

UTC-520

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



DeviceOn/iService



Features

- Low-power, fanless system design
- 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 groove 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 customer satisfaction, furthering brand equity, and maximizing 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 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-520I		
System	CPU	i5-1145G7E (Default) Intel® Core™ i3-1115G4E Intel® Core™ i7-1185GRE	
	Base Frequency	1.50/ 2.6 GHz/ Quad Core	
	Cache	L3 Cache 8MB	
	Memory	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)	
	I/O		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
		Stereo Speaker	2 x 3W
	Expansion		1 x M.2 E-Key 2230 (PCIe x1, USB2.0, I2C) 1 x M.2 B-Key 3042 (USB2.0) w/ Nano-SIM 1 x M.2 M-Key 2280 (PCIe x4 Gen.4 for PCIe SSD), optional SATA
Mechanical	Mount Options	VESA 100 x 100 mm	
	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	65536 intervals, 0 ~ 65535 sec	
	TPM	TPM2.0 (SLB9670XQ2.0)	
Operating System	Windows 10 IoT Enterprise		
Environmental	Operating Temperature	0 ~ 40 °C/32 ~ 104 °F	
	Relative Humidity	10 ~ 95% @ 40 °C/104 °F, non-condensing	
	Shock	Operating 10G peak acceleration (11ms duration), follow IEC 60068-2-27	
	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	
Power Supply	Front Panel Protection	IP65 rated/NEMA4 compliant	
	Input Voltage	12~24V _{DC}	
	Adapter	12V, 7 A (84W ITE adapter)	
	Power Consumption	Typical 40W Max 50W	
LCD Display	Size/Type	21.5" TFT LCD with LED backlight	
	Max.Resolution	1920 x 1080	
	Max. Color	16.7M	
	Pixel Pitch (H x V)	248.25 x 248.25	
	Brightness	250 nits (400 nits optional)	
	Viewing Angle	178°/178°	
Touchscreen (PE/RE)	Type	Projected capacitive, Single point Analog Resistive 5-wires touch	
	Light Transmission	88% ± 2%, 80% ± 3%	
	Controller	USB interface	

Vertrieb durch



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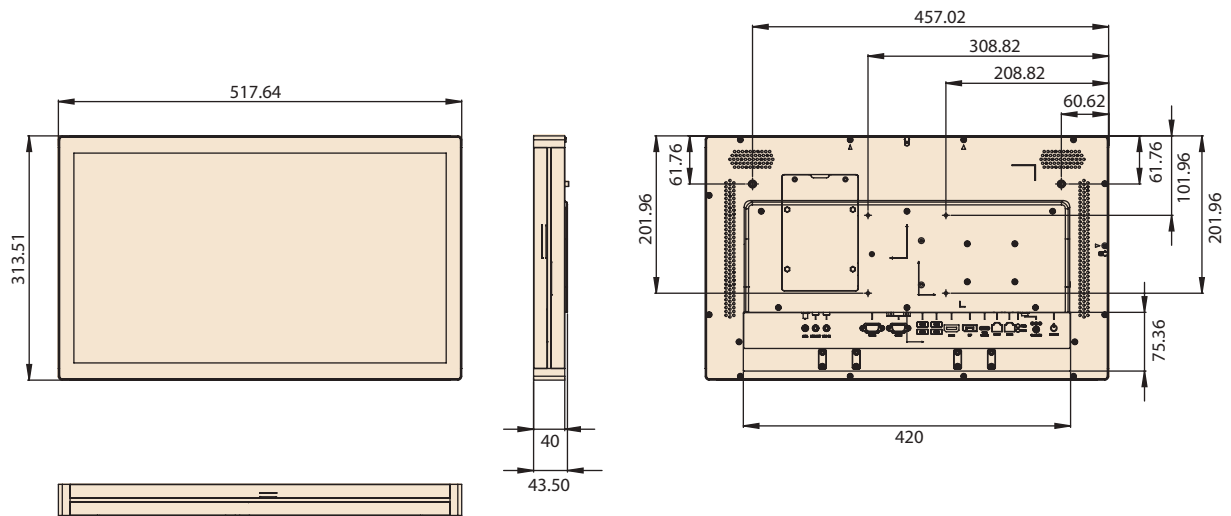
Specifications (Cont.)

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 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-P02-A0E	Magnet strip reader (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)
UTC-P09-A0E	Fingerprint reader (via USB)
UTC-P21-A3E	2D Barcode reader + RFID + SCR

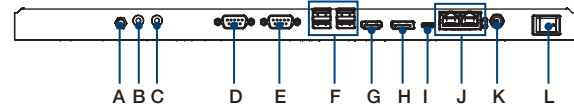
Optional Accessories

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

UTC-520 WiFi Ordering Information

Part No.	Description
UTC-WIFI-A4E	EWM-W163M201E 802.11ac/a/b/g/n 2T2R WIFI with BT 4.1 QCA6174A, M.2 2230
UTC-WIFI-A5E	AIW-163BR 802.11ax with BT5.2, PCIe-USB, Realtek 8852BE, M.2 2230

Fully Integrated I/O



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|-----------------|------------------|
| A. Antenna Port | G. HDMI |
| B. Line-out | H. DP |
| C. Mic-in | I. USB type c |
| D. COM2 | J. LAN Ports x 2 |
| E. COM1 | K. DC input |
| F. USB 3.2 x 4 | L. Power Switch |