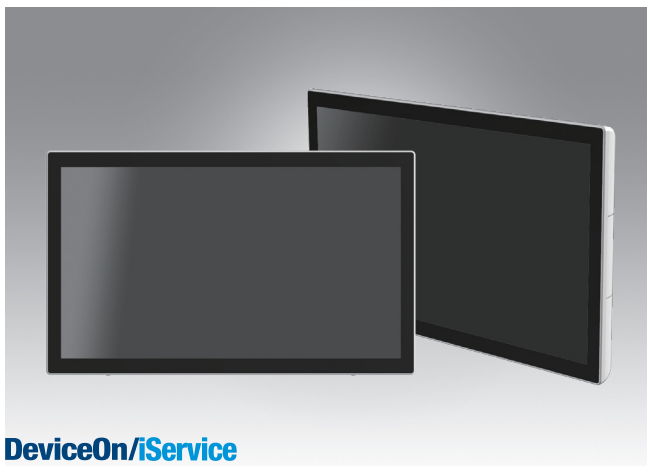


# UTC-320

**21.5" Ubiquitous Touch Computer**  
**UTC-320D with Intel® Celeron® J1900**  
**UTC-320F with Intel® Core™ i5-6300U**  
**UTC-320G with Intel® Pentium® N4200E**  
**UTC-320H with Intel® Core™ i5-8365UE**



DeviceOn/iService

## Features

- Low power and fanless system design
- Built in Intel Celeron® J1900 (UTC-320D), Core™ i5-6300U (UTC-320F) and, Pentium® N4200E (UTC-320G) and Intel® Core™ i5-8365UE (UTC-320H)
- 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/F only)



