

USM-150

RISC-Based 4K Edge Computer



Features

- Built-in RK3399, Arm Cortex-A72 dual-core and Cortex-A53 quad-core processor
- 2GB onboard memory (4GB optional)
- 16GB eMMC onboard (32GB/64GB optional); expandable micro SD (TF) storage
- Superior 4K ultra HD video resolution
- Fanless design with low power consumption
- Supports Android 8.1/10, Ubuntu 18.04 OS
- Supports Advantech Android-DM remote management software

Introduction

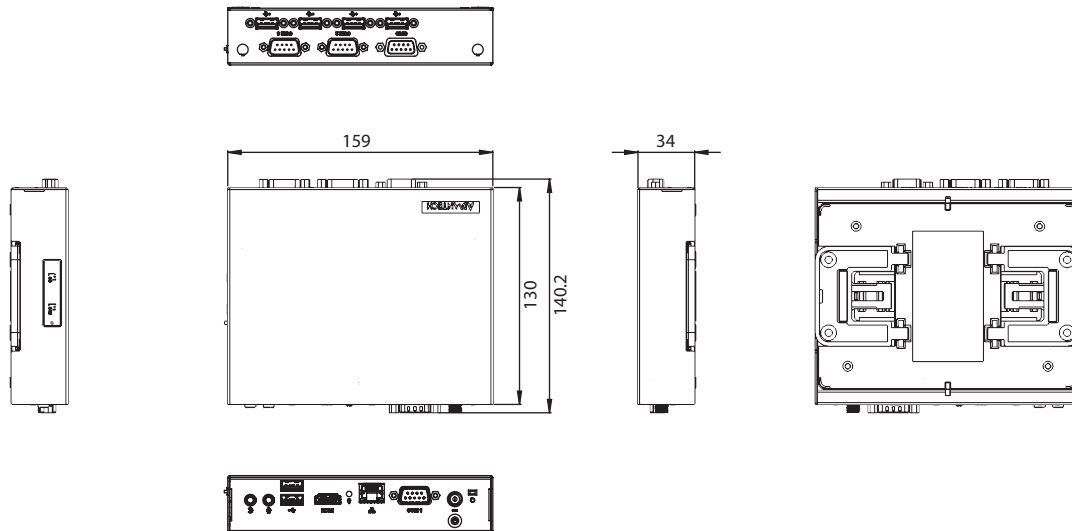
USM-150 is an edge computer that supports 4K Ultra HD video. The compact design features multiple I/O to support versatile operations for dynamic, hyper-intelligent IoT deployments. USM-150 offers maximum system performance, optimizes edge computing, supports data analysis for AI applications, and provides a cost-efficient solution ideal for the retail and transportation industries.

Specifications

	USM-150	USM-150 Lite	
System	CPU	Rockchip RK3399 dual-core Cortex™-A72 (up to 1.8 GHz)/quad-core Cortex™-A53 (up to 1.4 GHz)	
Graphic	GPU	Arm® Mali-T860 MP4 GPU	
	Resolution	4K UHD (3840 x 2160 @ 60Hz)	
Memory	Capacity	2GB LPDDR3 (4GB optional)	
Storage	Flash	16GB onboard eMMC (32GB/64GB optional); 1 x TF card slot	
Wireless Network	WiFi	IEEE 802.11 a/b/g/n/ac	
	Bluetooth	BT 5.0	
I/O	HDMI	1 x HDMI	1 x HDMI
	LAN	1 x 10/100/1000 Mbps; PoE: 802.3af/at	1 x 10/100/1000 Mbps; PoE: 802.3af/at
	Serial Port	1 x RS-232/485/422 via jumper 2 x RS-232 only	1 x RS-232/485/422 via jumper
	GPIO	1 x GPIO DB-9 (female)	N/A
	USB 2.0	4 x USB 2.0	N/A
	USB 3.0	2 x USB 3.0 (1 x OTG USB)	2 x USB 3.0 (1 x OTG USB)
	Audio	2 x 3.5 mm audio jack (1 x mic-in, 1 x speaker)	2 x 3.5 mm audio jack (1 x mic-in, 1 x speaker)
	DC In	1 x DC jack	1 x DC jack
	Reset	1 x Reset button	1 x Reset button
Expansion	1 x Micro SD 1 x Mini PCIe (for optional 3G/4G module)	1 x Micro SD 1 x Mini PCIe (for optional 3G/4G module)	
Supported Media Formats	Video: AVI, FLV, WMV, RM, RMVB, MPEG, TS, MP4 Image: JPEG, PNG, GIF, BMP		
Mechanical	Color	Black	
	Dimensions (L x W x H)	159 x 130 x 34 mm	
	Weight	0.5 kg (1.1 lb)	
	Power Consumption	12 ~ 36V _{DC} ; 12V _{DC} , 3A (typical)	
Installation	Mount Options	VESA (75 x 75 mm), wall, desktop, pole, magnet, DIN rail	
Software	Operating System	Android 8.1/10, Ubuntu 18.04	
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)	
	Relative Humidity	90% @ 40 °C (non-condensing)	
Certification	CCC, CE		

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
USM-150A-BR210	Cortex A72+A53, 6 core, 2GB/16GB, 1 HDMI, PoE, Lite
USM-150A-BR211	Cortex A72+A53, 6 core, 2GB/16GB, 1 HDMI, PoE

Optional Accessories

Product	Part Number	Description
Power Cable	96CB-POWER-B-1.8MB	Power cable, CCC, 3P, 180 cm (China)
	1700001524	Power cable, UL, 3P, 10A, 125V, 180 cm (US)
	170203183C	Power cable, CE, 3P, 10A, 250V, 183 cm (EU)
	1700018553	Power cable, SAA, 3P, 2.5A, 250V, 183 cm (Australia)
	1700025113-11	Power cable, ISI, 3P, 2.5A, 250V, 180 cm (India)
	1700018409	Power cable, KCC, 2P, 2.5A, 250V, 183 cm (Korea, Russia)
	1700024849-01	Power cable, BSMI, 3P, 2.5A, 125V, 180 cm (Taiwan)
	170203180A	Power cable, BSI, 3P, 2.5A, 250V, 183 cm (UK)
1700008921	Power cable, PSE, 3P, 7A, 125V, 180 cm (Japan)	

I/O View

