

UBX-010RC

ARM-Based Edge Computer with Built-in Google Mobile Service (GMS)



Features

- Built-in Google Mobile Service (GMS)
- Superior video quality: support up to 4K UHD resolution
- 6TOPS NPU Integrated for AI
- ARM G52 MC3 GPU Integrated
- Compact size for computing in everywhere
- X-type thermal isolation top cover for safe installation and user touch
- Supports Android 14 and Debian operation system

Introduction

Advantech UBX-010RC is an Ultra-compact ARM64 based Mini PC that is used for edge computing in smart city, especially for retail applications. With Built-in Google Mobile Service (GMS), UBX-010RC ensures that Android devices have access to Google's ecosystem and services, including the Google Play Store, and are equipped with advanced security features. Furthermore, it provides AI inference ability in edge side thanks to a 6TOPS NPU Integrated. And same as other UBX series products, X-type thermal isolation top cover makes it user friendly for installation and system touch.

Specifications

Model		UBX-010RC-BS00	UBX-010RC-BE00
Processor	Chipset	Rockchip RK3576 (ARM® Quad-core Cortex-A72 @ 2.2GHz + Quad-core Cortex-A53 @ 1.8GH)	Rockchip RK3576 (ARM® Quad-core Cortex-A72 @ 2.2GHz + Quad-core Cortex-A53 @ 1.8GH)
	NPU	SoC	SoC
Graphics		Integrated NPU with 6 TOPS	Integrated NPU with 6 TOPS
Memory		ARM Mali-G5	ARM Mali-G5
Storage		LPDDR4 4 GB onboard (8G optional)	LPDDR4 4 GB onboard (8G optional)
Thermal Solution		Onboard eMMC 5.1: 64 GB	Onboard eMMC 5.1: 64 GB
Resolution		Fanless with surface overheat protection	Fanless with surface overheat protection
I/O - Front	Video	USB-C*1 x1	USB-C*1 x1
	Audio	HDMI2.1 x1	HDMI2.1 x1
	USB	Audio-Out + MIC-In, Combo Audio Jack x1	Audio-Out + MIC-In, Combo Audio Jack x1
	LAN	USB 3.1 Gen1 Type A(Blue) x2	USB 3.1 Gen1 Type A(Blue) x2
	Cash Draw	USB-C (5V/3A, PD2.0, USB 3.1 Gen1 data transfer) x1	USB-C (5V/3A, PD2.0, USB 3.1 Gen1 data transfer) x1
	Power Jack	RJ45 x1 (1 x 10/100/1000 Mbps)	RJ45 x1 (1 x 10/100/1000 Mbps)
	Button	RJ12 (12V) x1	RJ12 (12V) x1
I/O - Side & Top	Expansion	DC 12V x1	DC 12V x1
	Button	Power Button & LED x1	Power Button & LED x1
I/O - Rear	USB	Micro SD Card Slot x1 for additional storage	Micro SD Card Slot x1 for additional storage
	COM	Upgrade Button x1	Upgrade Button x1
	WiFi/BT	None	USB 2.0 *3
Mounting		UART for RS-232/422/485 x2	UART for RS-232/422/485 x2
Operating System		Onboard supported (Optional antenna kit)	Onboard supported (Optional antenna kit)
Temperature		Optional VESA, Wall and Pole mounting bracket *2	Optional VESA, Wall and Pole mounting bracket *2
Target Dimensions (W x D x H)		Android 14 GMS, Debian	Android 14 GMS, Debian
Weight		Operating: 0~ 40°C	Operating: 0~ 40°C
Certifications	EMC	Storage: -40~ 60°C	Storage: -40~ 60°C
	Safety	161.0 x 86.0 x 19.0 mm	161.0 x 116.0 x 19.0 mm
		NW: 0.46kg	NW: 0.59kg
		GW: 1.12kg	GW: 1.25kg
		CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI
		UL, CB, CCC, BSMI	UL, CB, CCC, BSMI

*NOTE:

1. Use USC-M series for USB Type-C monitors to ensure better compatibility. Refer to the optional accessories table for recommended models.

2. DIN rail kit is available upon request.

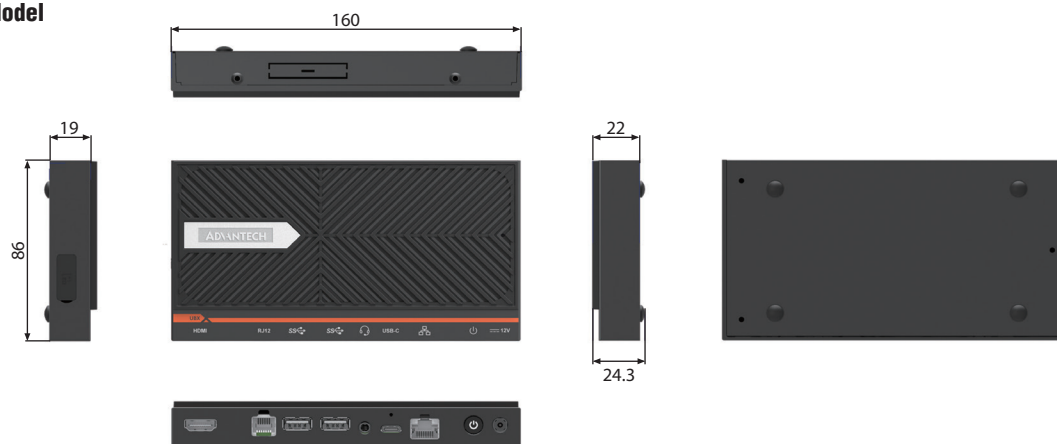
Specifications (Cont.)

