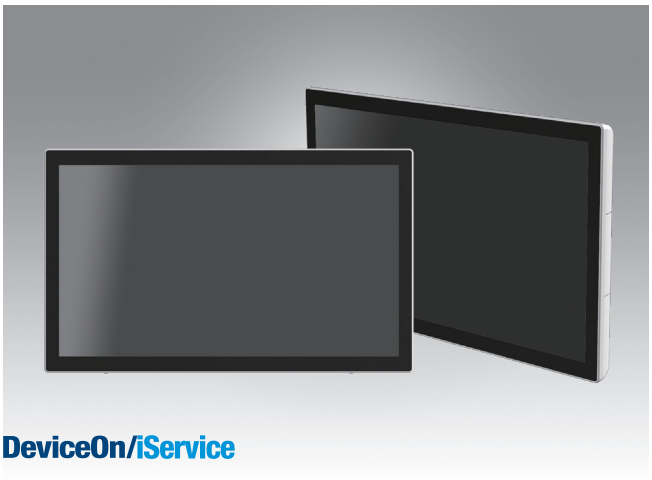
UTC-320

21.5" Ubiquitous Touch Computer

UTC-320H with 8th Gen Intel® Core™ i7/i5/i3 Processor
UTC-320I with 11th Gen Intel® Core™ i7/i5/i3 and Celeron 6305E Processor



Features

- Low power and fanless system design
- Built in Intel® Core™ i5-8365UE (UTC-320H) and Intel® Core™ i5-1145G7E (UTC-320I)
- 21.5" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- Supports both landscape and portrait screen orientations
- VESA 100 mm standard mounting holes for varied mounting demands
- Detachable frame design for panel mount applications
- Support DeviceOn/iService software for remote device management
- Support TPM 2.0

Introduction

UTC-320 is the multi-purpose all-in-one computing system which 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. With the removable frame , the system also could fulfill industries or control system applications with panel mounting design. UTC series touch panel computers are the best investments to enhance user satisfaction, further brand equity, and maximize business profits.

Moreover, UTC-320 is equipped with Advantech's DeviceOn/iService software, which 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-320H	UTC-320I
Processor System	CPU	Intel Core i7-8665UE Intel Core i5-8365UE (Default) Intel Core i3-8145UE	Intel Core i7-1185G7E Intel Core i5-1145G7E (Default) Intel Core i3-1115G4E Intel Celeron 6305E
	Basic Frequency	i7: 1.70 GHz (Quad-Cores) i5: 1.60 GHz (Quad-Cores) i3: 2.20 GHz (Dual-Cores)	i7: 1.80 GHz (Quad-Cores) i5: 1.50 GHz (Quad-Cores) i3: 2.20 GHz (Dual-Cores) Celeron 6305E: 1.8GHZ (Dual-Core)
	Smart Cache	i7: 8 MB i5: 6 MB i3: 4 MB	i7: 12 MB i5: 8 MB i3: 6 MB Celeron 6305E: 4MB
	Memory	1X 260pin SO-DIMM DDR4 2400 MHZ up to 32GB	1 x 260pin SO-DIMM DDR4 3200 MHZ up to 32GB
	HDD	1 x 2.5 internal SATA HDD bay	
	Network	2 x Gigabit Ethernet ports (RJ-45)	
	I/O ports	1 x RS-232 1 x RS-232/485 6 x USB 3.1 2 x Gigabit Ethernet (RJ-45) 1 x HDMI 1 x DP Audio Line-out x 1, Mic-in x 1	1 x RS-232 1 x RS-232/485 2 x USB 2.0 / 4 x USB 3.2 2 x Gigabit Ethernet (RJ-45) 1 x HDMI Audio Line-out x 1, Mic-in x 1
	Stereo Speaker	2W x 2	
	BUS expansion	1x M.2 2280/2242 M-Key for NVMe/SATA SSD 1x M.2 2230 E-Key	
	Mounting	VESA 100 x 100; Screw Size: M4, 10mm	
	Dimension (W x H x D)	520.2 x 316.1 x 45.9 mm	
	Weight	6.5 Kg	
Security	TPM2.0	Support	
OS support		Win 10 IoT Enterprise 64bit Linux	Win 10 IoT Enterprise 64bit Win 11 IoT Enterprise 64bit Linux

