

# Одноплатные компьютеры с архитектурой RISC серии UBC

## ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

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# UBC-200

## Freescal e ARM Cortex-A9 i.MX6 RISC Compact Box Computer



### Features

- Freescale ARM Cortex-A9 i.MX6 Dual/Quad 1 GHz high performance processor
- Onboard DDR3 1 GB, up to 2 GB
- On board 4 GB eMMC Flash
- Supports OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators, full HD 1080p video codec
- HDMI 1920x1080
- 1 USB 2.0, 1 10/100/1000 Mbps Ethernet; 1 SD Slot
- On board mini-PCIe connector for WIFI/3G module support
- Low power, fanless design
- Supports wall mount and Din-rail



### Introduction

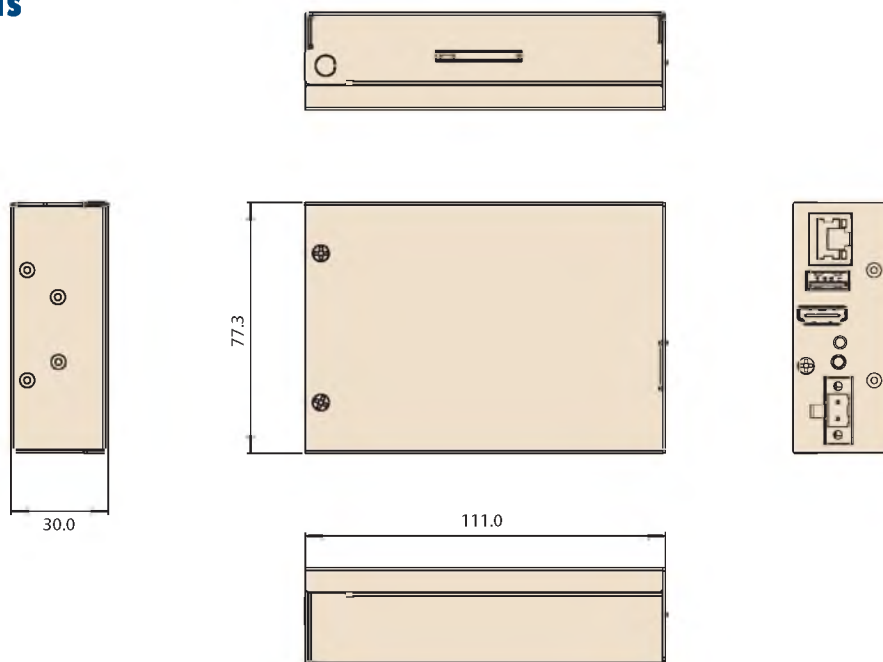
UBC-200 is an IP-based RISC compact box for industrial applications and the IoT market. With a powerful ARM Freescale i.MX6 Cortex-A9 Dual/Quad core processor inside, UBC-200 is the best choice to fulfill the requirements of CPU performance and power consumption. It supports USB 2.0, HDMI up to 1080p and Gigabit Ethernet. As well as one mini PCIe slot for WIFI/3G module support and a built-in SD card socket for storage expansion. With the wall mount brackets enclosed in UBC-200 package, you can easily install it on a solid wall or any material surfaces

### Specifications

Processor System	CPU	Freescal e i.MX6 Cortex-A9 Dual/Quad 1GHz
Memory	Technology	DDR3 1066 MHz
	Capacity	On-board DDR3 1 GB, up to 2 GB
	Flash	4 GB eMMC Flash for O.S. and 4 MB NOR Flash for Advantech boot loader
Graphics	HDMI	1
	Graphics Engine	2 IPUs. OpenGL ES 2.0 for 3D, BitBlit for 2D and OpenVG 1.1
	H/W Video Codec	Decoder: MPEG-4 ASP, H.264 HP, H.263, MPEG-2 MP, MJPEG BP Encoder: MPEG-4 SP, H.264 BP, H.263, MJPEG BP
Ethernet	Chipset	Freescal e i.MX6 integrated RGMII
	Speed	1 10/100/1000 Mbps
RTC	RTC	Yes
WatchDog Timer	WatchDog Timer	Yes
I/O	USB	1 USB 2.0
	SDIO	1 SD slot
	Button	1 Reset button
Indicator	LED	1 Green LED for the system power
Expansion	Mini PCIe	1
	SD Socket	1
	SIM	1
Power	Power Supply Voltage	9 – 24 V <sub>DC</sub>
	Power Type	Two poles lockable DC-in
	Power Consumption	3.16W (Max. load)
Environment	Operating Temperature	0 – 60° C
	Operating Humidity	5%–95% Relative Humidity, non-condensing
Mechanical	Dimensions (W x D)	111 x 77 x 30 mm
	Mounting	Wall mount, DIN-Rail
	Weight	312G
Operating System	Linux	V3.0.35
Certifications		CE/FCC Class B

