UTC-120

21.5" Ubiquitous Touch Computer UTC-120I with 11th Gen Intel® Core™ i5/i3 Processor



Features

- Slimmer and Lighter design
- Low power and fanless system design
- Built-in Intel® Core™ i5-1145G7E
- 21.5" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- Clean back cover design with 3 Way IO cable routing
- · Supports both landscape and portrait screen orientations
- VESA 100 mm standard mounting holes for varied mounting demands
- Support DeviceOn/iService software for remote device management



DeviceOn/iService

Introduction

UTC-120 features an 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.

Thanks for the slim and light looking with 3 way cable routing design, makes UTC-120 good fit to diverse scenarios and areas.

The systems deliver updated information with well-designed interactive interfaces, with 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.

Moreover, Advantech DeviceOn/iService Software is a next-generation unified device management 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

Process system CPU Intel Core is 1145G7E (Detault) Intel Core is 3: 1156dE Base Frequency is: 150 GH2 (Dual-Cores) is: 220 GH2 (Dual-Cores) is: 220 GH2 (Dual-Cores) Storage is: 25 internal SAIA storage, M.2 2242/2200 SSD Network 2 x Gigabit Ethernet ports (Supports Wake on LAN) 2 x RS-232 COM (COM2 RS-232/422/485) 3 x USB 3.2 Gen 1 Type-C 2 x Gigabit Ethernet ports (Supports Wake on LAN) 2 x RS-232 COM (COM2 RS-232/422/485) 3 x USB 3.2 Gen 1 Type-C 2 x Gigabit Ethernet ports 1 x LSB 3.2 Gen 1 Type-C 2 x Gigabit Ethernet ports 1 x LSB 3.2 Gen 1 Type-C 2 x Gigabit Ethernet ports 1 x HoM1 1.4 1 x Audio Phone Jack Stereo Speaker 2 x 2W Bus expansion 1 x 2 key2230, 1 x M.2 key2280 Mounting VESA 100 x 100 mm (Screw Size, M4, 7mm) Dimension (WHxD) 523 y 315 4 x 39.5 Weight 529 kg GS Support Qerating temperature 0 - 40 °C (32 - 104 °F) Relative Humidity 10 - 95% 40 40° C non-condensing 1 max Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certitization ErFC, CR, UL, CCC, BSMI Front Panel Protection IP65 Compliant Poer consumption 46W 2004/450 (90W) 46W			
Process system Base Frequency i3: 2.20 GHz (Dual-Cores ' Memory 1 x 26 pin SO-DIMM DDR 3200 MHZ up to 32GB Storage 1 x 2.5 internal SATA storage, M.2 224/2280 SSD Network 2 x Gigabit Therment ports (Supports Wake on LAN) 2 x RS-232 COM (COM2 RS-232/422/485) 3 x USB 3.2 Gen1 Type-A 1 x DMI 1.4 1 x DMI 1.4 1 x DMI 1.4 1 x HDMI 1.4 1 x AUrio Phone Jack Stereo Speaker 2 x 2W Bus expansion 1 x M.2 key2230, 1 x M.2 key2280 Mounting VESA 100 x 100 mm (Screw Size, M4, 7mm) Dimension (WxHxD) 52.3 y 315.4 x 39.5 Weight 529kg Os Support Qioerating temperature 0 - 40 °C (32 - 104 °F) Relative Humidity 10 - 95% @ 40 °C non-condensi		CPU	Intel Core i5-1145G7E (Default) Intel Core i3-1115G4E
