



Digital Signage Player DJM-A640

Contents

1 Overview.....	2
2 Specification.....	3
3 Appearance and dimension.....	5
4 Interface.....	7
5 Usage contexts	13

1 Overview

DJM-A64 is base on A64/R18 chipset for digital signage that use 1G/2G DDR+8G/16G eMMC. Support both LVDS and HD output.

DJM-A64 uses 64-bit ARM Cortex-A53 architecture, quad-core. Basic Frequency is up to 1.5 GHz

The advantages:

DJM-A64 support H.265 decode technology which offer HD 4K resolution output. Operation system is using Android 6.0, kernel is Linux 3.1 version that is much stable and good for multi-application usage.

2 Specification

Hardware Configuration

CPU	Allwinner A64/R18 ARM Cortex-53 1.5GHz Quad Core
GPU	Mali400MP2
DRAM	DDR3 1G/2G Option (Default 1GB)
Flash memory	EMMC 8GB/16G/32G Option (Default 8GB)
Video Output	LVDS×1, LVDS 30 Pin 2.0mm, Double Row, direct for 50/60Hz LCD。 Support Max Resolution 1920×1080, Support 7"-100" screen
Backlight	Support 3.3V/5V/12V Select
Internet	10/100/1G RJ45 Ethernet。
	Support Bluetooth & wifi module , Support Wi-Fi 802.11b/g/n protocol
Rotation	Support 0 ,90, 180, 270 degree
RTC	Time synchronization over network and time saving when power failure
Interface	Support USB camera
	Support HD, Max output 4K (Single Output)
	6 x USB HOST、2x Rear USB、4x internal USB
	2x TTL Output, 1x RS232 , Support Extend serial module
	TF Card, Max 64GB

	Audio Output, 10W Amplifier
Audio input	Support MIC in
Touch screen	Support IR、Resistive Touch screen、Capacitive Touch screen
Power supply	DC in: DC12V & DC12V 5VSTB(on/off power)

