UTC-320SL

21.5" Ubiquitous Touch Computer
UTC-320SL with Active Fan Solution (Fan SKU)
UTC-320SL with Passive Fan Solution (Fanless SKU)

Features

- Fan SKU and Fanless SKU system design
- Socket Type CPU with Intel® Core™ 12th/13th/14th Gen processor
- Multiple power input options (Power Din 4 pins/Terminal Block)
- 21.5" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- 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

DeviceOn/iService

Windows Embedded

UL CCC CE FCC

Introduction

UTC-320SL series all-in-one computer features a signature black plastic exterior and a compact system design, including socket type CPUs, multiple cooling solutions (Fan SKU & Fanless SKU), and power connector options. Powered by an Intel® Core™ 12th/13th/14th Gen processor that supports Windows, and Linux OS. 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.

Specifications

Model		UTC-320SL				
Enclosure Color		Black				
Processor System	CPU	i3-14100T	i5-14400T	i5-14500T	i7-14700T	i9-14900T
	Basic Frequency	2.7 GHz+0 GHz (4P+0E Cores)	1.5 GHz+1.1 GHz (6P+4E Cores)	1.7 GHz+1.2 GHz (6P+8E Cores)	1.3 GHz+900 MHz (8P+12E Cores)	1.1 GHz+800 MHz (8P+16E Cores)
	L2 Cache	5MB	9.5MB	11.5MB	28MB	32MB
	TDP	35W (65W CPU is optional)				
	Memory	1x DDR5 262PIN 4800Mhz SO DIMM up to 32GB				
	Network	2 x Gigabit Ethernet ports (RJ-45)				
	I/O ports	2 x COM (RS-232 / 422 / 485) 3 x USB 2.0 / 3 x USB 3.2 2 x Gigabit Ethernet (RJ- 45) 1 x HDMI 1 x Audio Jack 1 x 2pin header (for external power) 1 x Power Din 4 pin ; 1 x Terminal Block 2 pin (optional)				
	Stereo Speaker	2W x 2				
	BUS expansion	1x M.2 2280(SATA or NVMe) M Key for SSD Storage 1x M.2 2230 E Key for WiFi/BT module				
	Mounting	VESA 100 x 100; Screw Size: M4, 10mm				
	Dimension (W x H x D)	536 x 327.5 x 46mm (Fan SKU) / 536 x 327.5 x 61mm (Fanless SKU)				
	Weight	5.8 kg (Fan SKU) / 6.8 kg (Fanless SKU)				
Security	TPM 2.0	Support				
OS support		Win 10 IoT Enterprise 64bit / Win 11 IoT Enterprise 64bit / Linux				
Environmental Specifications	Operating Temperature	0 ~ 40 °C (32 ~ 104°F) for Fan SKU 0 ~ 40 °C (32 ~ 104° F) with 0.7 m/s airflow for Fanless SKU				
	Relative Humidity	10 ~ 95% @ 40° C non-condensing				
	Vibration	0.5G				
	Shock	10 G peak acceleration (11 msec. duration)				
	EMC/ Safety	UL, FCC, CE, BSMI, CCC, CB				
	Front Panel Protection	IP65				

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Specifications (Cont.)

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Power Supply	Input Voltage	12-24 Vdc
	Power Consumption	Typical 80W，Max 150W
	Adapter	24V=7.5A. 180W Adaptor only available for Power Din 4pin I/O port
LCD Display	Size	21.5" TFT LCD
	Max Resolution	1920 x 1080
	Max Color	16.7M
	Pixel Pitch (um)	247.95 (H) x 247.95 (V)
	Brightness (cd/m2)	250 (Typical)
	View Angle	178°/178°
Touch Screen	Type	Projected Capacitive Touch Panel (Pcap. Flat Glass)
	Light Transmission	≥86%
	Controller	USB interface

