

# UTC-315

**15.6" Ubiquitous Touch Computer**  
**UTC-315D with Intel® Celeron® J1900**  
**UTC-315F with Intel® Core™ i5-6300U**  
**UTC-315G with Intel® Pentium® N4200E**  
**UTC-315H with Intel® Core™ i5-8365UE**



DeviceOn/iService

## Features

- Low power and fanless system design
- Built in Intel Celeron® J1900 (UTC-315D), Core™ i5-6300U (UTC-315F), Pentium® N4200E (UTC-315G) and Intel® Core™ i5-8365UE (UTC-315H)
- 15.6" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- Supports both landscape and portrait screen orientations
- VESA 75 mm standard mounting holes for varied mounting demands
- Detachable frame design for panel mount applications
- Support DeviceOn/iService software for remote device management (UTC-315D/F only)
- Support TPM 2.0 (UTC-315F&H)



## Introduction

UTC-315 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-315 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.

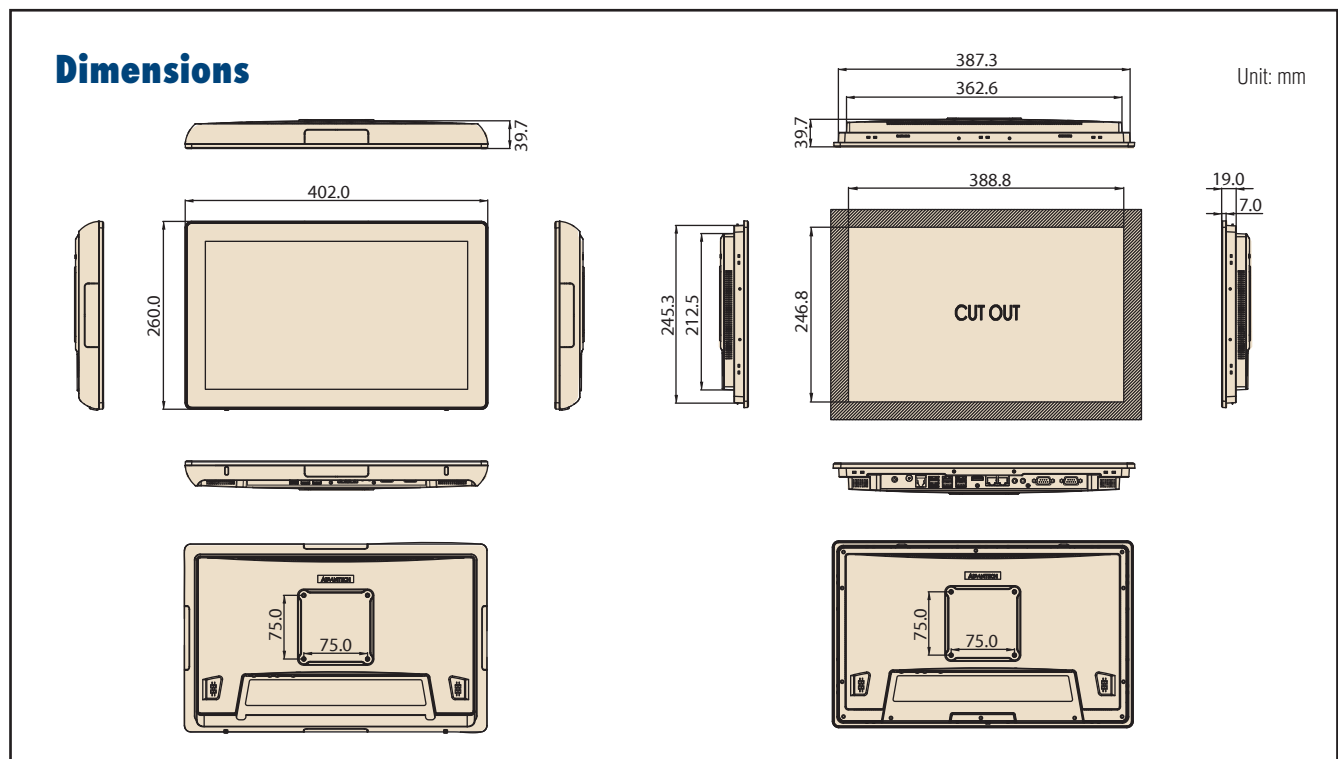
## Specifications

Model	UTC-315D		UTC-315F		UTC-315G		UTC-315H		
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)	
	L2 Cache MB	2MB		L3 Cache 3MB		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 1 x RJ-11 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 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 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		M.2 2280 (NVMe) or M.2 2242/M.2 2230	
	Mounting	VESA 75 x 75; crew Size: M4, 10mm							
Dimension (W x H x D)	402 x 260 x 39.7 mm								
Weight	3.5 kg								
Security	TPM2.0		Support		Optional		Support		
