

# UTC-520

## 21.5" Ubiquitous Touch Computer UTC-520G with Intel® Pentium® N4200 UTC-520F with Intel® Core™ i5-6300U UTC-520E with Intel® Core™ i5-4300U



DeviceOn/iService

### 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.

### Specifications

	Intel® Pentium® N4200 (UTC-520G)	Intel® Core™ i5-6300U (UTC-520F)	Intel® Core™ i5-4300U (UTC-520E)	
Processor System	CPU	Intel® Pentium® N4200 (UTC-520G)	Intel® Core™ i5-6300U (UTC-520F) Intel Core i3-6100U (Available) Intel Core i7-6600U (Available)	Intel® Core™ i5-4300U (UTC-520E) Intel® Core™ i3-4010U (Available)* Intel® Celeron™ 2980U (Available)*
	Base Frequency	1.1 GHz (N4200/Quad-Core)	3.0 GHz (i5-6300U/Dual-Core)	1.9 GHz (i5-4300U/Dual-Core)
	Cache	L2 Cache 2MB	L3 Cache 3MB	L3 Cache 3MB
	Memory	1 x 204 pin SO-DIMM DDR3L 1867 MHz up to 8GB	2 x 204 pin SO DIMM DDR3L 1600MHz up to 16 GB	1 x 204 pin SO-DIMM DDR3L 1333 / 1600 MHz up to 8 GB
	HDD	1 x 2.5 internal SATA HDD bay		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)* 2 x USB2.0 / 2 x USB3.0		2 x RS-232 COM (RS-422/485)* 2 x USB 2.0 / 2 x USB 3.0
		2 x Gigabit Ethernet (RJ-45) 1 x VGA & 1 x 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
		Stereo Speaker 3 W x 2		
	Bus expansion	Full-size MiniPCIe / M.2	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 10 Linux Ubuntu 18.04	Windows Pro Embedded 7 SP1 64bit Win 10 IoT Enterprise Linux Ubuntu 16.04	Windows Pro Embedded 7 SP1 64bit Win 10 IoT Enterprise Linux Ubuntu 16.04	
	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 (RED Compliance) (EN 61000-6-2: 2005 / AC: 2005), FCC, UL, CB, CCC, BSMI	CE (RED Compliance) (EN 61000-6-2: 2005 / AC: 2005), FCC, CB, UL, CCC, BSMI	CE (No RED certification) (EN 61000- 6-2: 2005 / AC: 2005), FCC, CB, UL, CCC, BSMI
	Front Panel Protection	IP65/ NEMA4 Compliant		
Power Supply	Input Rating	12 V/5 A (60 W ITE Adapter)	12 V/7 A (84 W ITE Adapter)	
	Power consumption	Typical 40W Max. 50W	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/m <sup>2</sup> )	250 (Optional 400)		
View Angle	178°/178°			
Touch Screen Option (PE/RE/GE)	Type	Projected Capacitive. Analog Resistive 5-wires / Glass Panel		
	Light Transmission	90% ± 2% / 80% ± 5% / 90%		
	Controller	USB Interface / USB Interface / -		

