

UBC-200

NXP ARM® Cortex®-A9 i.MX6 RISC Compact Box Computer



Features

- NXP ARM® Cortex®-A9 i.MX6 dual/quad-core 1 GHz processor
- Onboard DDR3 1GB/2GB, 1066MHz
- 4 GB of eMMC Flash onboard
- HDMI with 1920 x 1080 resolution
- 1 USB 2.0 slot, 1 10/100/1000 Mbps Ethernet slot, and 1 SD slot
- Metal chassis for rugged application
- Low power consumption, fanless design
- Supports wall mounting and DIN rails



Introduction

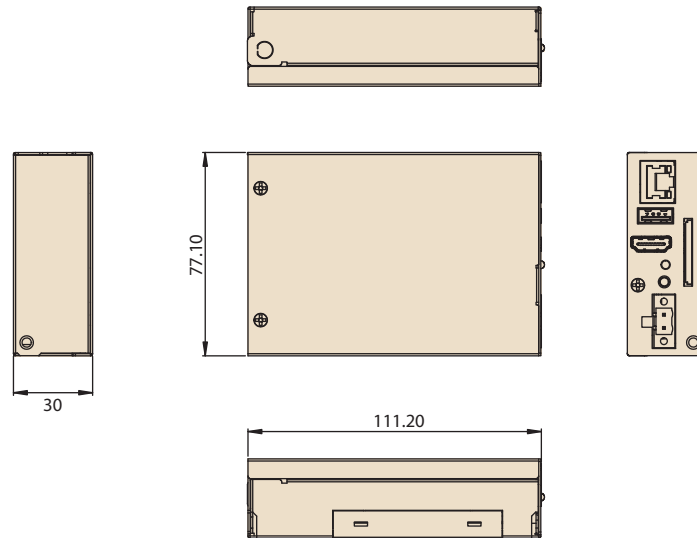
UBC-200 is an IP-based RISC compact box developed for industrial and IoT applications. Equipped with a powerful NXP ARM® Cortex®-A9 i.MX6 dual/quad-core processor, UBC-200 delivers excellent CPU performance and reduced power consumption. In addition to supporting USB 2.0, HDMI (up to 1080p resolution), and Gigabit Ethernet, the system features 1 x mini PCIe slot for integrating Wi-Fi/3G modules and 1 x built-in SD card slot for storage expansion. The wall mount brackets included with the UBC-200 system enable flexible installation.

Specifications

Form Factor		2.5" Box computer
Processor System	CPU	NXP ARM® Cortex®-A9 i.MX6 dual/quad-core 1.0 GHz processor
Memory	Technology	DDR3 1066 MHz
	Capacity	1 GB of onboard DDR3, supports up to 2 GB
	Flash	4 GB of eMMC Flash for OS and 4 MB of NOR Flash for Advantech's boot loader
Graphics	HDMI	1
	Graphics Engine	2 x 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	NXP i.MX6 integrated RGMII
	Speed	1 10/100/1000 Mbps
RTC	RTC	Yes
Watchdog Timer	Watchdog Timer	Yes
I/O	USB	1 x USB 2.0
	SDIO	1 x SD slot
	Button	1 x Reset button
Indicator	LED	1 x Green LED for system power
Expansion	Mini PCIe	1
	SD Socket	1
	SIM	1
Power	Power Supply Voltage	9 – 24 V _{DC}
	Power Type	2-pole lockable DC-in
	Power Consumption	3.16 Watts (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	312 g
Operating System	Linux	V3.0.35
	Android	V4.3
Certifications		CE/FCC Class B

Dimensions

Unit: mm



Ordering Information

Part Number	CPU	Memory	Flash Memory	UART	LAN	USB Host	HDMI	Size	Operating Temperature
UBC-200CD-MDA1E	NXP i.MX6 dual-core, 1 GHz	1 GB	4 GB	-	1	1	1	111 x 77 x 30 mm	0 ~ 60 °C
UBC-200CQ-MEA1E	NXP i.MX6 quad-core, 1 GHz	2 GB	4 GB	-	1	1	1	111 x 77 x 30 mm	0 ~ 60 °C

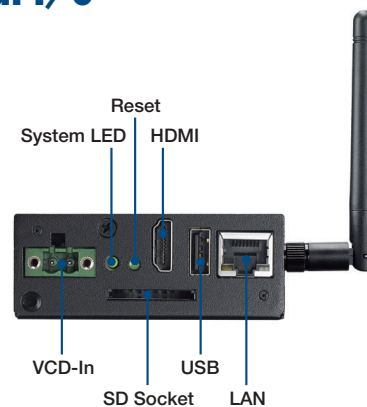
Packing List

Part Number	Description
1960062939N001	Wall-mount bracket

Optional Accessories

Part Number	Description
96PSA-A36W12R1	Adapter 100-240 V 36 W 12 V 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	Wi-Fi RP-SMA short SMA jack (9.5 mm) to U.FL, 100 mm (Wi-Fi cable)
1750000318	EMI antenna 2DBI 2.4 GHz SMA CONN for ARK-3384 (Wi-Fi antenna)
EWM-C106FT01E	Cellular, HSUPA/WCDMA/GPRS, full-size mini PCIe
1750007156-01	Cellular/GPS SMA short jack (9.5 mm) 100 mm (3G cable)
1750005865	Antenna, 10.9 cm, 50 ohm, AN8921F-5701SM (3G antenna)
1700001524	Power cord 3P UL 10A 125 V 180 cm
170203183C	Power cord 3P Europe (WS-010+WS-083) 183 cm
170203180A	Power cord 3P UK 2.5A/3A 250 V 1.83 M
1700008921	Power Cord 3P PSE 183cm

External I/O



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