Dimensions

FAN SKU

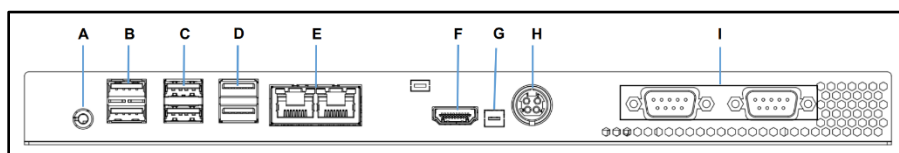Unit: mm
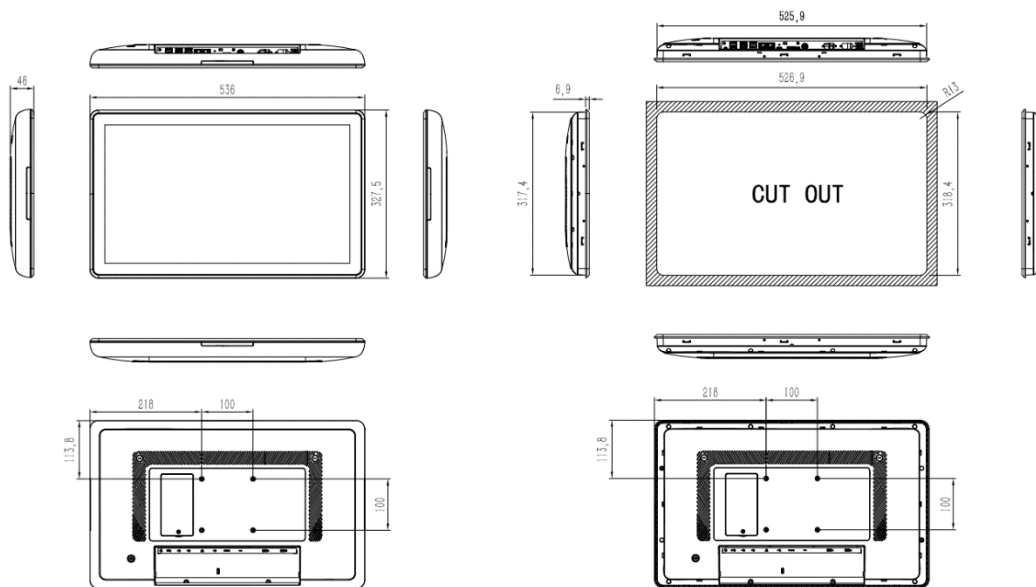
Dimensions