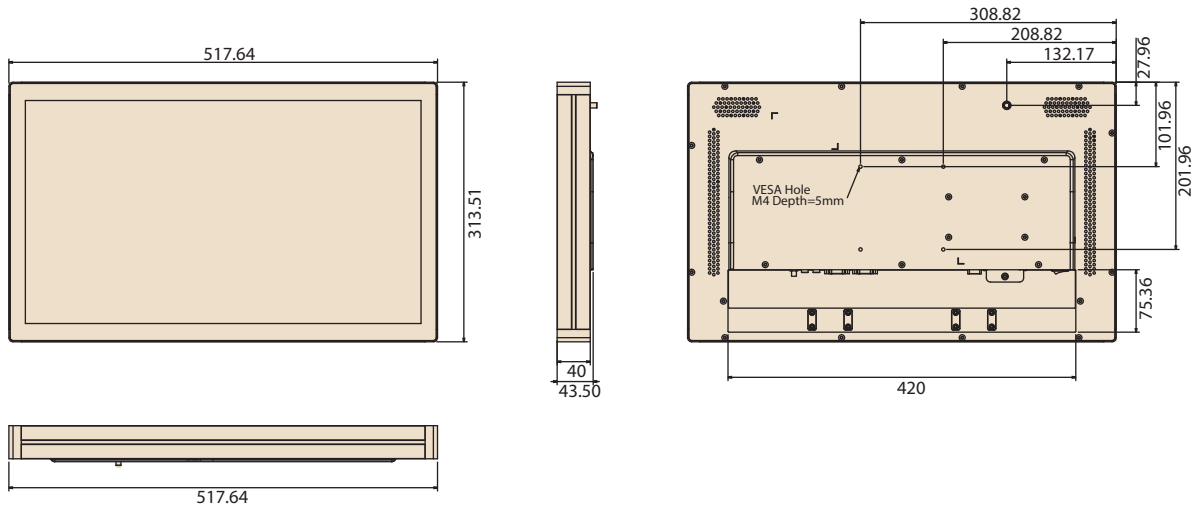
### Features

- Low power and fanless system design
- Built-in Intel® Pentium® N4200 (UTC-520G)
- Built-in Intel® Core™ i5-6300U (UTC-520F)
- Built-in Intel® Core™ i5-4300U (UTC-520E)
- 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
- Equipped with DeviceOn/iService software for remote device management



## Dimensions

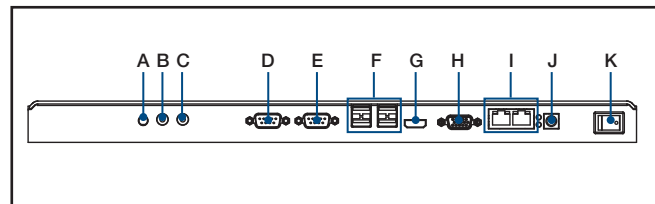
Unit: mm



## Ordering Information

Part No.	Description
UTC-520GP-ATBOE	21.5" Intel® Pentium® N4200 Based fanless UTC with PCT.T/S. 4 GB RAM
UTC-520GP-ATW0E	21.5" PCT.T/S w Pentium N4200, 4GB RAM,RAL 9016
UTC-520GR-ATBOE	21.5" Intel® Pentium® N4200 Based fanless UTC with Resi.T/S. 4 GB RAM
UTC-520GG-ATBOE	21.5" Intel® Pentium® N4200 Based fanless UTC with Glass. 4 GB RAM
UTC-520FR-ATBOE	21.5" Intel® Core™ i5-6300U Based fanless UTC with Resi.T/S. 4 GB RAM
UTC-520F-PE	21.5" Intel® Core™ i5-6300U Based fanless UTC with PCT.T/S. 4 GB RAM
UTC-520E-RE	21.5" Intel® Core™ i5-4300U Based fanless UTC with Resi.T/S. 4 GB RAM
UTC-520E-PE	21.5" Intel® Core™ i5-4300U Based fanless UTC with PCT.T/S. 4 GB RAM
UTC-520E-GE	21.5" Intel® Core™ i5-4300U Based fanless UTC with Glass. 4 GB RAM
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

## 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 for UTC-520D)
- G. HDMI
- H. VGA
- I. LAN Ports x 2
- J. DC Input
- K. Power switch

Side groove design for Flexible peripheral device



## 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
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-515/520
UTC-H01-STANDE	H-shaped floor stand
ASK-TBSD-BS1702A01	Desk Stand for 100 X 100 / 75 X 75 mm
UTC-T01-STANDE	Triangle shape floor stand
UTC-WALL-MOUNT1E	Wall Mount kit for UTC-515/520
UTC-WALL-MOUNT3E	Wall Mount kit for UTC-515/520