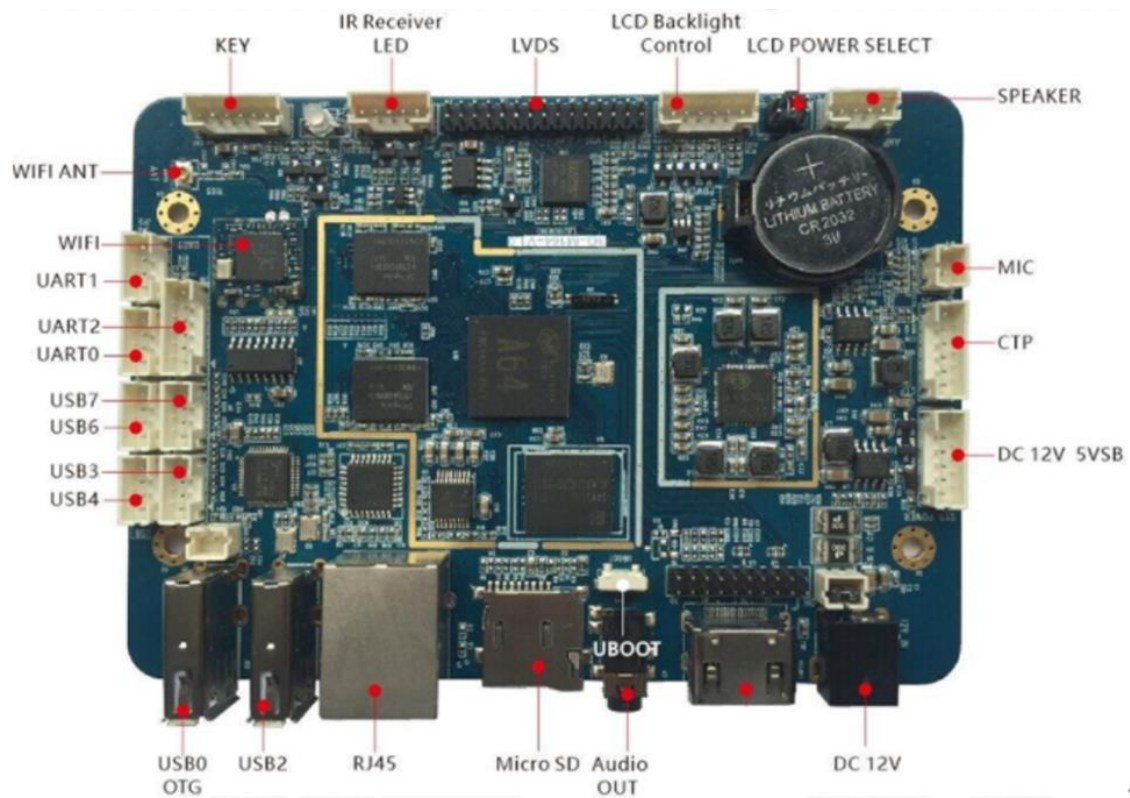
Software Configuration

Operation system	Google Android6.0
Language	Multi-Lingual
Media Formats	Support Video playback up to 1080P @60fps、4K@30fps Support Multi-Format video playback,including Mpeg1、Mpeg2、Mpeg4 SP/ASP GMC、H.263 including sorenson spark、H.264 BP/MP/HP、VP8、WMV9/VC1、JPEG/MJPEG、etc HEVC/H.265 4K @30fps
Audio Formats	Support 2,OGG,AAC,M4A,MA4,FLAC,APE,3GP,WAV
Image	Support BMP、PNG、GIF . Max 4096*4096 resolution
File	EPUB, WORD, EXCEL, POWERPOINT, PDF, TXT
System Management	Un-limits of Root authority. Help user to make their customized software.
	Auto power ON and OFF

