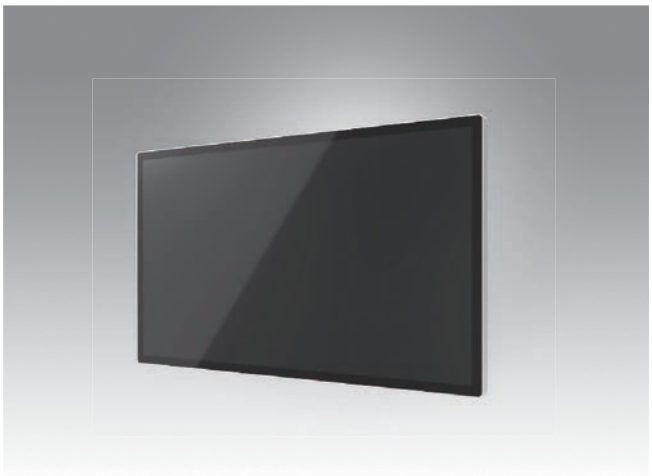
UTC-542

42.5" Ubiquitous Touch Computer 542J with Intel® Celeron® J6412



Features

- High performance and fanless system design
- Built-in Intel® Celeron® J6412 (UTC-542J)
- 42.5" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- Supports both landscape and portrait screen orientations
- VESA 200 mm standard mounting holes for varied mounting demands

Introduction

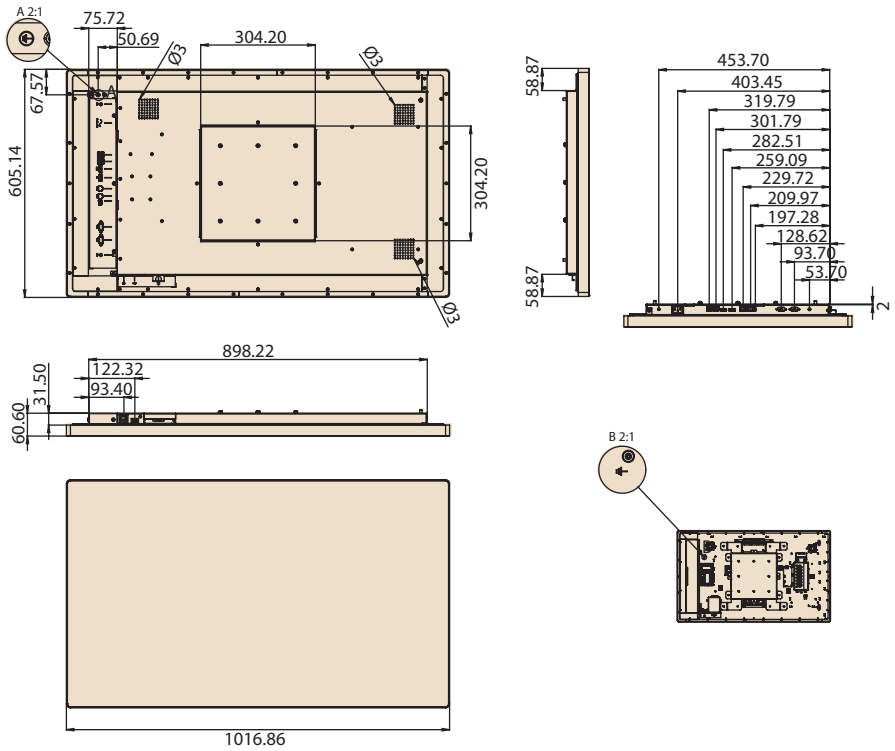
UTC-542 features an all-in-one computing system equipped with wide format, touch based LCD panel. It is easy to integrate key peripherals and display systems for diversified self-service and interactive signage deploy in different application areas. The systems deliver updated information with well-designed 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.