OS support	WES 7P 32bit WES 7E 32bit Windows Pro Embedded 7 SP1 64bit WE8S 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 WE8S 64bit Windows Embedded 8.1 Industry Pro 64bit Win 10 IoT Enterprise 64bit Linux		Win 10 IoT Enterprise 64bit Android 10.0 Linux		Win 10 IoT Enterprise 64bit 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							
Power Supply	Input Voltage	12V <sub>DC</sub> *12-30V <sub>DC</sub> Optional		12-30V <sub>DC</sub>		12V <sub>DC</sub> *12-30V <sub>DC</sub> Optional		12-30V <sub>DC</sub>	
	Power Consumption	Typical 32W, Max. 70W							
	Adapter	12V == 7A, 84W or 12V == 8A, 96W ITE adapter (dependent on stock)							
LCD Display	Size	15.6" TFT LCD				15.6" TFT LCD			
	Max Resolution	1366 x 768 (FHD 1920 x 1080 Optional)				1920 x 1080			
	Max Color	262K				262K			
	Pixel Pitch (um)	252(H) x 252(V)				252(H) x 252(V)			
	Brightness (cd/m <sup>2</sup> )	220 (Typical)				220 (Typical)			
View Angle	90° /60°(170°/ 170° Optional)				170° / 170°				
Touch Screen	Type	Analog Resistive 5-wires (Res. Flat Glass) / Projected Capacitive Touch Panel (Pcap. Flat Glass) / Glass Panel							
	Light Transmission	Res. Touch : 80% ± 5% / P-Cap Touch : 90% ± 2%							
	Controller	COM interface / USB interface							

## Specifications (Cont.)

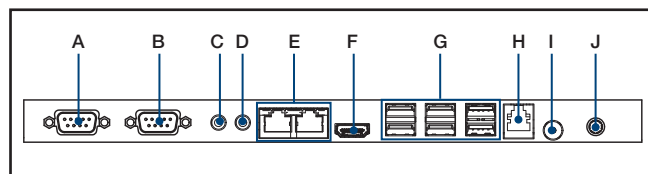
DeviceOn/iService Remote Device Management	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓ (VNC)
	Audio Controls	✓*
	Connection Status	✓
	Hardware Status	✓*
	Hard Disk Status	✓*
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software Watchlist	✓
	Software Start/Stop	✓*
*Dependant on device model	Peripherals Watchlist	✓*

