPEG, BMP, PNG

- **PCBA dimension:** 11.5 cm x 9.5 cm
- **Assemble method:** the module will be screwed on the housing and used as a Main board for Android based Advertising Media Player .
- **Input port:**
 1pc Power jack - for +5V/2A power input.
 1pc USB-Internal USB x1
 1pc SD Card Slot - for Micro SD Card
- **Output port:**
 1pc jack for HDMI Cable.
 1 pc jack for Computer Cable
 1pc Antenna connector for 2.4G WiFi network

Hardware interface:



① SD Card

①

② USB

②

③ Reset

③

④ HDMI

④

⑤ Ethernet

⑤

⑥ DC IN

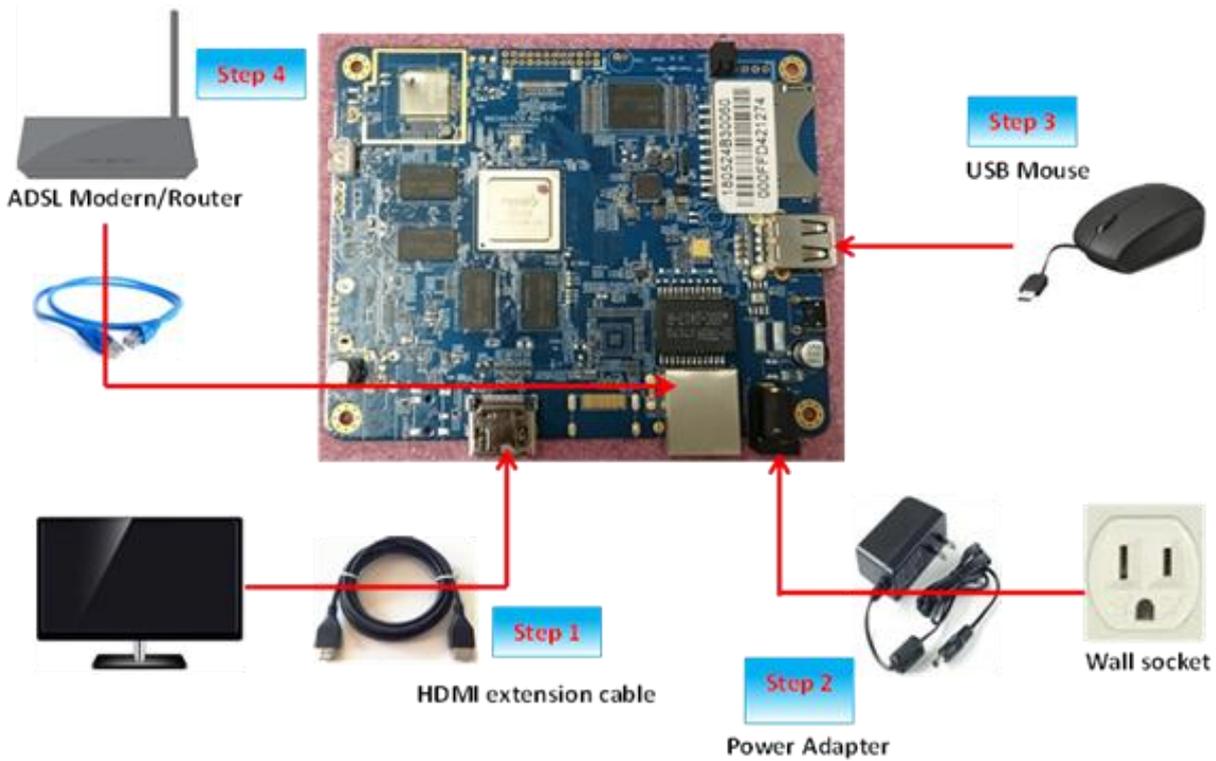
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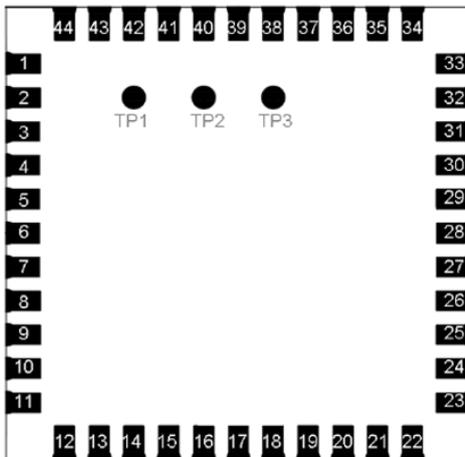
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7 WIFI



