

V1.1

***FHD MEDIA PLAYER BOARD
SPECIFICATION***

MODEL: T10-BOX

Issue date: 2017.2.20

The information in the specification is subject to change without notice !

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REVISION HISTORY

VER.	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V1.1	2017.02.20	T10-BOX	ALL	First issue	Linda

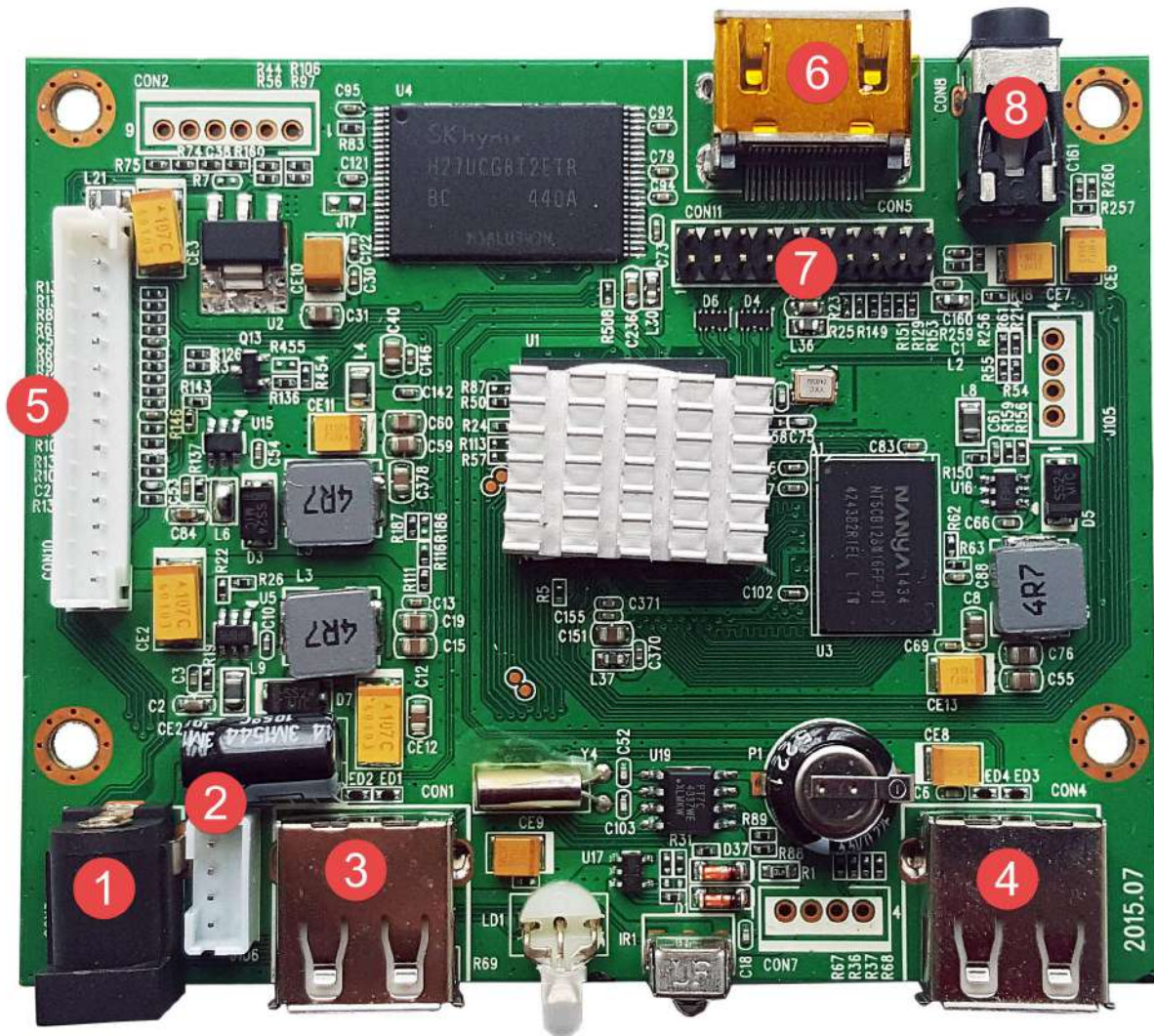
1. Product Overview

T10-BOX is a media decoding board which support two USB input and one HDMI +one Stereo Audio output. It use A9 CPU , 255MB DDR3 1600M RAM , 8GB build-in flash memory.

