UTC-124

23.8" Ubiquitous Touch Computer

UTC-124K with 12th Gen Intel® Core™ N97/i3-N305 Processor



DeviceOn/iService

Features

- Slimmer and Lighter design
- Low power and fanless system design
- Built-in Intel® N97/i3-N305
- 23.8" 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

Introduction

UTC-124 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-124 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 Processor N97 Intel Core i3-N305
	Base Frequency	N97: 2.0 GHz (4 cores) i3: 1.8 GHz (8 cores)
	Memory	1 x 262pin SO-DIMM DDR5 4800MHz up to 16GB
	Storage	1 x 2.5 internal SATA storage*, M.2 2242/2280 SSD
	Network	2 x Gigabit Ethernet ports (Supports Wake on LAN)
	I/O Ports	2 x RS-232 COM (COM2 RS-232/422/485) 2 x USB 3.2 Gen1 Type-A 2 x USB 2.0 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 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)	587 x 356 x 42.5 mm
	Weight	6.5kg
OS Support		Win 10/11 IoT Enterprise 64bit Linux, Android 14
Environment Specification	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	DC Input Rating	20V/4.5A (90W)
	PoE	n/a
	Power consumption	55W
LCD Display	Size/Type	23.8" FHD
	Max.Resolution	1920 x 1080
	Max. Color	16.7M
	Pixel Pitch (um)	274.5(H) x 274.5(V)
	Brightness (cd/m^2)	350
	View Angle	178°/178°
Touch Screen Option	Type	Projected Capacitive.
	Light Transmission	> 85%
	Controller	USB Interface
TPM		TPM 2.0

All product specifications are subject to change without notice, * identify as optional function

Last updated: 30-Oct-2026

Specifications (Cont.)

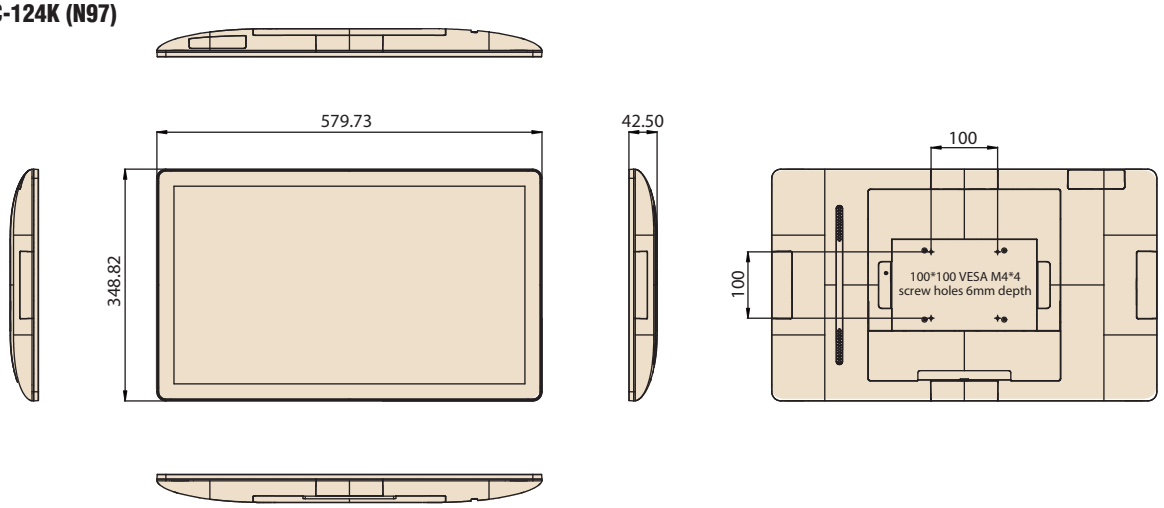
DeviceOn/iService Remote Device Management	Operating System	Windows 10 / Windows 11
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓(VNC)
	Device-Specific Controls (Audio)	✓*
	Connection Status	✓
	Hardware Status	✓*
	Hard Disk Status	✓*
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software Watchlist	✓
	Software Start/Stop	✓*
	Kiosk Mode	
*Dependent 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
Note: It will block some IO ports on the same side.

