

UTC-318

18.5" Ubiquitous Touch Computer

UTC-318F with 6th Gen Intel® Core™ i5/i3 Processor

UTC-318H with 8th Gen Intel® Core™ i7/i5/i3 Processor

UTC-318I with 11th Gen Intel® Core™ i7/i5/i3 and Celeron® 6305E Processor



DeviceOn/iService

Features

- Low power and fanless system design
- Built in Intel Core™ i5-6300U (UTC-318F), Intel® Core™ i5-8365UE (UTC-318H) and Intel® Core™ i5-1145G7E (UTC-318I)
- 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-318F only)
- Support TPM 2.0 (UTC-318F/H/I)



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-318F	UTC-318H	UTC-318I	
Processor System	CPU	Intel® Core™ i5-6300U (Default) Intel® Core™ i3-6100U	Intel Core i7-8665UE Intel Core i5-8365UE (Default) Intel Core i3-8145UE	Intel Core i7-1185G7E Intel Core i5-1145G7E (Default) Intel Core i3-1115G4E Intel Celeron 6305E
	Basic Frequency	i5: 2.4 GHz (Dual-Core) i3: 2.3 GHz (Dual-Core)	i7: 1.70 GHz (Quad-Core) i5: 1.60 GHz (Quad-Core) i3: 2.20 GHz (Dual-Core)	i7: 1.80 GHz (Quad-Core) i5: 1.50 GHz (Quad-Core) i3: 2.20 GHz (Dual-Core) Celeron 6305E: 1.8GHz (Dual-Core)
	Cache	i5: 3MB i3: 3MB	i7: 8 MB i5: 6 MB i3: 4 MB	i7: 12 MB i5: 8 MB i3: 6 MB Celeron 6305E: 4MB
	Memory	1 x 260pin SO-DIMM DDR4 2133 MHz up to 16 GB	1 x 260pin SO-DIMM DDR4 2400 MHz up to 32GB	1 x 260pin SO-DIMM DDR4 3200 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 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	1 x RS-232 1 x RS-232/485 2 x USB 2.0 / 4 x USB 3.2 2 x Gigabit Ethernet (RJ-45) 1 x HDMI Audio Line-out x 1, Mic-in x 1
	Stereo Speaker	2W x 2		
	BUS expansion	Full-size MiniPCIe/mSATA	1x M.2 2280/2242 M-Key for NVMe/SATA SSD 1x M.2 2230 E-Key	
	Mounting	VESA 100 x 100; Screw Size: M4, 10mm		
	Dimension(WxHxD)	475 x 295 x 43.5 mm		
	Weight	5 kg		
	Security	TPM2.0	Support	
OS support	Win 10 IOT Enterprise 64bit Linux		Win 10 IOT Enterprise 64bit Win 11 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, UKCA		
Front Panel Protection	IP65/ NEMA4 Compliant			

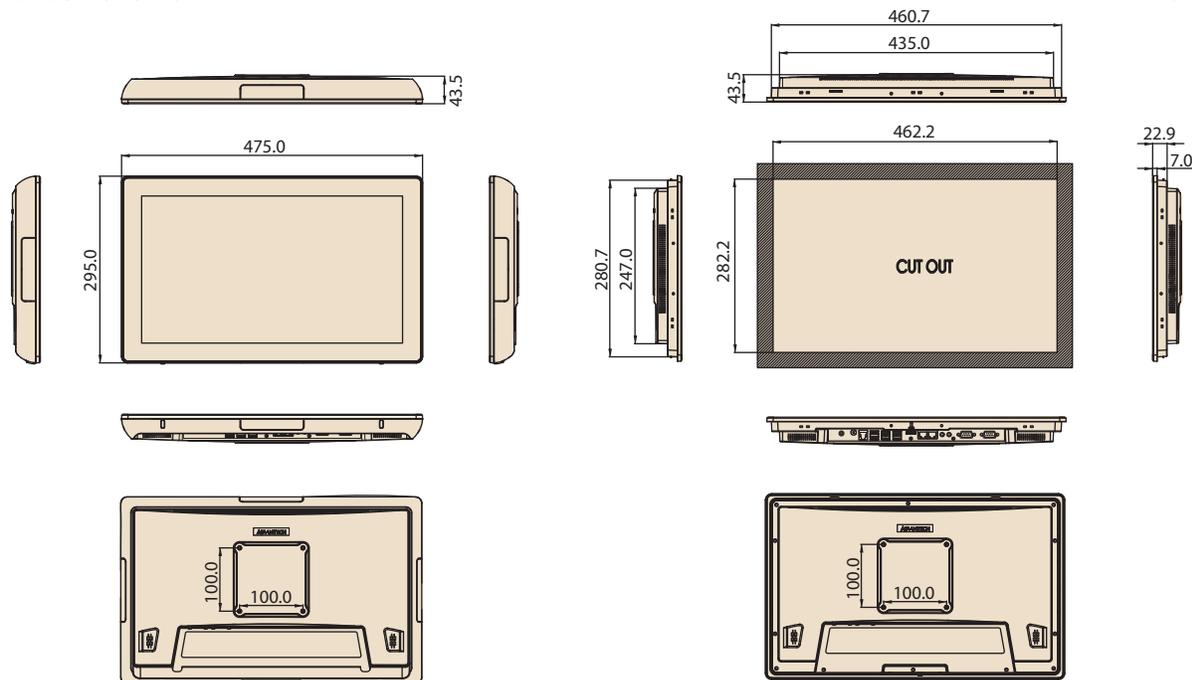
Specifications (Cont.)