## 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

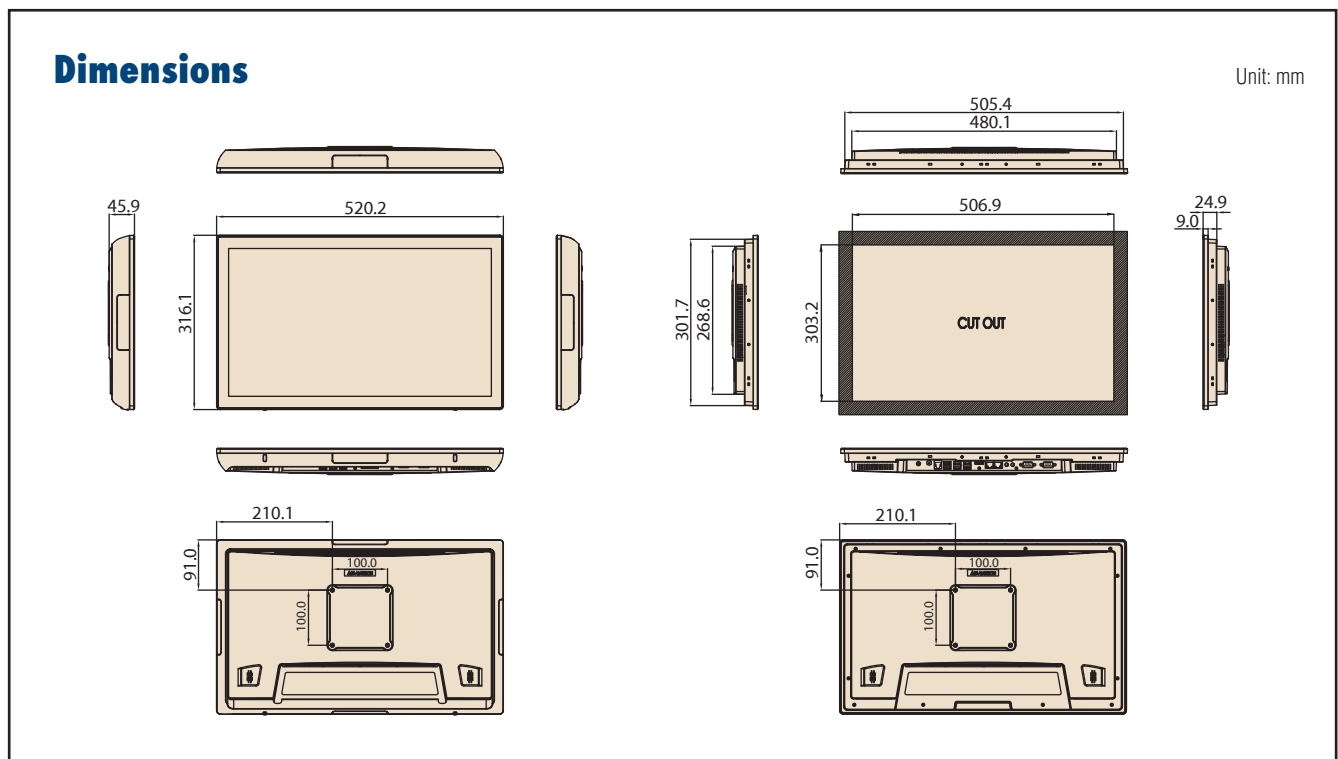
Model	UTC-320D	UTC-320F	UTC-320G	UTC-320H	
Processor System	CPU	Intel® Celeron® J1900	Intel® Core™ i5-6300U (Default) Intel® Core™ i3-6100U (Available)	Intel® Pentium® N4200E (Default) Intel® Celeron® N3350 (Available)	Intel® Core™ i5-8365UE (Default) Intel® Core™ i3-8145UE (Available)
	Basic Frequency	2.0 GHz (Quad-Core)	2.4GHz (Duo Core)	1.10 GHz (Quad-Core)	1.6GHz(Quad-Core)
	Cache	L2 Cache MB		L2 Cache 2MB	L3 Cache 3MB
	Memory	1 x 204pin SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x 260pin SO-DIMM DDR4 2133 MHz up to 16 GB	1 x 204pin SO-DIMM DDR3L 1866 MHz up to 8GB	1X 260pin SO-DIMM DDR4 2400 MHz up to 32GB
	HDD	1 x 2.5 internal SATA HDD bay			
	Network	2 x Gigabit Ethernet ports (RJ-45)			
	I/O ports	1 x RS-232 1 x RS-232 / 422 / 485 5 x USB 2.0 / 1 x USB 3.0 2 x Gigabit Ethernet (RJ-45) 1 x HDMI Audio Line-out x 1, Mic-in x 1	1 x RS-232 1 x RS-232/422/485 2 x USB 2.0 / 4 x USB 3.0 2 x Gigabit Ethernet (RJ-45) 1 x HDMI 1 x RJ-11 Audio Line-out x 1, Mic-in x 1	1 x RS-232 1 x RS232 / 422 /485 2 x USB 2.0 / 4 x USB 3.0 2 x Gigabit Ethernet (RJ-45) 1 x HDMI 1 x RJ11 Audio Line-out x 1, Mic-in x 1	1 x RS-232 1 x RS-232/485 6 x USB 3.1 2 x Gigabit Ethernet (RJ-45) 1 x HDMI 1 x DP Audio Line-out x 1, Mic-in x 1
	Stereo Speaker	2Wx2			
	BUS expansion	Full-size MiniPCIe/mSATA		M.2 2230/mSATA	
	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				
OS support	WES 7P 32bit WES 7E 32bit Windows Pro Embedded 7 SP1 64bit WES8 64bit Windows Embedded 8.1 Industry Pro 64bit Win 10 IoT Enterprise 64bit Linux Android 6.0		WES 7P 32bit WES 7E 32bit Windows Pro Embedded 7 SP1 64bit WES8 64bit Windows Embedded 8.1 Industry Pro 64bit Win 10 IoT Enterprise 64bit Linux		
			Win 10 IoT Enterprise 64bit Android 10.0 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			
Front Panel Protection	IP65/ NEMA4 Compliant				
Power Supply	Input Voltage	12Vdc *12-30Vdc Optional	12-30Vdc	12Vdc *12-30Vdc Optional	12-30Vdc
	Power Consumption	Typical 45W, Max. 80W			
	Adapter	12V == 7A, 84W or 12V == 8A, 96W ITE adapter (dependent on stock)			
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/m²)	250 (Typical)			
View Angle	178°/178°				
Touch Screen	Type	Analog Resistive 5-wires (Res. Flat Glass) / Projected Capacitive Touch Panel (Pcap. Flat Glass) / Glass Panel			
	Light Transmission	90% ± 2% / 80% ± 5% / 90%			
	Controller	COM interface / USB interface			