Main parameters:

Support Format	Video Format	MPEG2、AVI、MP4、DIV、TS、TP、TRP、MKV、MOV、DAT、ASF、WMV
	Picture Format	JPEG、PNG
	Music Format	MP3、MP2、WMA、WAV
Video Decode	Max Resolution	1920X1080
	Color Depth	24 bit
	Maximum Frame Rate	30 frm/s
	Max Data Rate	USB2.0 device :30Mb/s
Audio Decode	Sampling Rate	32kHz,44.1kHz,48kHz,96kHz
	Bit Rate	32kbps ~ 384kbps
Video Output		Standard HDMI+ EXT.HDMI (pin header)
Audio Output		Stereo (3.5mm Audio jack)
Power Supply		DC12V /300mA
Power Consumption		< 3W
USB Transmission Speed		USB2.0, Max 480Mbps
Dimension		88mm(L) x 72mm(W) x 15mm(H)

2. Product Interface



Figure(a)

Interface function description :

No	Description	No	Description
1	DC jack Power Input(+12V)	2	External Power supply input(+12V)
3	USB input 1	4	USB input 1
5	Keypad/IR/LED indicator Interface	6	HDMI Output
7	External HDMI Output	8	Audio Output

Main interface definition instructions , See figure (a)

No.1_CON3 (Φ 2.1 DC jack) DC Power input Interface : +12V

No.2_J106 (4PIN/2.0 mm Pitch) External DC Power input connector :

Pin NO.	Pin Symbol	Function Description
1	GND	Ground
2	GND	Ground
3	+12V	+12V power input
4	+12V	+12V power input

No.3_CON1&No. 4_CON4 : Standard USB 2.0 input Interface

No.5_CON10 (14PIN/2.0 mm Pitch) Keypad&LED Indicator&IR receiver connector :

Pin NO.	Pin Symbol	Function Description
1	NC	NC
2	LEFT	Left
3	RIGHT	Right
4	MENU	OSD MENU
5	SELECT	Selection/Enter
6	DOWN	Down
7	UP	Up
8	GND	Ground
9	LED-G	Green LED indicator control pin
10	LED-R	Red LED indicator control pin
11	Power	Power ON/OFF control
12	GND	Ground
13	IR	Remote signal input Pin
14	+5V	+5V power supply for IR receiver

Tips : The feature of each button can be customized according to customer's requirement .

No.6_CON5 : HDMI output Interface (Standard HDMI A type)

No.7_CON8 (10 PIN*2 /2.0 mm Pitch) External HDMI Output Pin Header :

Pin NO.	Pin Symbol	Function Description
1	RX2+	TMDS data 2+
2	GND	Ground
3	RX2-	TMDS data 2-
4	RX1+	TMDS data 1+
5	GND	Ground
6	RX1-	TMDS data 1-
7	RX0+	TMDS data 0-

8	GND	Ground
9	RX0-	TMDS data 0-
10	RXC+	TMDS clock +
11	GND	Ground
12	RXC-	TMDS clock -
13	CEC	CEC function
14	NC	No connection
15	SDA	DDC data signal
16	SCL	DDC clock signal
17	HDMI2/5V	+5V Power for HDMI signal
18	GND	Ground
19	NC	No connection
20	HPD2	Hot Plug Detect

3.Product Features Description

1. Use A9 CPU(Single-core ,1GHz) , 255MB DDR3 1600M RAM ,build-in 8GB Nand flash memory.
2. Support Two USB 2.0 as a media input interface , The Output signal is a standard HDMI 1.4 signal plus a two channel stereo audio signal .
3. Support seamless playing for video and picture .
4. Support rotate the OSD menu and Video in 0,90,180,270 degree .
5. Support auto copy from USB to build-in memory . Speed can up to 10MB/s , you can select addition or cover ;
6. Support auto play after power on , playing record when power off and resume continue play after power on again .
7. Chinese and English as default language , The other language supported customized .
8. Support select the memory priority : Build-in Memory or external USB memory .
9. Support multiple photo play mode/play scan mode/ repeat mode .
10. Support no file auto power off , Time volume , playing list , split display , rolling subtitles , Timer , select play content type