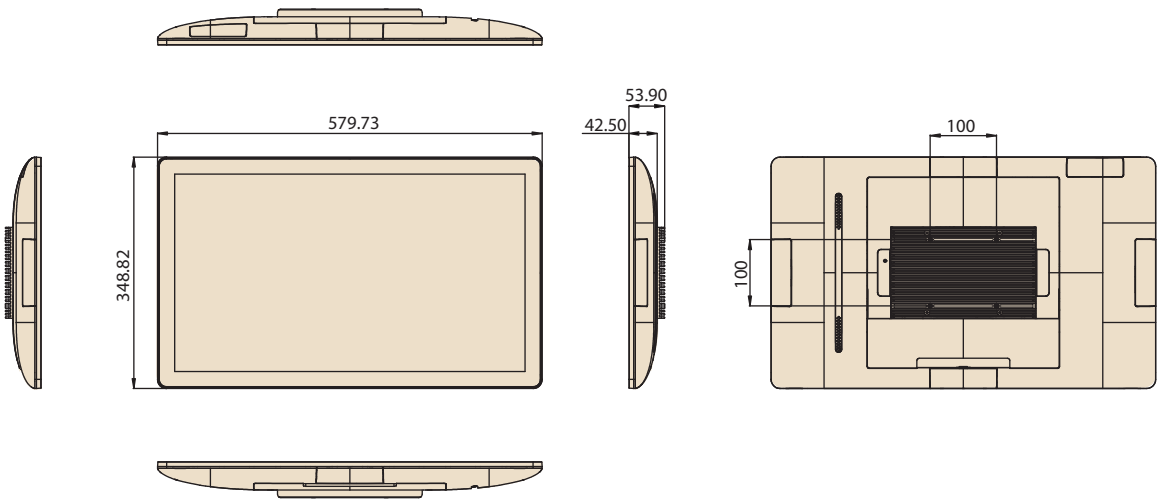
Dimensions

Unit: mm

UTC-124K (N97)

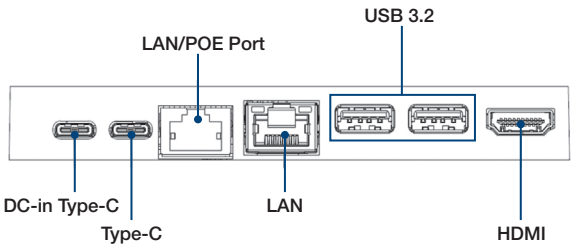


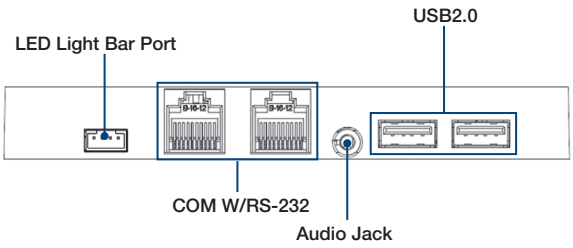
UTC-124K (i3)



Note: The VESA mounting hole depth is 6 mm. Select the screw length according to the VESA plate thickness. M4 × 6 mm screws may be used when the plate thickness is less than 2 mm.

Fully- Integrated I/O





Ordering Information

Part Number	Size	CPU	Memory	Storage	OS	Color	WiFi/BT	PoE	COO
UTC-124KP-WWW1E	23.8"	N97	8GB	128GB	Win11 IoT	Silver	Yes	-	China
UTC-124KP-NWW1E	23.8"	N97	8GB	128GB	-	Silver	Yes	-	China
UTC-124KP-WWF1E	23.8"	i3-N305	8GB	256GB	Win11 IoT	Silver	Yes	-	China
UTC-124KP-WUS1E	23.8"	N97	8GB	128GB	Win11 IoT	Silver	Yes	-	Taiwan
UTC-124KP-WUF1E	23.8"	i3-N305	16GB	256GB	Win11 IoT	Silver	Yes	-	Taiwan

Packing List

Part Number	Description
96PSA-A90WPDUC	Power adapter 100-240V 90W 20V
1930004446	2 pcs of M3 screw for 2.5" hard drive
1700033923-01	Type A USB cable for UTC-100 series pheripherals
1700001524	Power Cord UL 3P 7A 125V 183cm (COO Taiwan only)

Optional Accessories

Part No.	Descriptions
1700001524	Power Cord UL 3P 7A 125V 183cm
170203183C/170203183C-01	Power Cord EU 3P 2.5A 250V 183cm (EU)
1700019146	Power Cord CCC 3P 2.5A 250V 183cm (China)
170203180A	Power Cord BSI 3P 2.5A 250V 183cm (UK)
1700008921	Power Cord PSE 3P 7A 125V 183cm (JP)
1700025928-03	COM Port Converter cable RJ48-10P10C to D-SUB 9P 35cm
1960102654N001	VESA 100-to-75 adapter bracket for UTC-115/120/124
1930004980	M4 screw for VESA adapter bracket (4 pcs required for VESA installation)
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)

Peripherals for UTC-100 Series

Part No.	Description
UTC-100P-B11E	2D Barcode Scanner for UTC-115/120/124
UTC-100P-C10E	5M Camera for UTC-115/120/124
UTC-100P-R10E	RFID Scanner for UTC-115/120/124
UTC-100P-R30E	RFID Reader (NFC) for UTC-115/120/124
UTC-100P-M10E	MSR Reader for UTC-115/120/124
UTC-100P-S10E	Smart Card Reader for UTC-115/120/124
UTC-100P-L10E	LED Light Bar for UTC-115/120/124

Peripheral Mountable on All 4 Sides



DeviceOn / iService

Unified Remote Device Management Software



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