Power Supply	Input Voltage	12-30V _{DC}
	Power Consumption	Typical 32W, Max. 70W
	Adapter	12V = 7A, 84W or 12V = 8A, 96W ITE adapter (dependent on stock)
LCD Display	Size	18.5" TFT LCD
	Max Resolution	1366 x 768 (FHD 1920 x 1080 Optional)
	Max Color	16.7M
	Pixel Pitch (um)	100(H) x 300(V) HD/ 213(H) x 213(V) FHD Optional
	Brightness (cd/m ²)	250(Typical)/ 350 (FHD Optional)
Touch Screen	View Angle	178/178
	Type	Analog Resistive 5-wires (Res. Flat Glass) / Projected Capacitive Touch Panel (Pcap. Flat Glass)
	Light Transmission	Res. Touch: 80% ± 3% / P-Cap Touch: ≥85%
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	✓	
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>

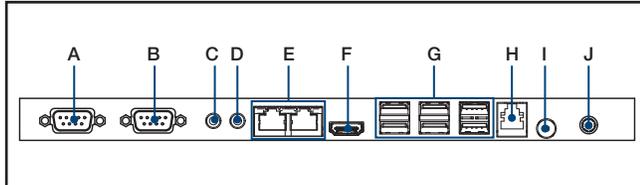
Dimensions

Unit: mm



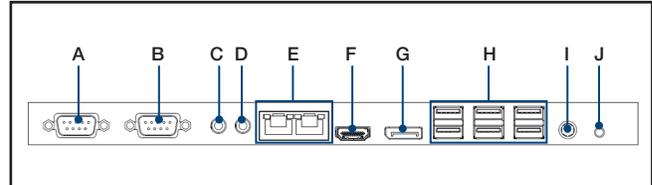
Fully-Integrated I/O

UTC-318F



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

UTC-318H/I



- A. COM1
- B. COM2
- C. Mic in
- D. Line out
- E. LAN ports x 2
- F. HDMI
- G. DP (UTC-318H)
- H. USB 3.1 x 6 (UTC-318H)
USB 2.0 x 2 / USB 3.2 x 4 (UTC-318I)
- I. DC input 12-30V
- J. Power button

Ordering Information

Part No.	Description
UTC-318FR-ATW0E	18.5" White, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-318FR-ATB0E	18.5" Black, Intel® Core™ i5-6300U, Res T/S 4GB RAM, IT Adapter
UTC-318FP-ATW0E	18.5" White, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-318FP-ATB0E	18.5" Black, Intel® Core™ i5-6300U, PCap T/S 4GB RAM, IT Adapter
UTC-318HR-ATW0E	18.5" White, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-318HR-ATB0E	18.5" Black, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-318HP-ATW0E	18.5" White, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter
UTC-318HP-ATB0E	18.5" Black, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter
UTC-318IR-ATW0E	18.5" White, Intel® Core™ i5-1145G7E, Res T/S, 8GB RAM, IT Adapter
UTC-318IR-ATB0E	18.5" Black, Intel® Core™ i5-1145G7E, Res T/S, 8GB RAM, IT Adapter
UTC-318IP-ATW0E	18.5" White, Intel® Core™ i5-1145G7E, PCap T/S, 8GB RAM, IT Adapter
UTC-318IP-ATB0E	18.5" Black, Intel® Core™ i5-1145G7E, PCap T/S, 8GB RAM, IT Adapter
UTC-318IP-ATB1E	18.5" Black, Intel® Core™ i3-1115G4E, PCap T/S, 8GB RAM, IT Adapter

*White Touch Bezel and other CPU configuration could be customized by customer request with MOQ

UTC-318 WiFi Ordering Information

Part No.	Description
UTC-300P-W11E	WiFi Kit for UTC-318F (MiniPCIe, WiFi and Bluetooth)
UTC-300P-W12E	WiFi Kit for UTC-318H/I (M.2 2230, WiFi and Bluetooth)
UTC-300P-W13E	Wifi Kit for UTC-318F
UTC-300P-W14E	Wifi Kit for UTC-318H/I

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-MOUNT5E	Panel Mount Kit (UTC-318 Series)
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)

Peripherals for UTC-300 series

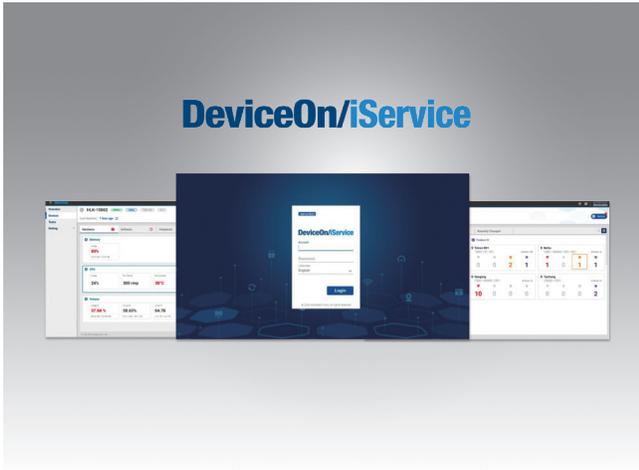
Part No.	Description
UTC-300P-C20E	5M Camera Module, White, for UTC-300 series
UTC-300P-C21E	5M Camera Module, Black, for UTC-300 series
UTC-300P-M20E	Magnet Strip Reader, White, for UTC-300 series
UTC-300P-M21E	Magnet Strip Reader, Black, for UTC-300 series
UTC-300P-R20E	RFID Reader, White, for UTC-300 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

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

