

# UTC-318

**18.5" Ubiquitous Touch Computer**  
**UTC-318D with Intel® Celeron® J1900**  
**UTC-318F with Intel® Core™ i5-6300U**  
**UTC-318G with Intel® Pentium® N4200E**  
**UTC-318H with Intel® Core™ i5-8365UE**



DeviceOn/iService

Vertrieb durch   
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## Features

- Low power and fanless system design
- Built in Intel Celeron® J1900 (UTC-318D), Core™ i5-6300U (UTC-318F), Pentium® N4200E(UTC-318G) and Intel® Core™ i5-8365UE (UTC-318H)
- 18.5" 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-318D/F only)
- Support TPM 2.0 (UTC-318F&H)



## Introduction

UTC-318 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-318 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.

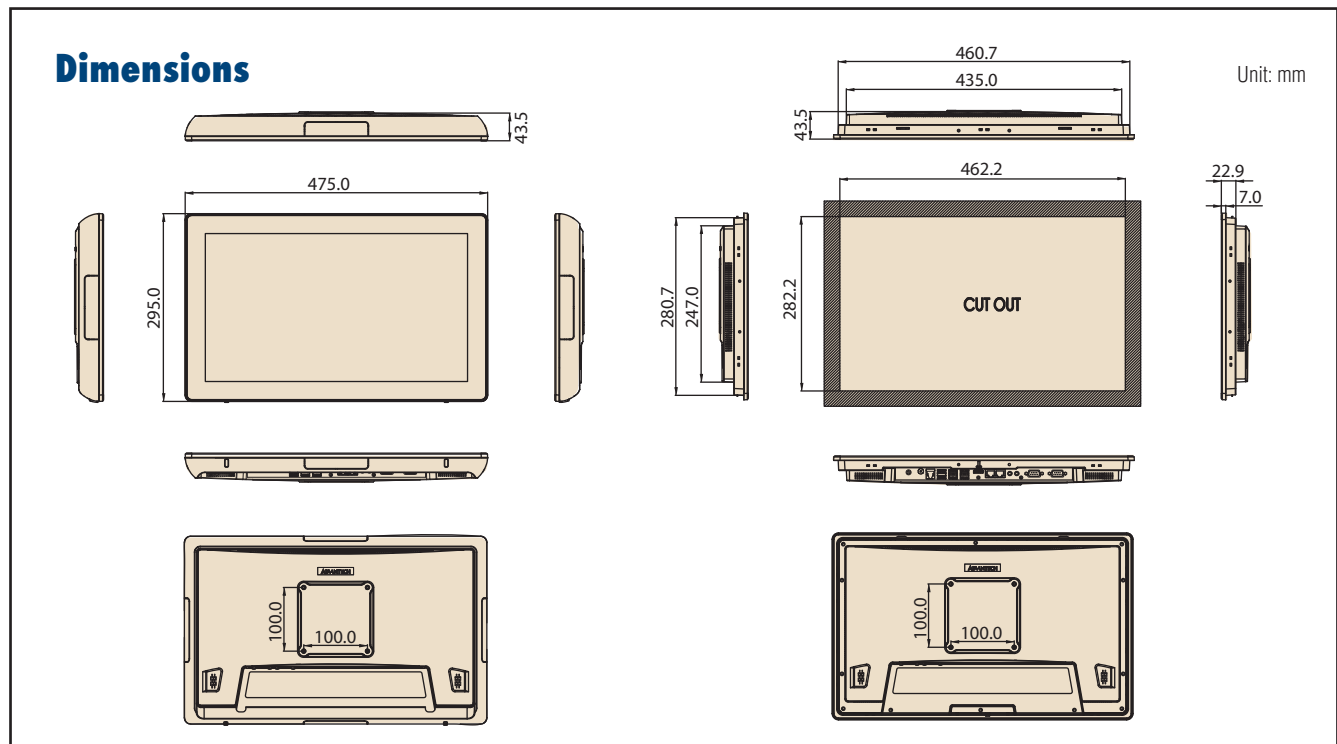
## Specifications

Model	UTC-318D	UTC-318F	UTC-318G	UTC-318H	
CPU	Intel® Celeron® J1900	Intel® Core™ i5-6300U (Default) Intel® Core™ i3-6100U (Available)	Intel® Pentium® N4200E (Default) Intel® Celeron® N3350E (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	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	1 x 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)				
Processor System	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 RJ11 (12V output only) 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 (12V output only) 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	2W x 2			
	BUS expansion	Full-size MiniPCIe/mSATA		1x Full-size MiniPCIe for mSATA SSD 1x M.2 2230 E-Key	1x M.2 2280/2242 M-Key for NVMe/ SATA SSD 1x M.2 2230 E-Key
	Mounting Dimension(WxHxD) Weight	VESA 100 x 100; Screw Size: M4, 10mm 475 x 295 x 43.5 mm 5 kg			
Security	TPM2.0	Support	Optional	Support	
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	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)			
Power Supply	EMC/ Safety	CE, FCC, UL, CCC CB,BSMI			
	Front Panel Protection	IP65/ NEMA4 Compliant			
LCD Display	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			
Touch Screen	Adapter	12V ≐ 7A, 84W or 12V ≐ 8A, 96W ITE adapter (dependent on stock)			
	Size	18.5" TFT LCD			
	Max Resolution	1366 x 768 (FHD 1920 x 1080 Optional)			
	Max Color	16.7M			
	Pixel Pitch (um)	300(H) x 300(V)			
	Brightness (cd/m²)	250(Typical)/ 350 (FHD Optional)			
Touch Screen	View Angle	170°/160°			
	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.)