3

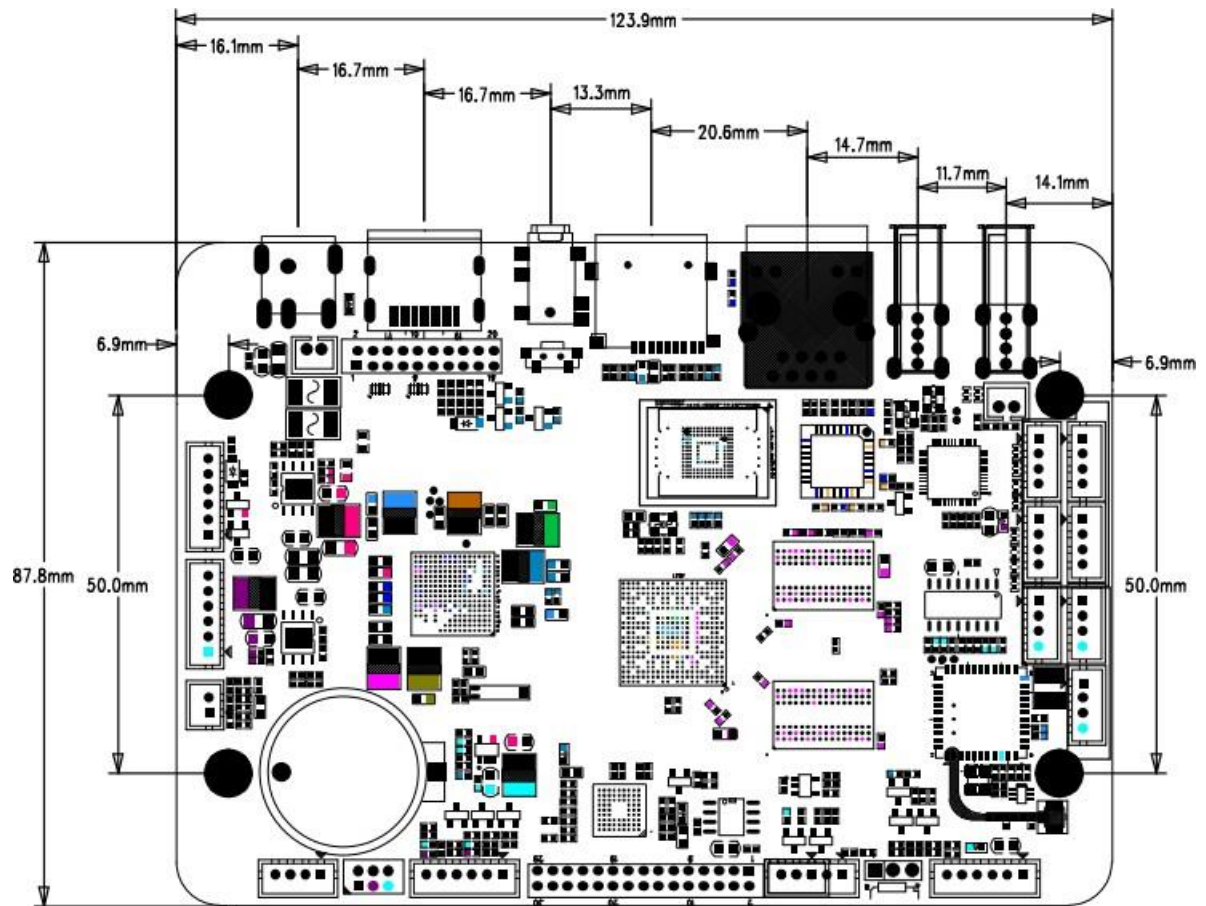
Appearance & Dimension

3.1 Front View



3.2 Dimension

Length: 124mm, Width: 88mm, Front Height: 15mm



4 Interfaces

4.1 Interface Layout

◆ JP2(6PIN/2.0) Extend Power Input

Pin No.	Pin Name	Type	Description
1	12V	Power Input	+12V Power Input
2	12V	Power Input	+12V Power Input
3	GND	Ground	Ground
4	GND	Ground	Ground
5	5VSB	Input	STB Power +5V
6	STB	Output	STB Power control

◆ JP4(6PIN/2.0) CTP interface

Pin Name	Type	Description
3.3V	Output	3.3V Output
SCK	Output	I2C Clock
SDA	Input /Output	I2C data
INT	Input	Interrupt
RST	Output	Reset
GND	Ground	Ground

◆ JP6(2PIN/2.0) MIC in

Pin No.	Pin Name	Type	Description
1	MIC1P	Input	Mic in +
2	MIC1N	Input	Mic in -

◆ JP7(4PIN/2.0) Audio Output

Pin No.	Pin Name	Type	Description
1	OUTP-R+	Output	+ Audio Signal of Right Speaker
2	OUTN-R-	Output	- Audio Signal of Right Speaker
1	OUTN-L-	Output	- Audio Signal of Left Speaker

2	OUTP-L+	Output	+ Audio Signal of Left Speaker
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◆ **JP13(2X3PIN/2.0) Backlight Power**

Pin No.	Pin Name	Type	Description
1	LCD12V	Output	Power Output, +12V
3	LCD5V	Output	Power Output, +5V
5	LCD3.3V	Output	Power Output, +3.3V
2	LCD-POWER	Input	According to 1, 3, 5, Select LVDS power
4			
6			

◆ **JP8(6PIN/2.0) Backlight control**

Pin No.	Pin Name	Type	Description
1	12V	Output	Backlight Power output, +12V
2			
3	BL_EN	Output	Backlight Enable
4	BL_ADJ	Output	Backlight control
5	GND	Ground	Ground
6			

