UBC-330

TI Sitara™ AM3352 Cortex®-A8 RISC **Computing Box**



Features

- TI Sitara[™] AM3352 Cortex®-A8 1.0 GHz processor
- 512 MB of DDR3-800 and 4 GB of eMMC NAND Flash onboard
- 4 GPI and 4 GPO ports (with ESD and isolation protection)
- 5x serial port w/ESD protection (Contact 4KV / Air 8KV)
- 2 Gigabit Ethernet ports
- Supports Linux BSP
- 0 ~ 55 °C operating temperature
- Equipped with hardware watchdog time for system protection





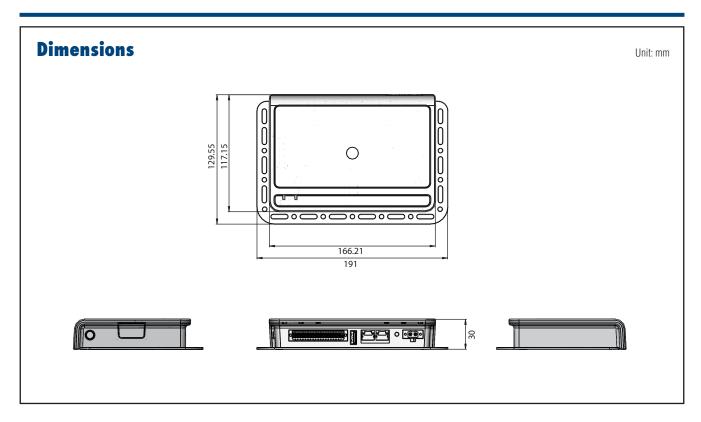




UBC-330 is a RISC computing box powered by a TI Sitara™ AM3352 Cortex®-A8 processor and equipped with 2 Gigabit Ethernet, 5 serial, 4 GPI, and 4 GPO ports. For industrial applications, the serial and GPIO ports feature rugged ESD and isolation protection to prevent system damage from power fluctuations. UBC-330 also supports multiple power input voltages and a wide operating temperature, making it the ideal solution for automation control in smart grid, industrial, and machinery automation applications.

Specifications

Form Footor		Day computer					
Form Factor	ODU	Box computer					
	CPU	TI Sitara™ AM3352 Cortex®-A8 1.0 GHz processor					
Processor System	Capacity	512 MB of onboard DDR3 at 800 MHz					
	Flash	4 GB of eMMC NAND Flash for OS and 4 MB of SPI NOR Flash for ADV loader					
Ethernet	Transceiver	RTL 8211					
	Speed	2 x 10/100/1000 Mbps					
WatchDog Timer		MSP430G2202 (timeout: 1 ~ 6553s, default 60s/power on/off 1s)					
1/0	USB	1 x USB2.0 host					
	Serial Port	5 (1x 4 wires RS-232/422/485, 4x 2 wires RS-232)					
	Seliai Full	The 5 serial port w/ ESD protection (Contact 4KV/ Air 8KV)					
	CAN	CAN bus version 2.0 A and B					
		4 GPI and 4 GPO ports (with optional ESD and isolation protection)					
		GPI:	GPO:				
	GPI0	ESD protection: Contact 4KV/ Air 8KV	ESD protection: Contact 4KV/ Air 8KV				
		Isolation: 0 ~ 50V _{DC} input and 10KHz speed	Isolation: 5 ~ 40V _{DC} output and 10KHz speed				
			(200mA max/channel sink current)				
	I ² C	1					
	Button	1 x Reset button					
Expansion	SD Socket	1 x SD slot					
	Power Supply Voltage	+12/19/24 V DC-in					
Power	Power Type	2-pole lockable DC-in					
	Power Consumption	3.3 Watts (maximum)					
Environment	Operational Temperature	0 ~ 55 °C					
	Operating Humidity	5 ~ 95% relative humidity, non-condensing					
Mechanical	Dimensions (W x D x H)	117 x 166 x 30 mm					
Operating System		Linux					
Certifications		CE FCC/CCC Class B					

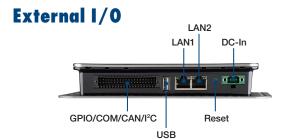


Ordering Information

Part Number	CPU	Memory	eMMC	SD	CAN	UART	GPI0	Isolation	ESD	USB Host	LAN	Operating Temperature
UBC-330NS-JLA1E	TI AM3352 1.0 GHz	512 MB	4 GB	1	1	5	8	Serial: No GPIO: Yes	Serial: Yes GPIO: Yes	1	2	0 ~ 55 °C

Packing List

Part Number	Description
UBC-330NS-JLA1E	UBC-330 AM3352 1 GHz 512 MB computing box
1652006830-01	20x2P 2 54mm 180D 0156-1A40



Optional Accessories

Part Number	Description
96PSA-A36W12R1-3	ADP A/D 100-240V 36W 12V C6 DC PLUG 90°
1700023307-01	DC jack/plug-in cable 1*2P-5.0 10 cm RSB-4220
170203183C	Power cord 3P Europe (WS-010+WS-083) 183 cm
SQF-MSDM1-8G-21C	SQF MICRO SD C10 MLC 8G (-25 ~ 85 °C)
1700008921	Power Cord 3P PSE 183cm
1700019146	Power Cord CCC 3P 10A 250V 183cm
170203180A	Power cord 3P UK 2.5A/3A 250 V 1.83 M
1700001524	Power cord 3P UL 10A 125 V 180 cm

Embedded Linux Support and Design-in Services

Hardware Certified Ubuntu and Yocto with Eco Partner Services

Linux is the most popular embedded OS for transportation, outdoor services, factory automation, and mission critical applications. Its open source and kernel reliability features ease security updates, and make it particularly adaptable to new AI and Edge computing technology. Advantech has cooperated with Canonical and other software partners to provide hardware certified Ubuntu image and Yocto BSP as Linux offerings. The Advantech, Embedded Linux, and Android Alliance (ELAA) delivers local software services and consultation.



Features

Certified OS and BSP

- Platform compatibility tests
- Preloaded functional driver and software stacks

Licensed Services

- License authorized
 Canonical delivers
 10-years of bug fixes and security updates
- · In-house bundled service

Numerous Al and Edge Resources

- Containerized technology for service provision and deployment
- Al resources from Caffe, TensorFlow, and mxnet

Local Partner Alliance

 Embedded Linux and Android Alliance (ELAA)

WISE-DeviceOn

Massive IoT Device Management Utility

IoT deployment and management typically involves numerous disparate devices installed on multiple sites. These devices require effective monitoring, managing, and tracking. Advantech's easy-to-use WISE-DeviceOn interface enables users to remotely monitor device health, troubleshoot problems, and send software/firmware updates over-the-air (OTA). In sum, DeviceOn empowers quick real-time responsiveness to emerging problems.



Features

Comprehensive Management

- · Devices status
- · Peripherals/firmware
- · Open for extension

Remote Access

- · Real-time monitoring
- · Remote controls
- · Troubleshooting

Efficient Operations

- · Zero-touch on-boarding
- OTA updates
- · Batch control

Product Highlights



SOM-6883

High-performance 11th Gen Intel® COMe Type 6 Module



MIO-5375

Compact 11th Gen Intel® Outdoor Focused 3.5" SBC



EPC-B5587

10th Gen Intel® Xeon® based Edge server



Arm based IoT Edge Gateway