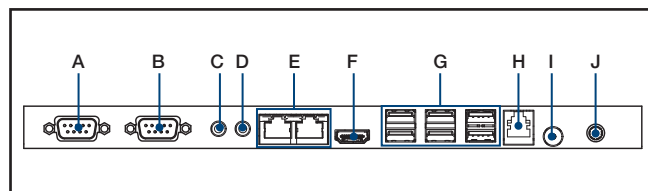
DeviceOn/iService Remote Device Management	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓ (VNC)
	Audio Controls	✓*
	Connection Status	✓
	Hardware Status	✓*
	Hard Disk Status	✓*
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software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

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



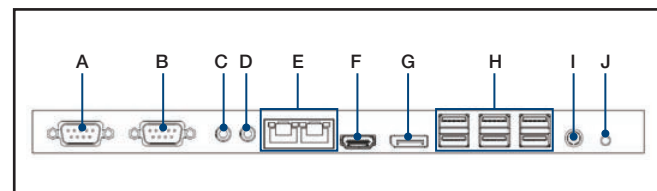
## Fully-Integrated I/O

### UTC-318D/F/G



- A. COM1
- B. COM2
- C. Line-out (UTC-318D)
- C. Mic-in (UTC-318F/UTC-318G)
- D. Mic-in (UTC-318D)
- D. Line-Out (UTC-318F/UTC-318G)
- E. LAN ports x 2
- F. HDMI
- G. USB 2.0 x 5 / USB 3.0 x 1 (UTC-31D)  
USB 2.0 x 2 / USB 3.0 x 4 (UTC-318F/  
UTC-318G)
- H. RJ-11 (UTC-318F/G, 12V output only)
- I. Power button
- J. DC input 12V (UTC-318D/UTC-318G)  
12-30V (UTC-318F)

### UTC-318H



- 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-318DR-ATW0E	UTC-318DR-USW0E	18.5" White, Intel® Celeron® J1900, Res T/S, 4 GB RAM, IT Adapter
UTC-318DR-ATB0E	UTC-318DR-USB0E	18.5" Black, Intel® Celeron® J1900, Res T/S, 4 GB RAM, IT Adapter
UTC-318DP-ATW0E	UTC-318DP-USW0E	18.5" White, Intel® Celeron® J1900, PCap T/S, 4 GB RAM, IT Adapter
UTC-318DP-ATB0E	UTC-318DP-USB0E	18.5" Black, Intel® Celeron® J1900, PCap T/S, 4 GB RAM, IT Adapter
UTC-318FR-ATW0E	UTC-318FR-USW0E	18.5" White, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-318FR-ATB0E	UTC-318FR-USB0E	18.5" Black, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-318FP-ATW0E	UTC-318FP-USW0E	18.5" White, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-318FP-ATB0E	UTC-318FP-USB0E	18.5" Black, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-318GR-ATW0E	UTC-318GR-USW0E	18.5" White, Intel® Pentium® N4200E, Res T/S, 4 GB RAM, IT Adapter
UTC-318GR-ATB0E	UTC-318GR-USB0E	18.5" Black, Intel® Pentium® N4200E, Res T/S, 4 GB RAM, IT Adapter
UTC-318GP-ATW0E	UTC-318GP-USW0E	18.5" White, Intel® Pentium® N4200E, PCap T/S, 4 GB RAM, IT Adapter
UTC-318GP-ATB0E	UTC-318GP-USB0E	18.5" Black, Intel® Pentium® N4200E, PCap T/S, 4 GB RAM, IT Adapter
UTC-318HR-ATW0E	UTC-318HR-USW0E	18.5" White, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-318HR-ATB0E	UTC-318HR-USB0E	18.5" Black, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-318HP-ATW0E	UTC-318HP-USW0E	18.5" White, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter
UTC-318HP-ATB0E	UTC-318HP-USB0E	18.5" Black, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter

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

### UTC-318 WiFi Ordering Information

Part No.	US only P/N	Description
UTC-300P-W10E	UTC-300P-W10U	WiFi Kit for UTC-318D/F (MiniPCle, WiFi only)
UTC-300P-W11E	UTC-300P-W11U	WiFi Kit for UTC-318D/F (MiniPCle, WiFi and Bluetooth)
UTC-300P-W12E	UTC-300P-W12U	WiFi Kit for UTC-318G/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-MOUNT5E	UTC-PANEL-MOUNT5U	Panel Mount Kit (UTC-318 Series)
ARES-12240-AR01100	Not Applicable	Wall Mount Kit, support 2-10kg, VESA 75/100mm (Tilttable)
ARES-12250-L101000	Not applicable	Wall Mount Kit, Max. support 25kg, VESA 75/100mm (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

Vertrieb durch

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