

UTC-318

18.5" Ubiquitous Touch Computer

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™ i5-8365UE (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
- Support TPM 2.0



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-318H | UTC-318I | |
|------------------------------|--------------------------------------|---|---|
| Processor System | CPU | 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 | 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 | 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 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-232/485 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 | 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 | | |

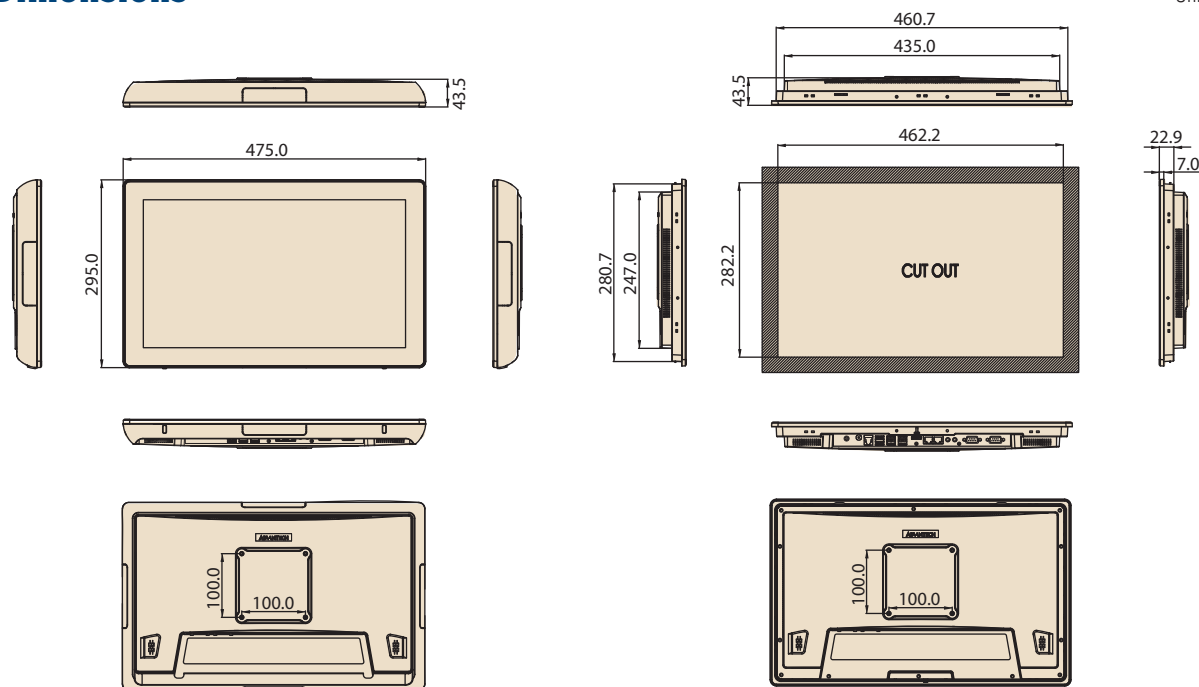
Specifications (Cont.)

| | | |
|---|------------------------------------|--|
| 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>

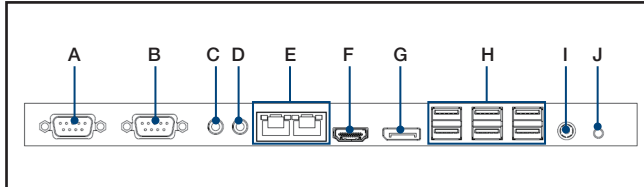
Dimensions

Unit: mm



Fully-Integrated I/O

UTC-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-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-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-MOUNT5E | Panel Mount Kit (UTC-318 Series) |
| ARES-12240-AR01100 | Wall Mount Kit, support 2-10kg, VESA 75/100mm (Tiltable) |
| 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



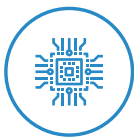
Features

- 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

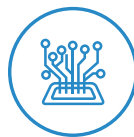
- Peripheral integration
- Open APIs for integration

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