Storage 1 x 2.5 internal SATA storage, M.2 2242/2280 SSD Network 2 x Gigabit Ethernet ports (Supports Wake on LAN) 2 x RS-232 COUX RS-232/422/485) 2 x RS-232 COUX RS-232/422/485) x USB 3.2 Gen1 Type-C 1 x USB 3.2 Gen1 Type-C 1 x USB 3.2 Gen1 Type-C 2 x Gigabit Ethernet ports 2 x Gigabit Ethernet ports 1 x USB 3.2 Gen1 Type-C 2 x Gigabit Ethernet ports 1 x HDMI 1.4 1 x Audio Phone Jack 2 x Gigabit Ethernet ports Stereo Speaker 2 x 2W Bus expansion 1 x M.2 key2230, 1 x M.2 key2280 Mounting VESA 100 x 100 mm (Screw Size, M4, 7mm) Dimension (WxHxD) 52.9 x 315.4 x 39.5 Weight 52.9 x 315.4 x 39.5 Weight 10 - S5.29 x 315.4 x 39.5 Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Power Supply PoE n/a	Process system	Base Frequency	
Process system Network 2 x Gigabit Ethernet ports (Supports Wake on LAN) 2 x R5-232 C0M (C0M2 R5-232/422/485) 3 x USB 3.2 Gen1 Type-A 1 x USB 3.2 Gen1 Type-C 2 x Gigabit Ethernet ports 1 x DC-in USB Type-C 2 x Gigabit Ethernet ports 1 x HDM 1:4 1 x Audio Phone Jack Stereo Speaker 2 x 2W Bus expansion 1 x M.2 key2230, 1 x M.2 key2280 Mounting VESA 100 x 100 mm (Screw Size, M4, 7mm) Dimension (WXHxD) 523.9 x 315.4 x 39.5 Weight 529kg OS Support Vin 10 IoT Enterprise 64bit Linux Perating temperature 0 - 40 °C (32 - 104 °F) Relative Humidity 10 - 95% @ 40 °C non-condensing Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant Power Supply PoE n/a		Memory	1 x 260pin SO-DIMM DDR4 3200 MHZ up to 32GB
Process system 2 x R5-232 COM (COM2 RS-232/422/485) 3 x USB 3 2 Gen 1 Type-A 1 x USB 3 2 Gen 1 Type-C 1 x DC-in USB Type-C 2 x Gigabit Ethernet ports 1 x DC-in USB Type-C 2 x Gigabit Ethernet ports 1 x Audio Phone Jack Stereo Speaker 2 x 2W Bus expansion 1 x M.2 key2230, 1 x M.2 key2280 Mounting VESA 100 x 100 mm (Screw Size, M4, 7mm) Dimension (WXHD) 523.9 x 315.4 x 39.5 Weight 529kg OS Support Win 10 IoT Enterprise 64bit Linux Fervironment Specification Qerating temperature Vibration 040 °C (32 - 104 °F) Relative Humidity 10 - 95% @ 40 °C non-condensing Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant DC nour Cating 20/4/5.4 (90W) Poe n/a		Storage	1 x 2.5 internal SATA storage, M.2 2242/2280 SSD
Process system <i>I</i> v USB 3.2 Gen1 Type-A 1 x USB 3.2 Gen1 Type-C 1 x USB 3.2 Gen1 Type-C 2 x Gigabit Ethernet ports 1 x HOM1 1.4 1 x HOM1 1.4 1 x HOM 1.4 1 x Audio Pone Jack Stereo Speaker 2 x 2W Bus expansion 1 x M.2 key2230, 1 x M.2 key2280 Mounting VESA 100 x 100 mm (Screw Size, M4, 7mm) Dimension (WxHxD) 523 9 x 315.4 x 39.5 Weight 5.29kg OS Support Vin 10 IoT Enterprise 64bit Linux Prover Suppif 0-perating temperature 0 - 40 °C (32 - 104 °F) Relative Humidity Relative Humidity 10 - 95% @ 40 °C non-condensing Vibration 0.5G Shock 10G peak acceleration(11 msec. duration) Certification Front Panel Protection Frode Shock 10G peak acceleration(11 msec. duration) Certification For Compliant Frode Shock 10G peak acceleration(11 msec. duration) Certification PoE Power Supply DC Input Rating PoE 20V/4.5A (90W)		Network	2 x Gigabit Ethernet ports (Supports Wake on LAN)
