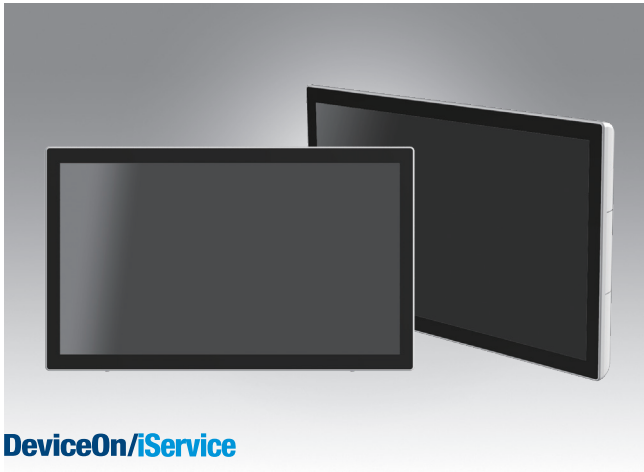


UTC-320

21.5" Ubiquitous Touch Computer UTC-320K with Intel® Atom® N97/i3-N305



DeviceOn/iService

Features

- Low power and fanless system design
- Built in Intel® Atom N97 (UTC-320K)
- 21.5" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- Supports both landscape and portrait screen orientations
- VESA 100 mm standard mounting holes for varied mounting demands
- Detachable frame design for panel mount applications
- Support DeviceOn/iService software for remote device management (UTC-320D only)
- Support TPM 2.0 (UTC-320G, UTC-320K)



Introduction

UTC-320 is the multi-purpose all-in-one computing system which equipped with wide format, touch based LCD panel. It is easy to integrate key peripherals and display systems for diversified self-service and interactive signage deploy in different application areas. With the removable frame, the system also could fulfill industries or control system applications with panel mounting design. UTC series touch panel computers are the best investments to enhance user satisfaction, further brand equity, and maximize business profits.

Moreover, UTC-320 is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn/iService enables easy device configuration and deployment for convenient remote device management.