## Specifications (Cont.)

DeviceOn/iService Remote Device Management	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	✓*

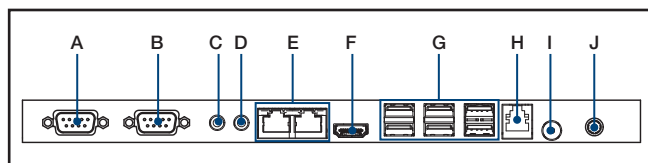
\*Dependant on device model

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



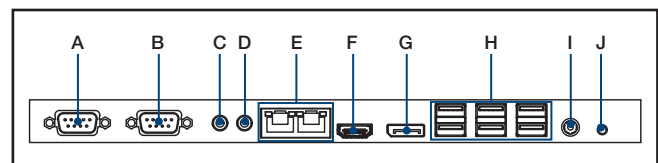
## Fully- Integrated I/O

### UTC-320D/F/G



- A. COM1
- B. COM2
- C. Line-out (UTC-320D)
- D. Mic-in (UTC-320F/UTC-320G)
- E. Line-Out (UTC-320F/UTC-320G)
- F. LAN ports x 2
- G. USB 2.0 x 5 / USB 3.0 x 1 (UTC-320D)  
USB 2.0 x 2 / USB 3.0 x 4 (UTC-320F/  
UTC-320G)
- H. RJ-11 (UTC-320F/UTC-320G)
- I. Power button
- J. DC input 12V (UTC-320D/UTC-320G)  
12-30V (UTC-320F)

### UTC-320H



- A. COM1
- B. COM2
- C. Mic in
- D. Line-out
- E. LAN ports x 2
- F. HDMI
- G. DP
- H. USB 3.1 x 6
- I. DC input 12-30V
- J. Power button

## Ordering Information

Part No.	US only P/N	Description
UTC-320DR-ATW0E	UTC-320DR-USW0E	21.5" White, Intel® Celeron® J1900, Res T/S, 4GB RAM, IT Adapter
UTC-320DR-ATB0E	UTC-320DR-USB0E	21.5" Black, Intel® Celeron® J1900, Res T/S, 4GB RAM, IT Adapter
UTC-320DP-ATW0E	UTC-320DP-USW0E	21.5" White, Intel® Celeron® J1900, PCap T/S, 4GB RAM, IT Adapter
UTC-320DP-ATB0E	UTC-320DP-USB0E	21.5" Black, Intel® Celeron® J1900, PCap T/S, 4GB RAM, IT Adapter
UTC-320FR-ATW0E	UTC-320FR-USW0E	21.5" White, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-320FR-ATB0E	UTC-320FR-USB0E	21.5" Black, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-320FP-ATW0E	UTC-320FP-USW0E	21.5" White, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-320FP-ATB0E	UTC-320FP-USB0E	21.5" Black, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-320GR-ATW0E	UTC-320GR-USW0E	21.5" White, Intel® Pentium® N4200E, Res T/S, 4GB RAM, IT Adapter
UTC-320GR-ATB0E	UTC-320GR-USB0E	21.5" Black, Intel® Pentium® N4200E, Res T/S, 4GB RAM, IT Adapter
UTC-320GP-ATW0E	UTC-320GP-USW0E	21.5" White, Intel® Pentium® N4200E, PCap T/S, 4GB RAM, IT Adapter
UTC-320GP-ATB0E	UTC-320GP-USB0E	21.5" Black, Intel® Pentium® N4200E, PCap T/S, 4GB RAM, IT Adapter
UTC-320HR-ATW0E	UTC-320HR-USW0E	21.5" White, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-320HR-ATB0E	UTC-320HR-USB0E	21.5" Black, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-320HP-ATW0E	UTC-320HP-USW0E	21.5" White, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter
UTC-320HP-ATB0E	UTC-320HP-USB0E	21.5" Black, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter

\*White Touch Bezel could be customized by customer request with MOQ

### UTC-320 WiFi Ordering Information

Part No.	US only P/N	Description
UTC-300P-W10E	UTC-300P-W10U	WiFi Kit for UTC-320D/E/F (MiniPCle, WiFi only)
UTC-300P-W11E	UTC-300P-W11U	WiFi Kit for UTC-320D/E/F (MiniPCle, WiFi and Bluetooth)
UTC-300P-W12E	UTC-300P-W12U	WiFi Kit for UTC-320G/H (M.2 2230, WiFi and Bluetooth)

### Installation Accessory

Part No.	US only P/N	Description
UTC-300P-D20E	UTC-300P-D20U	Desk Stand, Single Color-Silver (UTC-318/UTC-320 series)
UTC-T01-STANDE	Not applicable	Triangle shape floor stand (UTC-315/UTC-318/UTC-320 series)
UTC-H01-STANDE	Not applicable	H-shaped floor stand (UTC-315/UTC-318/UTC-320 series)
UTC-PANEL-MOUNT4E	UTC-PANEL-MOUNT4U	Panel mount Kit(UTC-320Series)
UTC-WALL-MOUNT1E	Not Applicable	Wall Mount Kit for UTC-315/318/320 (Swivel)
UTC-WALL-MOUNT3E	Not applicable	Wall Mount Kit for UTC-315/318/320 (Fixed)

### Peripherals for UTC-300 series

Part No.	US only P/N	Description
UTC-300P-C20E	UTC-300P-C20U	5M Camera Module, White, for UTC-300 series
UTC-300P-C21E	UTC-300P-C21U	5M Camera Module, Black, for UTC-300 series
UTC-300P-M20E	UTC-300P-M20U	Magnet Strip Reader, White, for UTC-300 series
UTC-300P-M21E	UTC-300P-M21U	Magnet Strip Reader, Black, for UTC-300 series
UTC-300P-R20E	UTC-300P-R20U	RFID Reader, White, for UTC-300 series
UTC-300P-R21E	UTC-300P-R21U	RFID Reader, Black, for UTC-300 series
UTC-300P-S20E	UTC-300P-S20U	Smart Card Reader, White, for UTC-300 series
UTC-300P-S21E	UTC-300P-S21U	Smart Card Reader, Black, for UTC-300 series
UTC-300P-B60E	UTC-300P-B60U	2D Barcode Reader, White for UTC-300 series
UTC-300P-B61E	UTC-300P-B61U	2D Barcode Reader, Black for UTC-300 series
UTC-300P-FP11E	UTC-300P-FP11U	Fingerprint Reader (black) for UTC-300 series

### Power Cord Ordering Information

Part No.	Description
1702002605	Power cord 2P FRANCE 10A/16A 220V 1.83M 90D
1702002600	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
170000596-11	Power Cord (China) CCC, 10A 250V, 3P 1830mm
1700018704	Power Cord UK BSI 2P 10A 250V 180cm 18AWG
1700000237	Power Cord PSE 3P 12A 125V 183cm
1700001714	Power Cord BSMI 3P 7A 125V 183cm

# 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