DeviceOn/iService Remote Device Management	Remote Download system and 3rd party app log	✓
	Common Controls (Reboot, Shutdown)	✓
	Remote Desktop (VNC TLS)	✓
	Audio/Brightness Controls	✓
	Connection Status	✓
	Hardware & Storage Monitoring	✓
	Power & Battery Monitoring	✓
	OTA Android OS Upgrade	✓
	OTA Script Execute	✓
	OTA Software Update	✓
	Application Install/Uninstall	✓
	Policy Control	✓
	Device Auto Locked Based on Network status	✓
	Peripherals Watchlist	✓

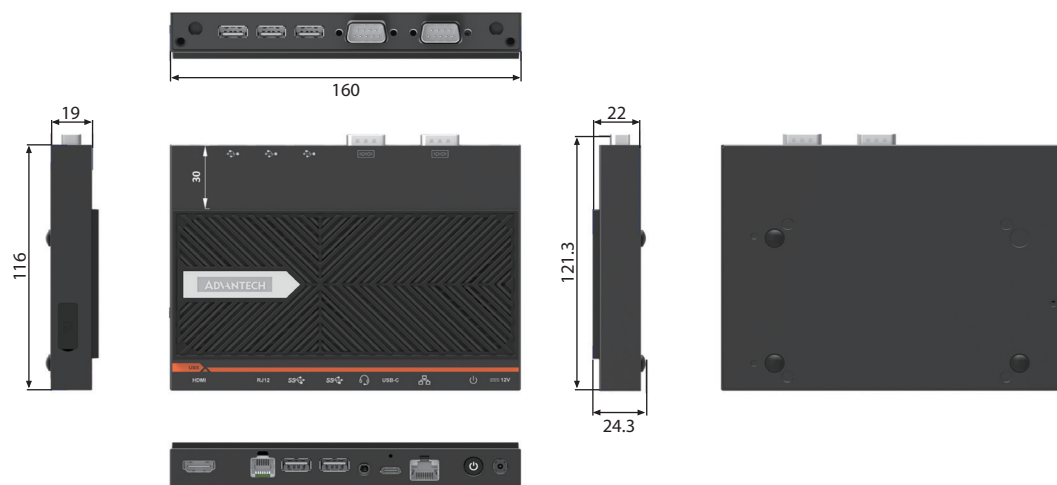
Dimensions

Unit: mm

Base Model



Enhanced I/O Model

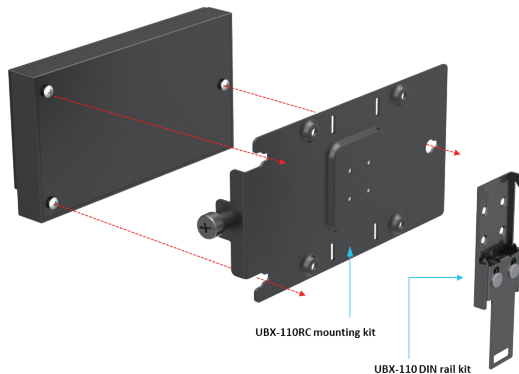


Ordering Information

PN	Description
UBX-010RC-BS00	RK3576, 4G/64G, HDMI, USB-C, 2USB-A, Android14, GMS
UBX-010RC-BE00	RK3576, 4G/64G, 5USB-A, 2COM, Android14, GMS

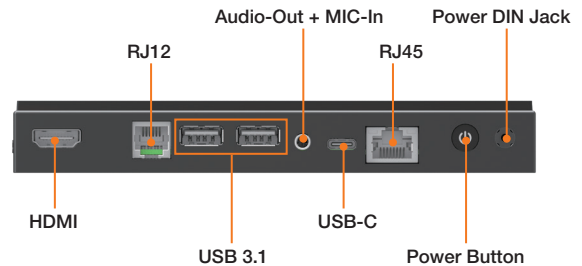
UBX-010RC Package Content

- 1 unit UBX-010RC Box Computer
- 1 pcs DC12V/60W Power Adapter

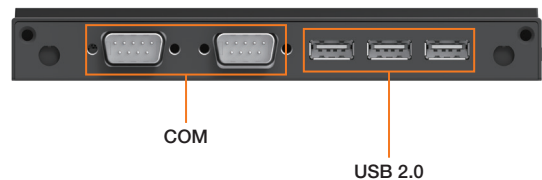


I/O Interface

Front View



Rear View (UBX-010RC-BE00 only)



Optional Accessories

Product	P/N	Description
Peripheral	UBX-010P-BK00	UBX-010RC, Universal mounting kit (Supports VESA, wall, and pole mounting)
	UBX-010P-W00E	UBX-010RC, Wi-Fi 6+ BT antenna kit
USB Type-C Monitor	USC-M10G-BTC00	10.1" monitor, Glass, Blk, VESA75, no Cable
	USC-M10P-BTC00	10.1" monitor, PCAP, Blk, VESA75, no Cable
	USC-M15WP-BST10	15.6" 16:9 monitor, PCAP, FHD, USB-C, HDMI, Blk, 75x75
Power Cord	1702002600-01	Power Cord UL 3P 10A 125V 183cm
	1700018705	Power Cord EU 3P 10A 250V 183cm 180°
	1700000596-11	Power Cord CCC 3P 10A 250V 183cm
	1700001714	Power Cord BSMI 3P 7A 125V 183cm
	1700032693-11	Power Cord BSI 3P 10A 250V 180cm (UK)
	1700000237	Power Cord PSE 3P 12A 125V 183cm (Japan)
	1702031836	Power Cord SAA 3P 10A 250V 183cm (AU)