## Dimensions

Unit: mm



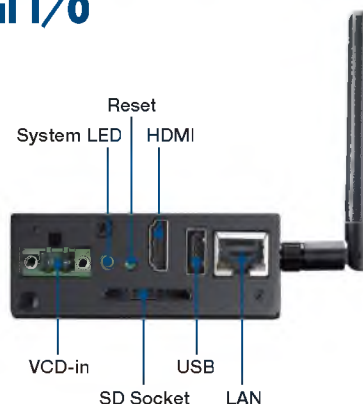
## Ordering Information

Part No.	CPU	Memory	Flash Memory	UART	LAN	USB Host	HDMI	Size	Operating Temperature
UBC-200CD-MDA1E	Freescale i.MX6 Dual 1 GHz	1 GB	4 GB	-	1	1	1	111 x 77 x 30mm	0 ~ 60° C
UBC-200CQ-MEA1E	Freescale i.MX6 Quad 1 GHz	2 GB	4 GB	-	1	1	1	111 x 77 x 30mm	0 ~ 60° C

## Optional Accessories

Part Number	Description
1757003553	ADAPTER 100-240V 36W 12V 3A
1700017968	DC-Jack/Plug-in cable
1960015198T011	DIN-rail for UBC-200
SQF-ISDS1-2G-86E	SQFlash SD card SLC 2G, 1CH (-40 ~ 85° C)
EWM-W142F01E	802.11 b/g/n,AR9287,2T2R,Full size Mini PCIe
1750007050-01	WiFi RP-SMA short SMA Jack(9.5mm) to U.FL_100mm (WiFi Cable)
1750000318	EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384 (WiFi Antenna)
EWM-C106FT01E	Cellular, HSUPA/WCDMA/GPRS Full Mini PCIe
1750007156-01	Cellular/GPS SMA Short JACK(9.5MM) L=100mm (3G Cable)
1750005865	Antenna L=10.9cm 500hm AN8921F-5701SM (3G Antenna)
1700001524	Power Cord 3P UL 10A 125V 180cm
170203183C	Power Code 3P Europe (WS-010+WS-083)183cm
170203180A	Power Cord 3P UK 2.5A/3A 250V 1.83M

## External I/O



# UBC-DS31

## Freescal e ARM Cortex-A9 i.MX6 Full HD RISC Signage Box



### Features

- Freescal e 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 Signage and U-Poster signage software



### Introduction

UBC-DS31 provides enough power for Full HD video, and is powered by a Freescal e 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 Signage 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	Freescal e 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, BitBlit 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	Freescal e 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)
Indicator	Button	1 Reset button
	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 <sub>oc</sub>
	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
Mechanical	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

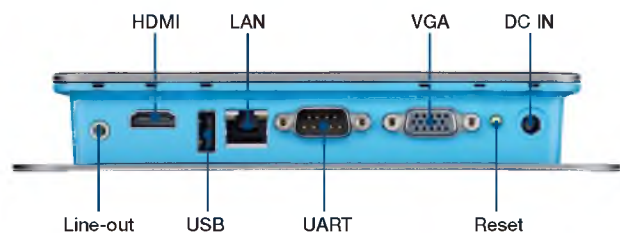
## Packing List

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
1757003553	Adapter 100-240V 36W 12V 3A W/O PFC 9NA0361603
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

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