

UTC-520

21.5" Ubiquitous Touch Computer with Intel® Core™ i Processor

NEW



DeviceOn/iService



Features

- Low-power, fanless system design
- Intel® Core™ i5-8365UE processor
- 21.5" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- All-in-one aluminum extrusion design
- Supports landscape and portrait screen orientations
- VESA (100 x 100) mount holes
- Side groove design for integrating peripherals
- Single-chip watchdog timer with 255 intervals
- Optional custom anti-glare surface
- Optional 400-nit LCD panel
- Equipped with DeviceOn/iServices software for remote device management

Introduction

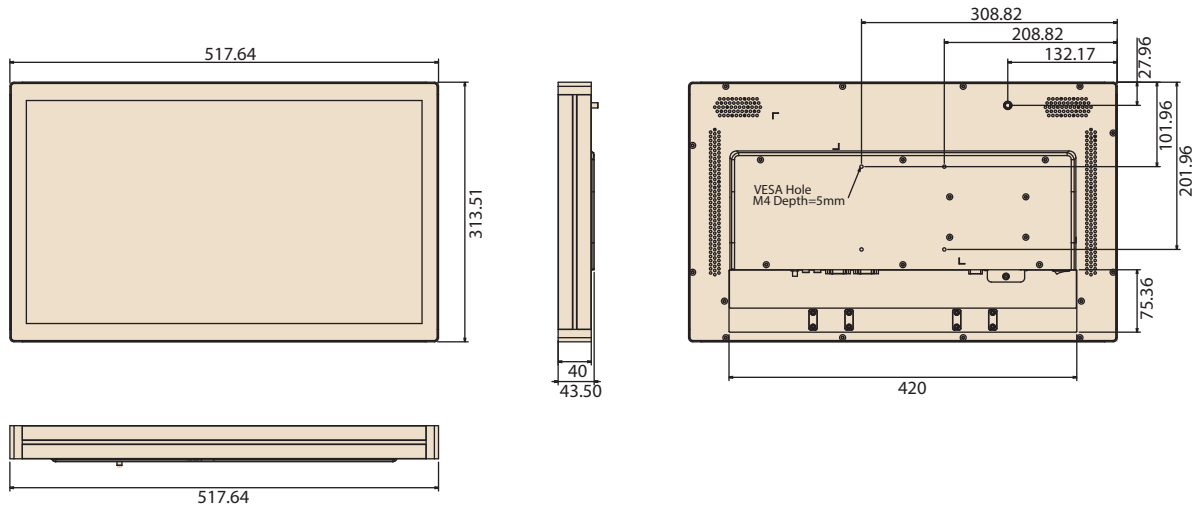
UTC-520 is an all-in-one computer with an Intel® Core™ i5-8365UE processor, widescreen LCD touch panel, and side groove design for integrating optional peripherals. Designed for diverse self-service, content broadcasting, and interactive signage applications, UTC-520 systems can be deployed in a wide 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.

Specifications

System	CPU	Intel Core i3-8145UE (Available) Intel Core i7-8665UE (Available)
	Base Frequency	1.60 GHz (quad-core)
	LLC	6MB
	Memory	Dual channel/dual socket DDR4 2400 Mhz, up to 32GB
	HDD	1 x 2.5" internal SATA HDD bay
	Network (LAN)	2 x Gigabit Ethernet (supports Wake-on-LAN)
	I/O	2 x RS-232 COM (RS-422/485 optional)
		4 x USB 3.1
		2 x Gigabit Ethernet (RJ-45)
		1 x HDMI
Stereo Speaker	1 x Audio Line-out	
	1 x Mic-in	
Expansion	2 x 3W	
	1 x M.2 E-key 2230	
	1 x M.2 B-key 2280 (NVMe PCIe x2), 3042 LTE module (supports USB 2.0 only) (optional M-key 2280 NVMe PCIe x4)	
Mechanical	Mount Options	VESA (100 x 100)
	Dimensions (W x H x D)	517.64 x 313.51 x 43.5 mm/20.37 x 12.34 x 1.71 in
	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 Linux Ubuntu 18.04
	Environmental	Operating Temperature
Relative Humidity		10 ~ 95% @ 40 °C/104 °F, non-condensing
Vibration		0.5G
Shock		5G peak acceleration (11 msec)
EMC/Safety		CE (No RED certification), FCC, UL, CB, CCC, BSMI
Front Panel Protection		IP65 rated/NEMA4 compliant
Power Supply	Input Rating	12~24V, 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 µm
	Brightness	250 cd/m ² (400 cd/m ² optional)
Touchscreen (PE/RE/GE)	Viewing Angle	178°/178°
	Type	Projected capacitive (PCAP) touch, anti-glare surface coating available upon request
	Light Transmission	88% ± 2%
	Controller	USB interface

Dimensions

Unit: mm



Ordering Information

Part Number	Description
UTC-520HP-ATB0E	21.5" fanless UTC with Intel® Core™ i5-8365U processor, 4GB RAM, and PCAP control and 7H touchscreen
UTC-520H-PE	21.5" fanless UTC with Intel® Core™ i5-8365U processor, 4GB RAM, and PCAP control and 9H touchscreen
UTC-520HR-ATB0E	21.5" fanless UTC with Intel® Core™ i5-8365U processor, 4GB RAM, and resistive control touchscreen
1702002600	Power cable, UL/CSA, 3P, 10A, 125V, 183 cm (USA)
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

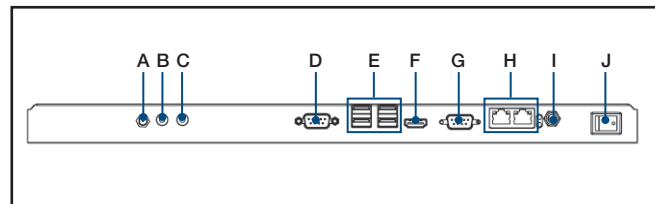
Peripherals for UTC-500 Series

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-A2E	4-in-1 barcode + RFID + MSR + card reader module

Optional Accessories

Part Number	Description
UTK-500F-A0E	Floor stand with SNBC BTP-U81 thermal printer (for China only)
UTK-500S-A0E	Floor stand without thermal printer
UTK-500G-A0E	Floor stand with thermal printer bracket
UTC-520-STAND1E	Desktop stand for UTC-500 series
UTC-H01-STANDE	H-shaped floor stand
UTC-S01-STAND	Desk stand (100 x 100/75 x 75)
UTC-T01-STANDE	Triangular floor stand
UTC-WALL-MOUNT1E	Wall mount kit for UTC-500 series
UTC-WALL-MOUNT3E	Wall mount kit for UTC-500 series

I/O Layout



- A. Antenna port
- B. Line-out
- C. Mic-in
- D. COM2
- E. COM1
- F. HDMI
- G. COM1
- H. 2 x LAN
- I. DC-in
- J. Power switch

Side groove for integrating peripherals

