# UBC-DS31

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

**NEW**

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## 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€ · 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<br>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<br>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

HDMI   LAN   VGA   DC IN

Line-out   USB   UART   Reset
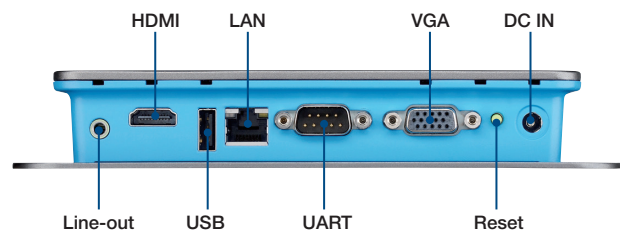
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