UTC-520

21.5" Ubiquitous Touch Computer UTC-520I with 11th Gen Intel Core i7/i5/i3 Processor



Low-power, fanless system design

Features

- Built-in Intel® Core™ i5-1145G7E (UTC-520I)
- 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 integrating peripherals
- Optional 400-nit LCD panel
- Support DeviceOn/iService software for remote device management
- i3 and i7 sku are available for I platform
- I platform supports TPM 2.0

Introduction

UTC-520 is an all-in-one computer with an Intel[®] Core[™] i5-1145G7E processor, widescreen LCD touch panel, and side grove design for integrating optional peripherals. Designed for diverse self-service, content broadcasting, and interactive signage applications, UTC-520 systems can be deployed in a wide range of usage scenarios for enhancing enhance customer satisfaction, furthering brand equity, and maximizing business profits. Advantech's DeviceOn/iServiceis a next-generation unified device management solution based on the WISE-DeviceOnplatform. Moreover, Advantech DeviceOn/iService Software 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

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Specifications

Model		UTC-520I
	CPU	i5-1145G7E (Default) Intel® Core™ i3-1115G4E Intel® Core™ i7-1185G7E
	Base Frequency	1.50/ 2.6 GHz/ Quad Core
	Cache	L3 Cache 8MB
	Memory	2 x 260 pin SO-DIMM DDR4-3200 up to 64GB
	HDD	1 x 2.5 internal SATA HDD bay
	Network (LAN)	2 x GbE, LAN1: Intel i219LM, LAN2: Intel i210AT/IT (supports Wake on LAN)
System	1/0	2 x GbE, LAN1: Intel i219LM, LAN2: Intel i210AT/IT 1 x HDMI / 1 x DP 1 x Audio Line-out 1 x Mic-in 4 x USB3.2 Gen. 2x1 10Gbps 1 x USB type-C, USB3.2 Gen. 2x2 20Gbps, support DP1.4a via Alt. Mode 2 x RS-232 COM (RS-422/485)*
	Stereo Speaker	2 x 3W
	Expansion	1 x M.2 E-Key 2230 (PCle x 1, USB2.0, I2C) 1 x M.2 B-Key 3042 (USB2.0) w/ Nano-SIM 1 x M.2 M-Key 2280 (PCle x4 Gen.4 for PCle SSD), optional SATA
	Mount Options	VESA 100 x 100 mm
Mechanical	Dimensions (W x H x D)	517.6 x 313.51 x 43.5 mm
	Weight	8 kg (17.6 lb)
Board Features	Watchdog Timer TPM	65536 intervals, 0 ~ 65535 sec TPM2.0 (SLB9670XQ2.0)
Operating System		Win 10 IoT Enterprise, Win 11 IoT Enterprise, Android 14, Ubuntu 22.04
	Operating Temperature	0 ~ 40 °C/32 ~ 104 ° F
	Relative Humidity	95% @ 40 °C/104 °F, non-condensing
	Shock	Operating 10G peak acceleration (11ms duration), follow IEC 60068-2-27
Environmental	Vibration	Operating Random Vibration Test 5 ~ 500Hz, 1Grms @with HDD; 2Grms @with SSD, follow IEC 60069-2-64
	EMC/Safety	CE (RED Compliance), EN 61000-6-2: 2005 /AC: 2005, FCC, UL, CB, CCC, BSMI
	Front Panel Protection	IP65 rated/NEMA4 compliant

AD\ANTECH Interactive Self-service Terminals

All product specifications are subject to change without notice, * identify as optional function

Specifications (Cont.)

	Input Voltage	12V _{DC}
	Adapter	12V, 7 A (84W ITE adapter)
Power Supply	Power Consumption	Typical 40W Max 50W
	Size/Type	21.5" TFT LCD with LED backlight
	Max.Resolution	1920 x 1080
	Max. Color	16.7M
LCD Display	Pixel Pitch (H x V)	248.25 x 248.25
	Brightness	250 nits (400 nits optional)
	Viewing Angle	178°/178°
	Туре	Projected capacitive, Single point Analog Resistive 5-wires touch
Touchscreen (PE/RE)	Light Transmission	88% ± 2%, 80% ± 3%
	Controller	USB interface
	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	\checkmark
	Remote desktop	✓ (VNC)
	Audio Controls	\checkmark^{\star}
	Connection Status	\checkmark
DeviceOn/iService	Hardware Status	\checkmark^{\star}
Remote Device	Hard Disk Status	\checkmark^{\star}
Management	Batch Operation Support	\checkmark
	OTA Storage Management	FTP
	OTA Software Updates	\checkmark
	Software Watchlist	\checkmark
	Software Start/Stop	\checkmark^{\star}
*Dependant on device model	Peripherals Watchlist	\checkmark^{\star}

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



Ordering Information

Part Number	Description
UTC-520I-PE	21.5" 9H PCT.T/S with Intel® Core™ i5-1145G7E, IT Adapter
UTC-520IP-ATB0E	21.5" 7H PCT.T/S with Intel® Core™ i5-1145G7E, 8GB RAM, IT Adapter
UTC-520IR-ATB0E	21.5" Resi. T/S with Intel [®] Core™ i5-1145G7E, 8GB RAM, IT Adapter
1702002600	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
1702002605	Power Cord 2P FRANCE 10A/16A 220V 1.83M 90D
1700000596	Power cable, CCC, 3P, 10A, 250V, 183 cm (China)
1700018704	Power cable, BSI, 2P, 10A, 250V, 180 cm (UK)
1960069544N001	I/O cover for UTC-520 series

Peripherals for UTC-500 Series

Part Number	Description
UTC-P01-A1E	5MP camera module (via USB)
UTC-P03-A1E	RFID/NFC reader (via USB)
UTC-P06-A2E	Smart card reader (via USB)
UTC-P07-A4E	2D barcode module (Honeywell) (via USB)

Optional Accessories

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
UTC-T01-STANDE	Triangle shape floor stand
UTC-H01-STANDE	H-shaped floor stand
ARES-2424X-S170201	Table Stand,100x100/75x75
ARES-12250-L101000	Wall Mount, 75/100mm

Fully Integrated I/O



A. Antenna Port	
B. Line-out	
C. Mic-in	
D. COM2	
E. COM1	
F. USB 3.2 x 4	

G. HDMI H. DP I. USB type c J. LAN Ports x 2 K. DC input L. Power Switch

UTC-520 WiFi Ordering Information

Part No.	Description
UTC-WIFI-A5E	AIW-163BR 802.11ax with BT5.2, PCIe-USB, Realtek 8852BE, M.2 2230

DeviceOn/iService

Unified Remote Device Management Software

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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

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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

Open for Expansion

Peripheral integration

Open APIs for integration

Software monitoring & access

Screens, USB devices, printers

Remote Access

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Real-Time MonitoringConnection/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

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ΟΤΑ

Time-saving tasks

1-to-many batch reboot, etc.

Setup Booster

- Software/peripheral watchlist
 - Roles, rule templates

Note: Some functions may vary according to the product

System Architecture

