![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

UBC-DS31

Freescale ARM Cortex-A9 i.MX6 Full HD RISC Signage Box

NEW

TAIWAN EXCELLENCE 2013

Features

- Freescale i.MX6 Cortex-A9 Dual 1 GHz
- On-board DDR3 1 GB & 4 GB Flash
- Supports Full HD 1080P H/W video codec engine
- Giga LAN networking capability
- Low power, fanless design
- Supports wall mount, VESA mount and a flexible mount with 2 screws
- Removable cover for SD card
- Support SUSIAccess for Sigange and U-Poster signage software

freescale semiconductor · SUSIAccess · C E FCC · RoHS COMPLIANT 2002/95/EC

Introduction

UBC-DS31 provides enough power for Full HD video, and is powered by a Freescale ARM Cortex-A9 i.MX6 dual-core high performance processor with built-in Gigabit Ethernet for networking. It is easy to set up with its compact size and flexible mounting design, including wall mount, and VESA 75/100 mount. UBC-DS31 is easy to assemble in any application environment and comes preloaded with SUSIAccess software for remote management and Signage Player control.

SUSIAccess for signage is based on the Linux QT framework, and integrates multiple functions including content production and device management. "Content Producer" includes a content editor, layout editor and content description; "Device Conductor" supports status monitoring, content dispatch and firmware updates. Users can manage and control the content of all devices through Ethernet from servers and management centers

U-Poster is Android based Sigange software. Users can easily edit the configurations like:Layout, Playlist,marquee and scheduling through a smart Wizard. U-poster is designed for users who have no FTP server. It built-in ftp server for local content server. Moreover, it also supports Dropbox cloud service that will be more useful for SMBs.

Specifications

Processor System	CPU	Freescale ARM Cortex-A9 i.MX6 Dual 1 GHz
Memory	Technology	DDR3 1066 MHz
	Capacity	On-board DDR3 1 GB
	Flash	4 GB eMMC NAND Flash for O.S. and 4 MB SPI NOR Flash for Advantech boot loader
Graphics	HDMI	1 (Resolution: 1920 x 1080)
	VGA	1 (Resolution: 1920 x 1080)
	Graphics Engine	2 IPUs. OpenGL ES 2.0 for 3D, BitBlt for 2D and OpenVG 1.1
	H/W Video Codec	Decoder: MPEG-4 ASP, H.264 HP, H.263, MPEG-2 MP Encoder: MPEG-4 SP, H.264 BP, H.263
Ethernet	Chipset	Freescale i.MX6 integrated RGMII
	Speed	1 10/100/1000 Mbps
RTC	RTC	Yes
WatchDog Timer	WatchDog Timer	Yes
I/O	USB	1
	Audio	1 Line-out
	SPDIF	-
	SDIO	1 x SD slot
	Serial Port	1 x RS-232 (CTS,RTS,Tx, Rx)
	Button	1 Reset button
Indicator	LED	2 Green LED for the system power and RF status
Expansion	MiniPCIe	1 miniPCIe socket
	SIM	1 SIM socket
Power	Power Supply Voltage	12 V_{DC}
	Power Type	DC-in
	Power Consumption	2.3 Watts
Environment	Operational Temperature	0 ~ 40° C
	Operating Humidity	5%~95% Relative Humidity, non-condensing
Mechanical	Dimensions (W x D)	191 x 129 x 30 mm with metal plate 166 x 117 x 30 mm without metal plate
	Mounting	Wall mount, VESA 75/100, Flexible mount with two screw holes on the metal plate
	Weight	265g
Operating System	Linux based	SUSIAccess for Signage
	Android based	U-Poster 1.0
Certifications		CE/FCC Class B

Software Key Features

	SUSIAccess for Signage	U-Poster
Content edit	✓	✓
Layout edit	✓	✓
Video Playback	✓ (Max 1)	✓ (Max 2)
Photo slide show	✓	✓
Marquee	✓ (Max 1)	✓ (Max 2)
RSS info board	-	✓
Realtime clock / Weather	-	✓
Content update	via USB/SD Card	via USB/SD Card
Firmware update	Remote access	via SD Card
Web/ HTML5 support	-	✓
Hardware monitoring	✓	-
Preview	✓	-
Landscape & Portrait	Landscape	Landscape & Portrait

Ordering Information

Part No.	CPU	Memory	Flash Memory	UART	LAN	USB Host	HDMI	MiniPCIe & SIM slot	Software	Operating Temperature
UBC-DS31CD-MDA1E	Freescale i.MX6 Dual 1 GHz	1 GB	4 GB	1	1	1	1	1	SUSIAccess for Signage	0 ~ 40° C
UBC-DS31CD-PAA1E	Freescale i.MX6 Dual 1 GHz	1 GB	4 GB	1	1	1	1	1	U-Poster	0 ~ 40° C

Packing List

Part No.	Description	Quantity
1990022408T000	UBC-D31-SD COVER	1
1931041020	Screws for VESA mount	4
1930003218	Screws for system &VESA mount	2
2022DS3100	UBC-DS31 China RoHS	1
2002DS3110	Quick start Guide	1

Optional Accessories

Part Number	Description
96PSA-A36W12R1	Adapter 100-240 36W 12V 3A 9NA0362308
170203183C	Power Code 3P Europe (WS-010+WS-083)183cm
170203180A	Power Cord 3P UK 2.5A/3A 250V 1.83M
1700001524	Power Cord 3P UL 10A 125V 180cm
1990022422S000	Fixed rail 71.3Lx6.2W mm YJC-64C for UBC-DS31
1990022423S000	Fixed ring DIA:7.5-8.5 FWM-8K for UBC-DS31
1700021565-01	Debug cable

External I/O