Specifications

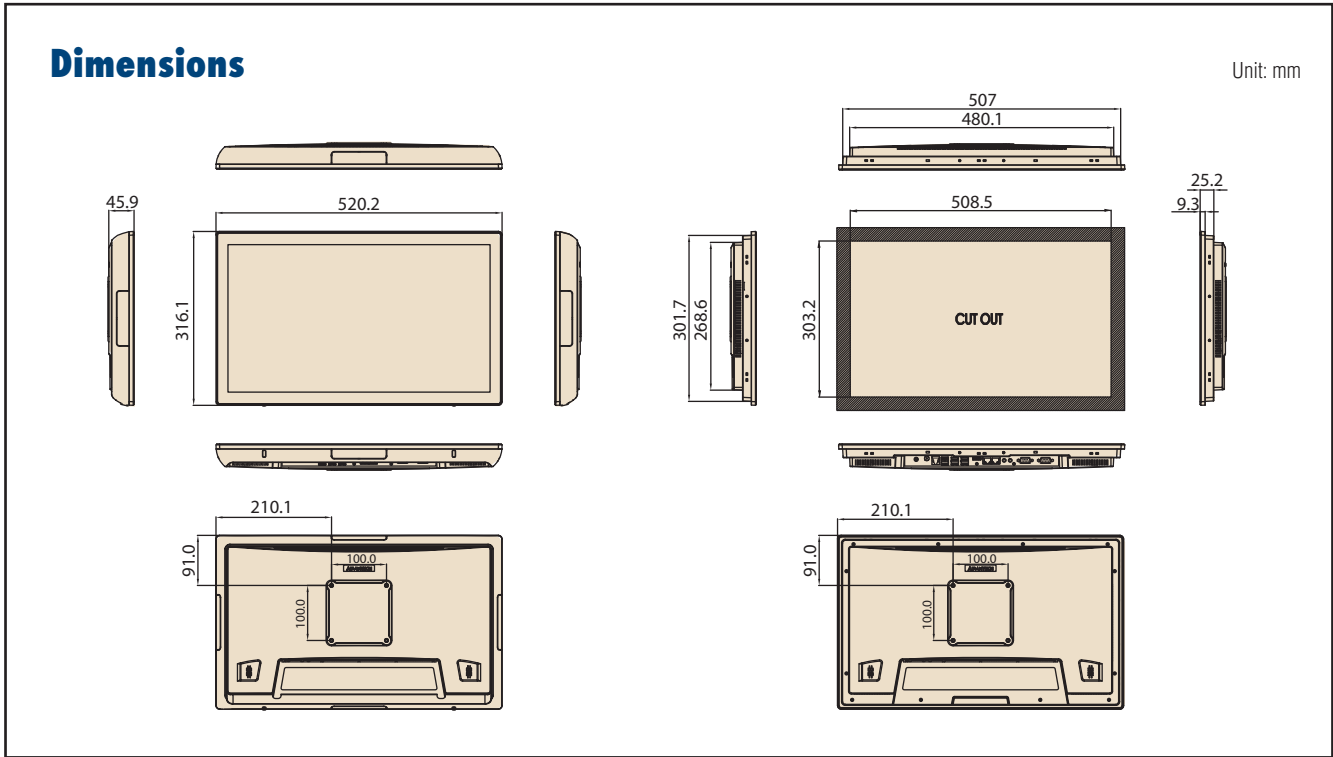
Model	UTC-320K	
Processor System	CPU	Intel® Atom® N97 (Default) Intel® Atom® i3-N305
	Basic Frequency	N97: 3.6GHz (Quad-Core) i3-N305: 3.8GHz (Octa-Core)
	Cache	L3 Cache 6MB
	Memory	1 x 262pin SO-DIMM DDR5 4800 MHz up to 16GB
	HDD	1 x 2.5 internal SATA HDD bay
	Network	2 x Gigabit Ethernet ports (RJ-45)
	I/O ports	1 x USB Type C DC IN 1 x USB Type C 2 x USB 3.2 2 x Gigabit Ethernet (RJ-45) 1 x HDMI 1 x RS-232 (RJ-48) 1 x RS-232/422/485 (RJ-48) 1 x 3.5mm Universal Audio Jack 2 x USB 2.0 Type A
	Stereo Speaker	2Wx2
	BUS expansion	1 x M.2 2280/2242 M-Key for NVMe(PCIe Gen3)/SATA SSD 1 x M.2 2230 E-Key
	Mounting	VESA 100 x 100; Screw Size: M4, 10mm
Dimension (W x H x D)	520.2 x 316.1 x 45.9 mm	
Weight	6.5 Kg	
Security	TPM2.0	Support
OS support		Win 10/11 IoT Enterprise 64bit Android 14 Linux
Environmental Specifications	Operating Temperature	0 ~ 40° C (32 ~ 104° F)
	Relative Humidity	10 ~ 95% @ 40° C non-condensing
	Vibration	0.5G
	Shock	10 G peak acceleration (11 msec. duration)
	EMC/ Safety	CE, FCC, UL, CCC, CB, BSMI, UKCA
Front Panel Protection	IP65/ NEMA4 Compliant	

Specifications (Cont.)

Power Supply	Input Voltage	20V _{DC}
	Power Consumption	Typical 45W, Max. 90W
	Adapter	20V=4.5A
LCD Display	Size	21.5" TFT LCD
	Max Resolution	1920 x 1080
	Max Color	16.7M
	Pixel Pitch (um)	248.25 (H) x 248.25 (V)
	Brightness (cd/m ²)	250 (Typical)
Touch Screen	View Angle	178°/178°
	Type	Analog Resistive 5-wires (Res. Flat Glass) / Projected Capacitive Touch Panel (Pcap. Flat Glass) / Glass Panel
	Light Transmission	90% ± 2% / 80% ± 5% / 90%
DeviceOn/iService Remote Device Management	Controller	COM interface / USB interface
	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓ (VNC)
	Audio Controls	✓*
	Connection Status	✓
	Hardware Status	✓*
	Hard Disk Status	✓*
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software Watchlist	✓
Software Start/Stop	✓*	
Peripherals Watchlist	✓*	

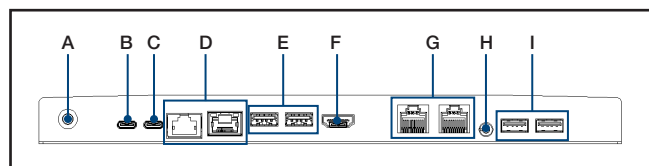
*Dependant on device model

Note: DeviceOn/iService software must be downloaded from the Advantech website at <https://www.advantech.com/search?q=DeviceOn%2FiService&st=support&sst=Utility>



Fully- Integrated I/O

UTC-320K



- A. Power button
- B. USB Type C DC IN
- C. USB Type C Only
- D. LAN x 2
- E. USB 3.2 x 2
- F. HDMI
- G. RJ48 x 2 (COM)
- H. Universal Audio Jack
- I. USB 2.0 x 2