Vertrieb durch AMC
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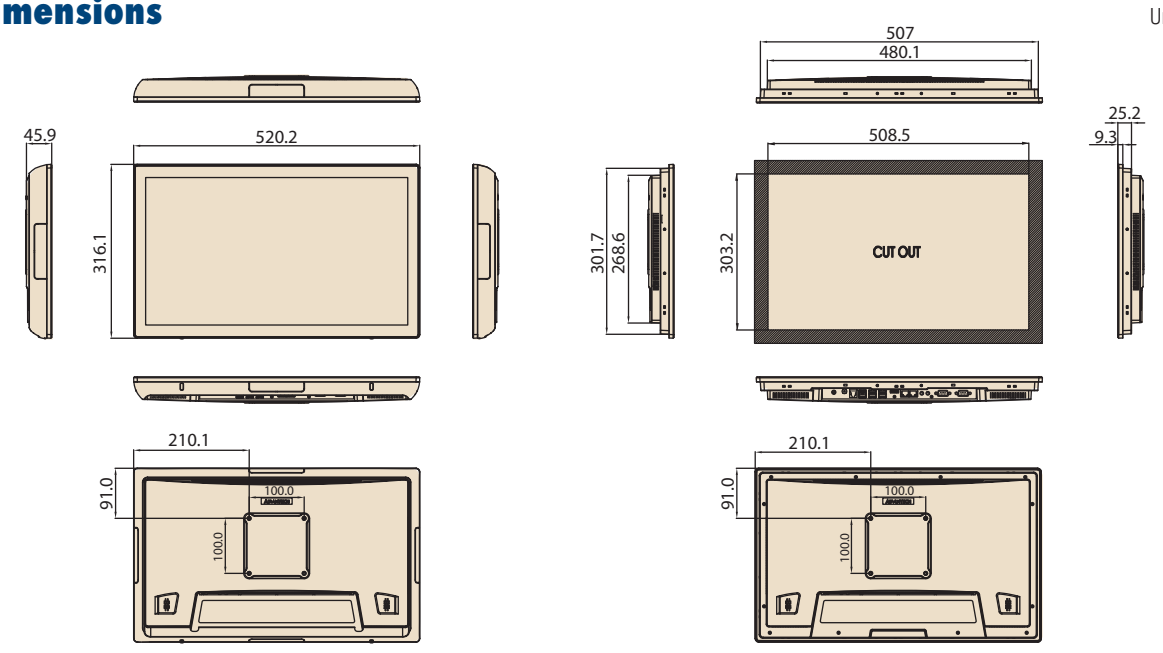
Specifications (Cont.)

Environmental Specifications	Operating Temperature	0 ~ 40° C (32 ~ 104° F)
	Relative Humidity	10 ~ 95% @ 40° C non-condensing
	Vibration	0.5G
	Shock	10 G peak acceleration (11 msec. duration)
	EMC/ Safety	CE. FCC, UL, CCC, CB, BSMI, UKCA
	Front Panel Protection	IP65/ NEMA4 Compliant
Power Supply	Input Voltage	12-30V_{DC}
	Power Consumption	Typical 45W, Max. 80W
	Adapter	12V ⎓ 7A, 84W or 12V ⎓ 8A, 96W ITE adapter (dependent on stock)
LCD Display	Size	21.5" TFT LCD
	Max Resolution	1920 x 1080
	Max Color	16.7M
	Pixel Pitch (um)	248.25 (H) x 248.25 (V)
	Brightness (cd/m^2)	250 (Typical)
	View Angle	178°/178°
Touch Screen	Type	Analog Resistive 5-wires (Res. Flat Glass) / Projected Capacitive Touch Panel (Pcap. Flat Glass) / Glass Panel
	Light Transmission	80% ± 5% / 88% ± 2% / 90%
	Controller	COM interface / USB interface
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