Bus expansion1 x M.2 key2230, 1 x M.2 key2280MountingVESA 100 x 100 mm (Screw Size, M4, 7mm)Dimension (WxHxD)523.9 x 315.4 x 39.5Weight5.29kgOS SupportWin 10 IoT Enterprise 64bit LinuxRelative Humidity0 ~ 40 °C (32 ~ 104 °F)Relative Humidity10 ~ 95% @ 40 °C non-condensingVibration0.5GShockShock 10G peak acceleration(11 msec. duration)CertificationCE, FCC, CB, UL, CCC, BSMIFront Panel ProtectionIP 65 CompliantPower SupplyPoEn/a		I/O Ports	3 x USB 3.2 Gen1 Type-A 1 x USB 3.2 Gen 1 Type-C 1 x DC-in USB Type-C 2 x Gigabit Ethernet ports 1 x HDMI 1.4
Mounting VESA 100 x 100 mm (Screw Size, M4, 7mm) Dimension (WxHxD) 523.9 x 315.4 x 39.5 Weight 5.29kg OS Support Win 10 IoT Enterprise 64bit Linux Operating temperature 0 ~ 40 °C (32 ~ 104 °F) Relative Humidity 10 ~ 95% @ 40 °C non-condensing Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant Power Supply PoE n/a		Stereo Speaker	2 x 2W
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Veight 5.29kg OS Support Win 10 IoT Enterprise 64bit Linux Perating temperature 0 ~ 40 °C (32 ~ 104 °F) Relative Humidity 10 ~ 95% @ 40 °C non-condensing Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant DC Input Rating 20V/4.5A (90W) PoE n/a		Mounting	VESA 100 x 100 mm (Screw Size, M4, 7mm)
OS Support Win 10 IoT Enterprise 64bit Linux Pervironment Specification Operating temperature 0 ~ 40 °C (32 ~ 104 °F) Relative Humidity 10 ~ 95% @ 40 °C non-condensing Vibration Vibration 0.5G Shock Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant DC Input Rating 20V/4.5A (90W) PoE n/a		Dimension (WxHxD)	523.9 x 315.4 x 39.5
Linux Operating temperature 0 ~ 40 °C (32 ~ 104 °F) Relative Humidity 10 ~ 95% @ 40 °C non-condensing Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant DC Input Rating 20V/4.5A (90W) PoE n/a		Weight	5.29kg
Power Supply Relative Humidity 10 ~ 95% @ 40 °C non-condensing Interstation 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant DC Input Rating 20V/4.5A (90W) PoE n/a	OS Support		
Environment Specification Vibration 0.5G Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant Power Supply DC Input Rating 20V/4.5A (90W) PoE n/a		Operating temperature	0 ~ 40 °C (32 ~ 104 °F)
Environment Specification Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant DC Input Rating 20V/4.5A (90W) Poker Supply PoE		Relative Humidity	10 ~ 95% @ 40 °C non-condensing
Shock Shock 10G peak acceleration(11 msec. duration) Certification CE, FCC, CB, UL, CCC, BSMI Front Panel Protection IP 65 Compliant DC Input Rating 20V/4.5A (90W) PoE n/a	Environment Specification	Vibration	
Front Panel Protection IP 65 Compliant DC Input Rating 20V/4.5A (90W) Power Supply PoE	спитоппена оресписации	Shock	Shock 10G peak acceleration(11 msec. duration)
DC Input Rating 20V/4.5A (90W) Power Supply PoE n/a		Certification	
Power Supply PoE n/a			
Power consumption 46W	Power Supply		
		Power consumption	46W