FANLESS SKU

Unit: mm
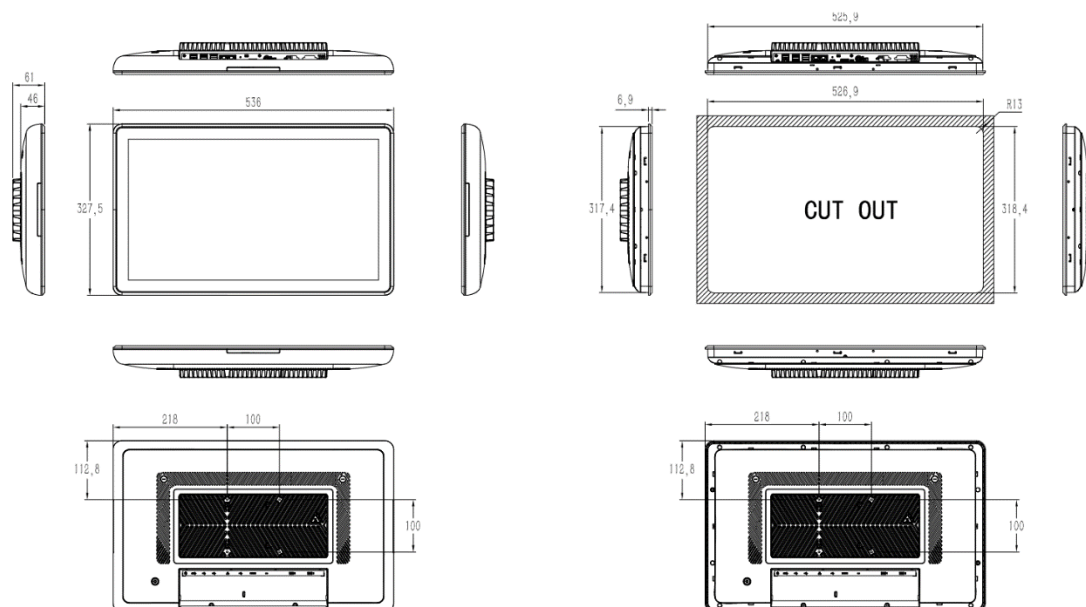
Fully- Integrated I/O

A. Universal Audio Jack x 1
B. USB 2.0 x 2
C. USB 3.2 x 1 + USB 2.0 x 1
D. USB 3.2 x 2

E. LAN ports x 2
F. HDMI x 1
G. 2 Pin Header x 1 (for external power button)
H. DC Input x1

I. COM x 2

Ordering Information

Part No.	Thermal Type	CPU	RAM	Storage	OS	Enclosure Color	WiFi/BT	Adaptor	COO
UTC-320SLP-ATB0E	Fan SKU	i5-14400T	By Request	By Request	By Request	Black	By Request	XUSC365-ADP180WBB	China
UTC-320SLP-PTB0E	Fanless SKU	i5-14400T	By Request	By Request	By Request	Black	By Request	XUSC365-ADP180WBB	China

Packing List

UTC System Unit
180W ITE Power Adaptor
Thermal pad (1pcs for M.2 SSD + 1pcs for Memory)
Screw (1pc for Wifi module, 1pcs for M.2 SSD)

WiFi Ordering Information

Part No.	Description
UTC-300PS-W10E	WiFi Kit (internal ANT) for UTC-300S
UTC-300PS-W20E	WiFi Kit (external ANT) for UTC-300S

Installation Accessory

Part No.	Description
UTC-PANEL-MOUNT7E	Panel mount kit (UTC-300S series)
ARES-12240-AR01100	Wall Mount, support 2~10kg,75/100mm
ARES-12250-L101000	WallMount,max.support 25kg,75/100mm

Peripherals for UTC-300S Series

Part No.	Description
UTC-300PS-S10E	Smart Card Reader, Black, for UTC-300S series
UTC-300PS-C10E	5M Camera Module, Black, for UTC-300S series
UTC-300PS-B10E	2D Barcode Reader, Black, for UTC-300S series
UTC-300PS-R10E	RFID Reader, Black, for UTC-300S series
UTC-300PS-M10E	Magnet Strip Reader, Black, for UTC-300S series

Power Cord for UTC-300S Series

Part No.	Description
96CB-POWER-B-1.8MB	Power cable 3P, CCC, 10A, 250V, 180 cm (China)
1700001524	Power cable 3P, UL, 10A, 125V, 180 cm (US, TW)
170203183C	Power cable 3P, 10A, 250V, 183 cm (EU)
1700018553	Power cable 3P, SAA, 2.5A, 250V, 183 cm (Australia)
1700018409	Power cable, KCC, 2P, 2.5A, 250V, 183 cm (Korea,Russia)
170203180A-01	Power cable, BSI, 3P, 2.5A, 250V, 183 cm (UK)
1700008921	Power cable, PSE, 3P, 7A, 125V, 180 cm (Japan)
1700025113-11	Power cable, ISI, 3P, 2.5A, 250V, 180 cm (India)

Operating System

Operating System	Part Number
Windows 10 LTSC 2021	20708WX1ES0053 (Celeron) 20708WX1VS0050 (i3/i5) 20708WX1HS0032 (i7/i9)
Windows 11 LTSC 2024	20708WLE1S0020 (Celeron) 20708WLV1S0026 (i3/i5) 20708WLH1S0016 (i7/i9)

DeviceOn/iService

Unified Remote Device Management Software

DeviceOn/iService

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

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
- Software monitoring & access
- Screens, USB devices, printers

Open for Expansion
- Peripheral integration
- Open APIs for integration

Remote Access

Real-Time Monitoring
- Connection/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
- 1-to-many batch reboot, etc.
- Time-saving tasks

Setup Booster
- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture

Client Devices			DeviceOn Server		Browser	
LAN			Internet			
Hardware	Software	Peripherals	Cloud	On-site installation	Monitor status	Controls
Free Installation			**Download Installer**		**Free Installation**	
Via the Advantech website			Via the Advantech website		Via browser	

Required Hardware

Windows10   8GB RAM   Intel®Core™ i5 storage   125GB