Specifications

Processor System	CPU	Celeron® J6412 (Default)
	Base Frequency	2.0GHz
	Cache	1.5 MB L2 Cache
	Memory	1x 260 pin SO-DIMM DDR4-3200 up to 32GB
	SSD	1 x 2.5 internal SATA SSD bay
	Network (LAN)	2 x RJ-45; LAN1: Realtek RTL8111H, LAN2: Realtek RTL8111H
	I/O ports	4 x USB3.2 Gen2 (10Gbps) 2 x GbE, LAN1: Intel i219LM, LAN2: Intel i210AT/IT 1 x HDMI / 1 x DP 2 x RS-232 COM (RS-422/485)* 1 x USB 2.0 (Side port)
	Stereo Speaker	10W x 2
	Bus expansion	1x E-Key for wireless module (Type: 2230) optional B-Key for LTE module 1x M-Key support SATA M.2 2242 module
	Dimensions (W x H x D)	1016.9 x 605.2 x 60.5mm (Pcap)
	Weight	24.6 kg (54.23 lb)
OS Support		Win 10 IoT Enterprise Win 11 IoT Enterprise Android 14 Ubuntu 22.04
Board Features	Watchdog Timer	65536 intervals, 0 ~ 65535 sec
	TPM	TPM 2.0
Environmental Specifications	Operating Temperature	0 ~ 40° C (32 ~ 104° F)
	Relative Humidity	95% @ 40° C non-condensing
	Vibration	0.5G
	Shock	5 G peak acceleration (11 msec. duration)
	Certification	CE, FCC, UL, CB, CCC, BSMI
	Front Panel Protection	IP65 rated/NEMA4 compliant
Power Supply	Input Voltage	100~240V
	Adapter	24V, 9.59A (230W ITE adapter)
	Power consumption	Typical 95W Max. 105W
LCD Display	Size/Type	42.5" TFT LCD with LED backlight
	Max.Resolution	1920 x 1080
	Max. Color	16.7 M
	Pixel Pitch (mm)	0.49 (H) x 0.49 (W)
	Brightness (cd/m^2)	450 nits
	View Angle	178°/178°
Touch Screen (PE/GE)	Type	Projected Capacitive Touch Panel (Pcap. Flat Glass) / Glass Panel (No touch function)
	Light Transmission	90% ± 2% / 90%
	Controller	USB Interface / -

Dimensions

Unit: mm



Ordering Information

Part No.	Description
UTC-542JP-ATB0E	42.5 Intel® Celeron® J6412 fanless UTC with PCT.T/S. 8GB RAM
1702002605	Power cord 2P FRANCE 10A/16A 220V 1.83M 90D
1702002600	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
1700000596-11	Power Cord (China) CCC,10A 250V, 3P 1830mm
1700032693-11	Power Cord UK BSI 2P 10A 250V 180cm 18AWG
1960110312N002	IO Cover for UTC-542I series

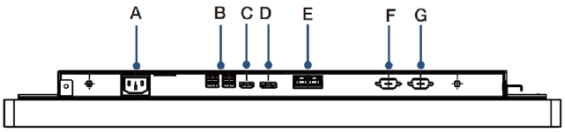
Installation Accessory for UTC-542

Part No.	Description
ARES-12290-L202000	Wall Mount kit for UTC-532
UTC-H01-STANDE	H-shaped floor stand

UTC-542 WiFi Ordering Information

Part No.	Description
UTC-WIFI-A5E	AIW-163BR 802.11ax with BT5.2, PCIe-USB, Realtek 8852BE, M.2 2230
UTC-WIFI-A6E	EWM-W179,802.11ax/ac/b/g/n, 2T2R, BT5.2, M.2

Fully- Integrated I/O



Side USB port

A. Power Inlet
B. USB3.2 x 4
C. HDMI
D. DP
E. LAN x2
F. COM1
G. COM2
H. USB2.0
I. Switch

Specifications

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	✓*

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

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

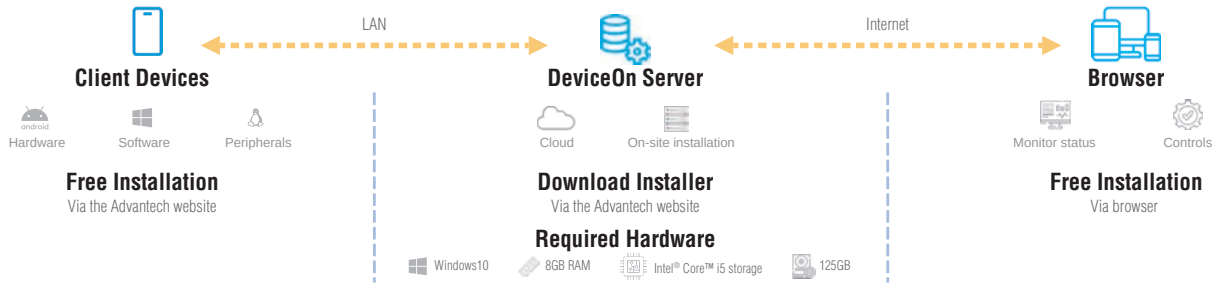
Troubleshooting
- Screenshots
- Remote desktop support

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