

# UTC-520

## 21.5" Ubiquitous Touch Computer UTC-520D with Intel® Celeron J1900 UTC-520E with Intel® Core™ i5-4300U UTC-520F with Intel® Core™ i5-6300U



DeviceOn/iService

### Features

- Low power and fanless system design
- Built-in Intel® Celeron J1900 (UTC-520D)
- Built-in Intel® Core™ i5-4300U (UTC-520E)
- Built-in Intel® Core™ i5-6300U (UTC-520F)
- 21.5" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- All in one aluminum extrusion design
- Supports both landscape and portrait screen orientations
- VESA 100 mm standard mounting holes for varied mounting demands
- Side groove design for flexible peripheral installation
- White RAL9016 Available
- Support DeviceOn/iService software for remote device management



### Introduction

UTC-520 features an all-in-one computing system 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. The systems deliver updated information with well-designed interactive interfaces, fully ensure relevant content and targeted promotions are delivered. UTC series touch panel computers are the best investments to enhance user satisfaction, further brand equity, and maximize business profits. Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform.

Moreover, Advantech DeviceOn/iService Software is a next-generation unified device management 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-520D	UTC-520E	UTC-520F	
Processor System	CPU	Intel® Celeron® J1900 (UTC-520D)	Intel® Core™ i5-4300U (UTC-520E) Intel® Core™ i3-4010U (Available)* Intel® Celeron® 2980U (Available)*	Intel® Core™ i5-6300U (UTC-520F) Intel® Core™ i3-6100U (Available)* Intel® Core™ i7-6600U (Available)*
	Base Frequency	2 GHz (Quad-Core)	1.9 GHz (i5-4300U/Dual-Core)	3.0 GHz (i5-6300U/Dual-Core)
	Cache	L2 Cache 2MB	L3 Cache 3MB	L3 Cache 3MB
	Memory	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x 204 pin SO-DIMM DDR3L 1333 / 1600 MHz up to 8 GB	2 x 204 pin SO-DIMM DDR3L 1600MHz up to 16 GB
	HDD	1 x 2.5 internal SATA HDD bay		
	Network (LAN)	2 x Gigabit Ethernet ports (Supports Wake on LAN)		
	I/O ports	2 x RS-232 COM (RS-422/485)* 3 x USB 2.0 / 1 x USB 3.0	2 x RS-232 COM (RS-422/485)* 2 x USB 2.0 / 2 x USB 3.0	2 x RS-232 COM (RS-422/485)* 2 x USB2.0 / 2 x USB3.0
		2 x Gigabit Ethernet (RJ-45) 1 x VGA & HDMI Audio Line-out x 1, Mic-in x 1	2 x Gigabit Ethernet (RJ-45) 1 x VGA & HDMI Audio Line-out x 1, Mic-in x 1	2 x Gigabit Ethernet (RJ-45) 1 x VGA & 1 x HDMI Audio Line-out x 1, Mic-in x 1
		Stereo Speaker	3 W x 2	
	Bus expansion	Full-size MiniPCIe / mSATA		
	Mounting	VESA 100 x 100 mm		
Dimensions (W x H x D)	517.64 x 313.51 x 43.50 (mm)			
Weight	8 kg (17.6 lb)			
OS Support	Win 10 IoT Enterprise Android 6.0 Linux Ubuntu 14.04	Win 10 IoT Enterprise	Win 10 IoT Enterprise Linux Ubuntu 20.04	
	Operating Temperature	0 ~ 40° C (32 ~ 104° F)		
Environmental Specifications	Relative Humidity	10 ~ 95% @ 40° C non-condensing		
	Vibration	0.5G		
	Shock	5G peak acceleration (11 msec. duration)		
	EMC/ Safety	CE (No RED certification) (EN 61000-6-2: 2005 / AC: 2005), FCC, CB, UL, CCC, BSMI		CE (RED Compliance) (EN 61000-6-2: 2005 / AC: 2005), FCC, CB, UL, CCC, BSMI
Power Supply	Front Panel Protection	IP65/ NEMA4 Compliant		
	Input Rating	12 V/7 A (84 W ITE Adapter)		
	Power consumption	Typical 45W Max. 65W		
LCD Display	Size/Type	21.5" TFT LCD with LED backlight		
	Max. Resolution	1920 x 1080		
	Max. Color	16.7M		
	Pixel Pitch (um)	248.25 (H) x 248.25 (V)		
	Brightness (cd/m²)	250 (Optional 400)		
Touch Screen Option (PE/RE/GE)	View Angle	178°/178°		
	Type	Projected Capacitive. Analog Resistive 5-wires		
	Light Transmission	90% ± 2% / 80% ± 5% / 90%		
Controller	USB Interface / USB Interface / -			