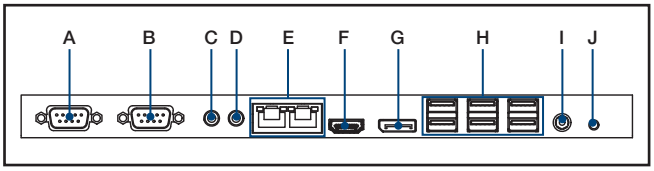
Dimensions

Unit: mm



Fully- Integrated I/O

UTC-320H/I



A. COM1
B. COM2
C. Mic in
D. Line-out
E. LAN ports x 2
F. HDMI
G. DP (UTC-320H)
H. USB 3.1 x 6 (UTC-320H)
USB 2.0 x 2 /USB 3.2 x 4 (UTC-320I)
I. DC input 12-30V
J. Power button

Ordering Information

Part No.	Description
UTC-320HR-ATW0E	21.5" White, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-320HR-ATB0E	21.5" Black, Intel® Core™ i5-8365UE, Res T/S, 8GB RAM, IT Adapter
UTC-320HP-ATW0E	21.5" White, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter
UTC-320HP-ATB0E	21.5" Black, Intel® Core™ i5-8365UE, PCap T/S, 8GB RAM, IT Adapter
UTC-320IR-ATW0E	21.5" White, Intel® Core™ i5-1145G7E, Res T/S 8GB RAM, IT Adapter
UTC-320IR-ATB0E	21.5" Black, Intel® Core™ i5-1145G7E, Res T/S 8GB RAM, IT Adapter
UTC-320IP-ATW0E	21.5" White, Intel® Core™ i5-1145G7E, PCap T/S 8GB RAM, IT Adapter
UTC-320IP-ATB0E	21.5" Black, Intel® Core™ i5-1145G7E, PCap T/S 8GB RAM, IT Adapter

*White Touch Bezel could be customized by customer request with MOQ

UTC-320 WiFi Ordering Information

Part No.	Description
UTC-300P-W15E	M.2 Wifi Module (179), UTC-300 Series

Installation Accessory

Part No.	Description
UTC-300P-D20E	Desk Stand, Single Color-Silver (UTC-318/UTC-320 series)
UTC-T01-STANDE	Triangle shape floor stand (UTC-315/UTC-318/ UTC-320 series)
UTC-H01-STANDE	H-shaped floor stand (UTC-315/UTC-318/UTC-320 series)
UTC-PANEL-MOUNT4E	Panel mount Kit(UTC-320Series)
ARES-12240-AR01100	Wall Mount Kit, support 2~10kg, VESA 75/100mm (Tiltable)
ARES-12250-L101000	Wall Mount Kit, Max. support 25kg, VESA 75/100mm (Fixed)

Peripherals for UTC-300 series

Part No.	Description
UTC-300P-C20E	5M Camera Module, White, for UTC-300 series
UTC-300P-C21E	5M Camera Module, Black, for UTC-300 series
UTC-300P-M20E	Magnet Strip Reader, White, for UTC-300 series
UTC-300P-M21E	Magnet Strip Reader, Black, for UTC-300 series
UTC-300P-R20E	RFID Reader, White, for UTC-300 series
UTC-300P-R21E	RFID Reader, Black, for UTC-300 series
UTC-300P-S20E	Smart Card Reader, White, for UTC-300 series
UTC-300P-S21E	Smart Card Reader, Black, for UTC-300 series
UTC-300P-B60E	2D Barcode Reader, White for UTC-300 series
UTC-300P-B61E	2D Barcode Reader, Black for UTC-300 series

Power Cord Ordering Information

Part NO.	Description
1702002605	Power cord 2P FRANCE 10A/16A 220V 1.83M 90D
1702002600	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
1700000596-11	Power Cord (China) CCC,10A 250V, 3P 1830mm
1700018704	Power Cord UK BSI 2P 10A 250V 180cm 18AWG
1700000237	Power Cord PSE 3P 12A 125V 183cm
1700001714	Power Cord BSMI 3P 7A 125V 183cm

Vertrieb durch AMC
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