WIFI pin location and description :

< TOP VIEW >



NO	Name	Type	Description
1	GND	—	Ground connections
2	WL_BT_ANT	I/O	RF I/O port
3	GND	—	Ground connections
4	FM_RX	I	FM radio RF input antenna port
5	NC	—	Floating (Don't connected to ground)
6	BT_WAKE	I	HOST wake-up Bluetooth device
7	BT_HOST_WAKE	O	Bluetooth device to wake-up HOST
8	CLK_REQ	O	The CLK_REQ polarity is active-high. Add an external 100KR pull down resistor to ensure the signal is deasserted when the BCM43438 powers up or resets when VDDIO is present.
9	VBAT	P	Main power voltage source input
10	XTAL_IN	I	Crystal input
11	XTAL_OUT	O	Crystal output
12	WL_REG_ON	I	Internal regulators power enable/disable
13	WL_HOST_WAKE	O	WLAN to wake-up HOST
14	SDIO_DATA_2	I/O	SDIO data line 2
15	SDIO_DATA_3	I/O	SDIO data line 3
16	SDIO_DATA_CMD	I/O	SDIO command line
17	SDIO_DATA_CLK	I/O	SDIO clock line
18	SDIO_DATA_0	I/O	SDIO data line 0
19	SDIO_DATA_1	I/O	SDIO data line 1
20	GND	—	Ground connections
21	VIN_LDO_OUT	P	Internal Buck voltage generation pin
22	VDDIO	P	I/O Voltage supply input
23	VIN_LDO	P	Internal Buck voltage generation pin
24	LPO	I	External Low Power Clock input (32.768KHz)
25	PCM_OUT	O	PCM Data output
26	PCM_CLK	I/O	PCM clock
27	PCM_IN	I	PCM data input
28	PCM_SYNC	I/O	PCM sync signal
29	NC	—	Floating (Don't connected to ground)
30	NC	—	Floating (Don't connected to ground)
31	GND	—	Ground connections
32	NC	—	Floating (Don't connected to ground)
33	GND	—	Ground connections
34	BT_RST_N	I	Low asserting reset for Bluetooth core
35	NC	—	Floating (Don't connected to ground)
36	GND	—	Ground connections
37	NC	—	Floating (Don't connected to ground)
38	NC	—	Floating (Don't connected to ground)
39	GPIO2	I/O	WiFi Co-existence pin with LTE
40	GPIO1	I/O	WiFi Co-existence pin with LTE
41	UART_RTS_N	O	Bluetooth/FM UART interface
42	UART_TXD	O	Bluetooth/FM UART interface
43	UART_RXD	I	Bluetooth/FM UART interface
44	UART_CTS_N	I	Bluetooth/FM UART interface
45	TP1	O	FM Analog AUDIO left output
46	TP2	O	FM Analog AUDIO right output
47	TP3 (NC)	—	Floating (Don't connected to ground)

FCC Statement:

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

End Product Labeling :

This transmitter module is authorized only for use in device where the antenna may be installed such that 20cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: 2AKWYXBP202

Information for the OEMs and Integrators

The following statement must be included with all versions of this document supplied to an OEM or integrator, but should not be distributed to the end user.

- 1) This device is intended for OEM integrators only.
- 2) Please see the full Grant of Equipment document for other restrictions.