◆ **JP9(2X15PIN/2.0) LVDS interface**

Pin No.	Pin Name	Type	Description
1	VCC_Panel	Output	Power Output, According to screen can select 3.3V/5V/12V (Use JP6 Jumper select)
2			
3			
4	GND	Ground	Ground
5			
6			
7	RX00-	Output	Pixel0 Negative Data (Odd)
8	RX00+	Output	Pixel0 Positive Data (Odd)
9	RX01-	Output	Pixel1 Negative Data (Odd)
10	RX01+	Output	Pixel1 Positive Data (Odd)
11	RX02-	Output	Pixel2 Negative Data (Odd)
12	RX02+	Output	Pixel2 Positive Data (Odd)
13	GND	Ground	Ground
14			

15	RXOC-	Output	Negative Sampling Clock (Odd)
16	RXOC+	Output	Positive Sampling Clock (Odd)
17	RXO3-	Output	Pixel3 Negative Data (Odd)
18	RXO3+	Output	Pixel3 Positive Data (Odd)
19	RXE0-	Output	Pixel0 Negative Data (Even)
20	RXE0+	Output	Pixel0 Positive Data (Even)
21	RXE1-	Output	Pixel1 Negative Data (Even)
21	RXE1+	Output	Pixel1 Positive Data (Even)
23	RXE2-	Output	Pixel2 Negative Data (Even)
24	RXE2+	Output	Pixel2 Positive Data(Even)
25	GND	Ground	Ground
26			
27	RXEC-	Output	Negative Sampling Clock (Even)
28	RXEC+	Output	Positive Sampling Clock (Even)
29	RXE3-	Output	Pixel3 Negative Data (Even)
30	RXE3+	Output	Pixel3 Positive Data (Even)

◆ JP11(5PIN/2.0) Remote、LED

Pin No.	Pin Name	Type	Description
1	LED_B	Blue LED	Work LED (LED_R Common Cathode)
2	LED_R	Red LED	STB LED
3	VCC_MCU	MCU PWR	3.3V Output
4	GND	Ground	Ground
5	IR	Input	Remote receive

◆ LED1(3PIN) LED

Pin No.	Pin Name	Type	Description
1	LED_B	Blue LED	Work LED (LED_R Common Cathode)
2	GND	Ground	Ground
3	LED_R	Red LED	STB LED

◆ JP12(6PIN/2.0) Button interface

Pin No.	Pin Name	Type	Description
1	3.3V	Output	3.3V Output
2	PWR-ON	Output	Power Button

3	RESET	Output	Reset
4	BOOT	Input	Update
5	KEY	Output	Buttom
6	GND	Ground	Ground

◆ **JP5 (4PIN/2.0) UART1**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	RX1	Input	UART Data receive
3	TX1	Output	UART Data transmit
4	3.3V	3.3V Output	3.3V Output

◆ **JP3 (4PIN/2.0) UART0**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	RX1	Input	UART Data receive
3	TX1	Output	UART Data transmit
4	3.3V	3.3V Output	3.3V Output

◆ **J10(6PIN/2.0) UART2 (RS232)**

Pin No.	Pin Name	Type	Description
1	UART2_RTS	Output	UART RTS
2	UART2_CTS	Output	UART CTS
3	GND	Ground	Ground
4	RX2	Input	UART Data receive
5	TX2	Output	UART Data transmit
6	3.3V	3.3V Output	3.3V Output

◆ **J6 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **J7 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **J9 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **J8 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **JP1 (2X10PIN/2.0) HD Interface**