Ordering Information

Part No.	Description
UTC-320KR-ATB0E	21.5" Black, Intel® Atom® N97, Res. T/S, 8GB RAM, IT Adapter
UTC-320KP-ATB0E	21.5" Black, Intel® Atom® N97, PCap T/S, 8GB RAM, IT Adapter
UTC-320KP-ATB1E	21.5" Black, Intel® Atom® i3-N305, PCap T/S, 8GB RAM, IT Adapter

*White coloe and white touch bezel could be customized by customer request with MOQ

UTC-320 WiFi Ordering Information

Part No.	Description
UTC-300P-W15E	M.2 Wifi Module (179), UTC-300 Series

Installation Accessory

Part No.	Description
UTC-300P-D20E	Desk Stand, Single Color-Silver (UTC-318/UTC-320 series)
UTC-T01-STANDE	Triangle shape floor stand (UTC-315/UTC-318/UTC-320 series)
UTC-H01-STANDE	H-shaped floor stand (UTC-315/UTC-318/UTC-320 series)
UTC-PANEL-MOUNT4E	Panel mount Kit(UTC-320Series)
ARES-12240-AR01100	Wall Mount Kit, support 2~10kg, VESA 75/100mm (Tilttable)
ARES-12250-L101000	Wall Mount Kit, Max. support 25kg, VESA 75/100mm (Fixed)

UTC-320K Power Cord Ordering Information

Part No.	Description
1700019146	Power cable CCC 3P 2.5A 250V 183cm
1700001524	Power cable 3P, UL, 7A, 125V, 183 cm (US, TW)
170203183C	Power cable 3P, 2.5A, 250V, 183 cm (EU)
1700018553	Power cable SAA 3P 2.5A 250V 183cm (Australia)
1700025113-11	Power cable BIS 3P 2.5A 250V 180cm (India)
1700018409	Power cable KC 3P 2.5A 250V 183cm (Korea,Russia)
170203180A	Power cable BSI 3P 2.5A 250V 183cm (UK)
1700008921	Power cable PSE 3P 7A 125V 183cm (Japan)
1700021375-01	Power cable BSMI 3P 2.5A 125V 250cm (IEC60320-C5)

Peripherals for UTC-300 series

Part No.	Description
UTC-300P-C20E	5M Camera Module, White, for UTC-300 series
UTC-300P-C21E	5M Camera Module, Black, for UTC-300 series
UTC-300P-M20E	Magnet Strip Reader, White, for UTC-300 series
UTC-300P-M21E	Magnet Strip Reader, Black, for UTC-300 series
UTC-300P-R20E	RFID Reader, White, for UTC-300 series
UTC-300P-R21E	RFID Reader, Black, for UTC-300 series
UTC-300P-S20E	Smart Card Reader, White, for UTC-300 series
UTC-300P-S21E	Smart Card Reader, Black, for UTC-300 series
UTC-300P-B60E	2D Barcode Reader, White for UTC-300 series
UTC-300P-B61E	2D Barcode Reader, Black for UTC-300 series
1700025928-03	RJ48 to D-SUB cable, 35cm

DeviceOn/iService

Unified Remote Device Management Software



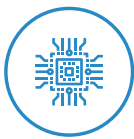
Features

- Supports Advantech devices equipped with Windows, Android, and Linux OS
- Flexible device, location, user, and permissions management
- Enables remote monitoring and control of hardware, software, and peripherals
- Supports over-the-air (OTA) firmware and software updates
- Ensures quick, easy, and secure device onboarding
- RESTful APIs for third-party system integration

Introduction

Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn/iService supports Advantech devices equipped with Windows, Linux, or Android operating systems. The software also supports the management of applications and integrated peripherals, such as a barcode scanner, card reader, camera, and printer. Users can remotely access and control connected devices, take screenshots, rollout OTA upgrades, and use remote desktop capabilities for troubleshooting from any location at any time. Moreover, DeviceOn/iService supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

Total Management



Devices & Hardware

- Windows, Linux, Android
- Hardware, storage, battery



Software & Peripherals

- Software monitoring & access
- Screens, USB devices, printers



Open for Expansion

- Peripheral integration
- Open APIs for integration

Remote Access



Real-Time Monitoring

- Connection/hardware status
- Software/peripheral status
- Failure notifications



Remote Controls

- Power controls
- Audio, backlight controls
- Software controls



Troubleshooting

- Screenshots
- Remote desktop support

Operational Efficiency



OTA updates

- System/software updates
- File repository management
- App store



Batch Controls

- 1-to-many batch reboot, etc.
- Time-saving tasks



Setup Booster

- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture