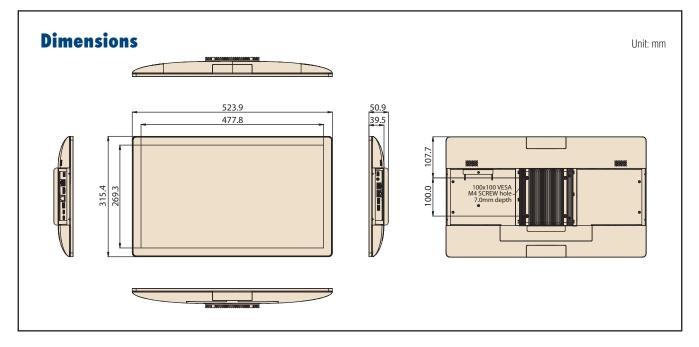
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HMI Parts Cent

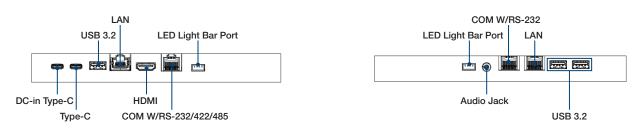
Specifications (Cont.)

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	Size/Type	21.5" FHD	21.5" FHD
	Max.Resolution	1920 x 1080	1920 x 1080
LCD Display	Max. Color	16.7M	16.7M
LOD Display	Pixel Pitch (um)	248.25(H) x 248.25(V)	247.95(H) x 247.95(V)
	Brightness (cd/m ²)	250	500
	View Angle	178° /178°	178° /178°
	Туре	Projected Capacitive.	
Touch Screen Option	Light Transmission	> 85%	
	Controller	USB Interface	
TPM		TPM 2.0	
	Operating System	Windows 10	
	Common Controls (Reboot, Shutdown)	\checkmark	
	Remote desktop	✓(VNC)	
	Device-Specific Controls (Audio)	\checkmark^{\star}	
	Connection Status	\checkmark	
	Hardware Status	\checkmark^{\star}	
DeviceOn/iService	Hard Disk Status	\checkmark^{\star}	
Remote Device Management	Batch Operation Support	\checkmark	
	OTA Storage Management	FTP	
	OTA Software Updates	\checkmark	
	Software Watchlist	\checkmark	
	Software Start/Stop	\checkmark^{\star}	
	Kiosk Mode		
*Dependent on device model	Peripherals Watchlist	\checkmark^{\star}	

Note: DeviceOn/iService software must be downloaded from the Advantech website at https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility



Fully- Integrated I/O



Online Download www.vicpas.com

Ordering Information

For Worldwide Model

Part No.	Descriptions
UTC-120IP-WWW1E	21.5" FHD, Pcap, I5-1145G7E, 8G RAM, 128G SSD, Win10, Wifi/BT, Silver
Information	
Part No.	Descriptions
170203183C/170203183C-01	Power Cord EU 3P 2.5A 250V 183cm (US)
1700001524	Power Cord UL 3P 10A 125V 183cm (EU)
1700019146	Power Cord CCC 3P 2.5A 250V 183cm (China)
170203180A	Power Cord BSI 3P 2.5A 250V 183cm (UK)
1700025928-02	COM Port Converter cable RJ48-10P10C to D-SUB 9P 35cm
UTC-T01-STANDE	Tri Shape Floor Stand 120cm
UTC-100P-STAND0E	L Stand
UTC-300P-D20E	Desk Stand, Silver, for UTC-115/120
UTC-AVALO-STANDOE	Avalo Stand
ARES-2423X-S151001	Table Stand for UTC-115 (Black)
ARES-2425X-S271001	Tilt Table Stand for UTC-100 Serires (Black) (Support Portrait & Landscape)
ARES-12250-L101000	Vesa Wall-mount for UTC-100 Series (Black)

Peripheral Mountable on All 4 Sides



Peripherals for UTC-100(AIO system) series

Part No.	Description
UTC-100P-B11E	2D Barcode Scanner for UTC-115/120
UTC-100P-C10E	5M Camera for UTC-115/120
UTC-100P-R10E	RFID Scanner for UTC-115/120
UTC-100P-M10E	MSR Reader for UTC-115/120
UTC-100P-S10E	Smart Card Reader for UTC-115/120
UTC-100P-L10E	LED Light Bar for UTC-115/120
UTC-100P-F10E	Finger Print Reader for UTC-115/120
UTC-100P-T10E	Thermal Camera for UTC-115/120



DeviceOn/iService

Unified Remote Device Management Software

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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

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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

Open for Expansion

Peripheral integration

Open APIs for integration

Software monitoring & access

Screens, USB devices, printers

Remote Access

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- 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

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- **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