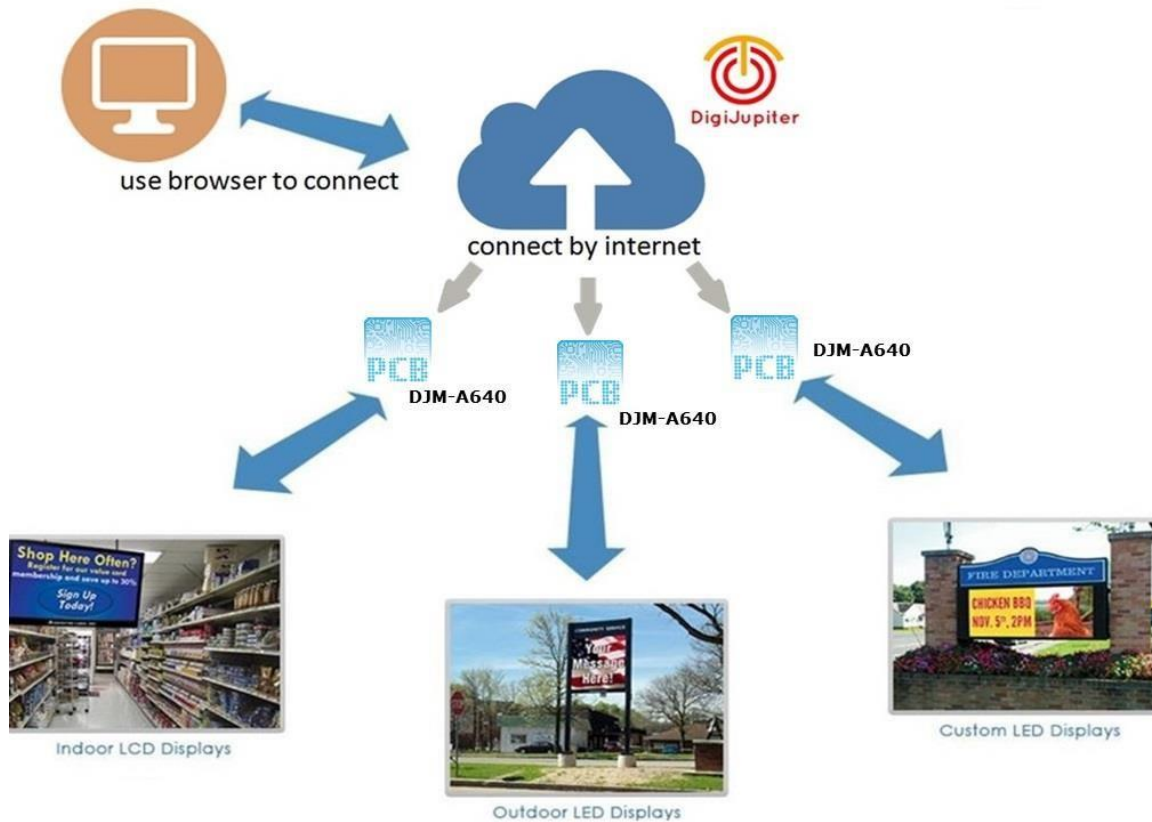
Pin No.	Pin Name	Type	Description
1	HTX2P-S	Signal	HD Signal
2	GND	Ground	HD Ground
3	HTX2N-S	Signal	HD Signal
4	HTX1P-S	Signal	HD Signal
5	GND	Ground	HD Ground
6	HTX1N-S	Signal	HD Signal
7	HTX0P-S	Signal	HD Signal
8	GND	Ground	HD Ground
9	HTX0N-S	Signal	HD Signal
10	HTXCP-S	Signal	HD Signal
11	GND	Ground	HD Ground
12	HTXCP-S	Signal	HD Signal

13	CEC	Signal	CEC
14	NC		NO Connect
◆ 15	HSCL	Signal	HD I2C Clock
◆ 16	HSDA	Signal	HD I2C data
◆ 17	GND	Ground	HD Ground
◆ 18	HD-5V	Power	HD Power5V
◆ 19	HD-HPD	Signal	HD hot plug
◆ 20	GND	Ground	HD Ground
◆			

- ◆ JD2 USB_OTG
- ◆ JD1 USB-HOST
- ◆ U1 Ethernet Connector
- ◆ J1 TF Card
- ◆ J3 Audio Jack
- ◆ HCON1 HD TYPE-A
- ◆ J2 12V DC Jack

5

Usage Contexts (Use Digi-Jupiter cloud solution to update terminla players)



DigiJupiter Interactive Touch Software