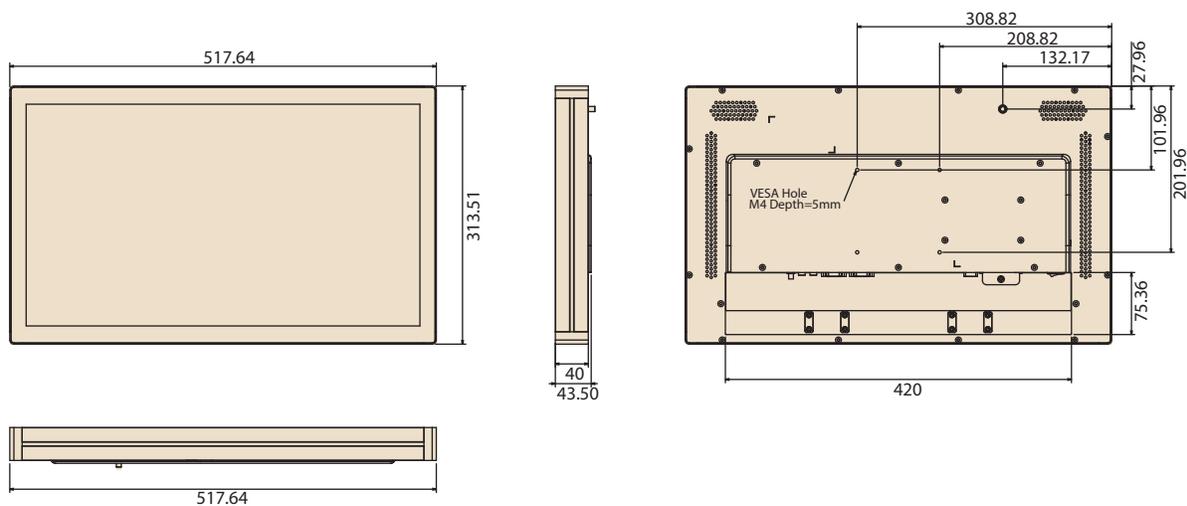
## Specifications (Cont.)

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>

## Dimensions

Unit: mm



## Ordering Information

Part No.	Description
UTC-520D-PE	21.5" 9H PCT.T/S with Intel® Bay trail J1900, 4GB RAM, IT Adapter
UTC-520DP-ATB0E	21.5" 7H PCT.T/S with Intel® Bay trail J1900, 4GB RAM, IT Adapter
UTC-520D-RE	21.5" Resi. T/S with Intel® Bay trail J1900, 4GB RAM, IT Adapter
UTC-520E-PE	21.5" 9H PCT.T/S with Intel® Core™ i5 4300U, 4GB RAM, IT Adapter
UTC-520EP-ATB0E	21.5" 7H PCT.T/S with Intel® Core™ i5 4300U, 4GB RAM, IT Adapter
UTC-520E-RE	21.5" Resi. T/S with Intel® Core™ i5 4300U, 4GB RAM, IT Adapter
UTC-520F-PE	21.5" 9H PCT.T/S with Intel® Core™ i5 6300U, 4GB RAM, IT Adapter
UTC-520FP-ATB0E	21.5" 7H PCT.T/S with Intel® Core™ i5 6300U, 4GB RAM, IT Adapter
UTC-520FR-ATB0E	21.5" Resi.T/S with Intel® Core™ i5 6300U, 4GB RAM, IT Adapter
1702002605	Power cord 2P FRANCE 10A/16A 220V 1.83M 90D
1702002600	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
1700000596	Power Cord (China) CCC,10A 250V, 3P 1830mm
1700018704	Power Cord UK BSI 2P 10A 250V 180cm 18AWG
1960069544N001	IO Cover for UTC-520 series

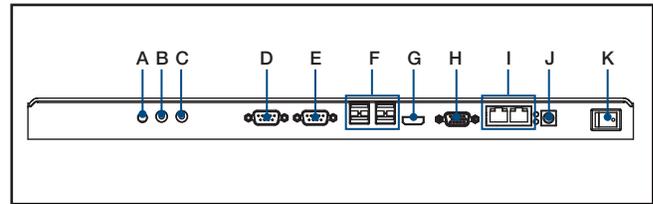
## Peripherals for UTC-500 series

Part No.	Description
UTC-P01-A1E	5M Camera Module For UTC-5XX (USB connection)
UTC-P02-A0E	Magnet Strip Reader For UTC-5XX (USB connection)
UTC-P03-A0E	RFID Reader For UTC-5XX (USB connection)
UTC-P06-A0E	Smart Card Reader For UTC-5XX (USB connection)
UTC-P07-A4E	2D Barcode Module (Honeywell) for UTC-500 Series (USB connection)
UTC-P09-A0E	Fingerprint reader for UTC-5xx (USB connection)
UTC-P21-A0E	4 in 1 Modules Barcode reader + RFID + Card reader + MSR

## Installation Accessory

Part No.	Description
96PD-00824	UTK-700 Desktop Stand (w/o Printer)
96PD-00825	UTK-700 Extension Tower (For 96PD-00824 only)
UTC-520-STAND1E	Desktop stand for UTC-515/520
ASK-TBSD-BS1702A01	Desk Stand for 100 X 100 / 75 X 75 mm
UTC-T01-STANDE	Triangle shape floor stand
UTC-H01-STANDE	H-shaped floor stand
ASK-MNT-NMBLA37G00	Wall Mount kit for UTC-515/520
ASK-MNT-NMBLA10AC0	Wall Mount kit for UTC-515/520

## Fully- Integrated I/O



- A. Antenna Port
- B. Line-out
- C. Mic-in
- D. COM2
- E. COM1
- F. USB 3.0 x 2, USB 2.0 x 2  
USB 3.0 x 1, USB 2.0 x 3 (UTC-520D)
- G. HDMI
- H. VGA
- I. LAN Ports x 2
- J. DC Input
- K. Power switch

# 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