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



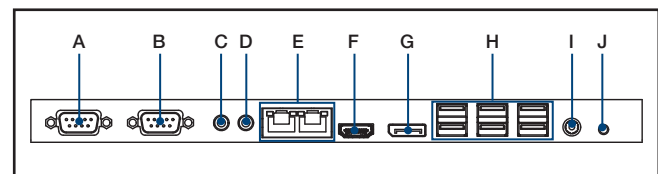
## Fully- Integrated I/O

### UTC-315D/F/G



- A. COM1
- B. COM2
- C. Line-out (UTC-315D)
- C. Mic in (UTC-315F/UTC-315G)
- D. Mic in (UTC-315D)
- D. Line-Out (UTC-315F/UTC-315G)
- E. LAN ports x 2
- F. HDMI
- G. USB 2.0 x 5 / USB 3.0 x 1 (UTC-315D)  
USB 2.0 x 2 / USB 3.0 x 4 (UTC-315F/  
UTC-315G)
- H. RJ-11
- I. Power button
- J. DC input 12V (UTC-315D/UTC-315G)  
12-30V (UTC-315F)

### UTC-315H



- 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-315DR-ATW0E	UTC-315DR-USW0E	15.6" White, Intel® Celeron® J1900, Res T/S, 4 GB RAM, IT Adapter
UTC-315DR-ATB0E	UTC-315DR-USB0E	15.6" Black, Intel® Celeron® J1900, Res T/S, 4 GB RAM, IT Adapter
UTC-315DP-ATW0E	UTC-315DP-USW0E	15.6" White, Intel® Celeron® J1900, PCap T/S, 4 GB RAM, IT Adapter
UTC-315DP-ATB0E	UTC-315DP-USB0E	15.6" Black, Intel® Celeron® J1900, PCap T/S, 4 GB RAM, IT Adapter
UTC-315FR-ATW0E	UTC-315FR-USW0E	15.6" White, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-315FR-ATB0E	UTC-315FR-USB0E	15.6" Black, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-315FP-ATW0E	UTC-315FP-USW0E	15.6" White, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-315FP-ATB0E	UTC-315FP-USB0E	15.6" Black, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-315GR-ATW0E	UTC-315GR-USW0E	15.6" White, Intel® Pentium® N4200E, Res T/S, 4 GB RAM, IT Adapter
UTC-315GR-ATB0E	UTC-315GR-USB0E	15.6" Black, Intel® Pentium® N4200E, Res T/S, 4 GB RAM, IT Adapter
UTC-315GP-ATW0E	UTC-315GP-USW0E	15.6" White, Intel® Pentium® N4200E, PCap T/S, 4 GB RAM, IT Adapter
UTC-315GP-ATB0E	UTC-315GP-USB0E	15.6" Black, Intel® Pentium® N4200E, PCap T/S, 4 GB RAM, IT Adapter
UTC-315HR-ATW0E	UTC-315HR-USW0E	15.6" White, Intel® Core™ i5-8365UE, Res T/S 8GB RAM, IT Adapter
UTC-315HR-ATB0E	UTC-315HR-USB0E	15.6" Black, Intel® Core™ i5-8365UE, Res T/S 8GB RAM, IT Adapter
UTC-315HP-ATW0E	UTC-315HP-USW0E	15.6" White, Intel® Core™ i5-8365UE, PCap T/S 8GB RAM, IT Adapter
UTC-315HP-ATB0E	UTC-315HP-USB0E	15.6" Black, Intel® Core™ i5-8365UE, PCap T/S 8GB RAM, IT Adapter

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

### UTC-315 WiFi Ordering Information

Part No.	US only P/N	Description
UTC-300P-W10E	UTC-300P-W10U	WiFi Kit for UTC-315D/E/F (MiniPCIe, WiFi only)
UTC-300P-W11E	UTC-300P-W11U	WiFi Kit for UTC-315D/E/F (MiniPCIe, WiFi and Bluetooth)
UTC-300P-W12E	UTC-300P-W12U	WiFi Kit for UTC-315G/H (M.2 2230, WiFi and Bluetooth)

### Installation Accessory

Part No.	US only P/N	Description
UTC-300P-D10E	UTC-300P-D10U	Desk Stand, Single Color-Silver (UTC-315 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-MOUNT6E	UTC-PANEL-MOUNT6U	Panel mount Kit (UTC-315 series)
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
1700000596-11	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

