UTC-510
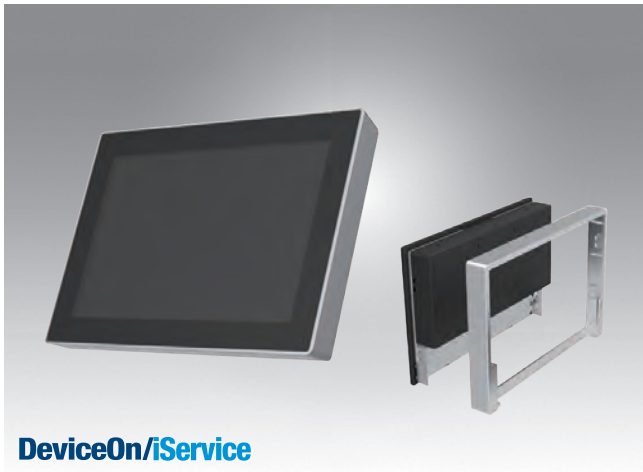
10.1" Ubiquitous Touch Computer
UTC-510D with Intel® Celeron® J1900
UTC-510G with Intel® Celeron® N3350 & Pentium® N4200

Features

- Low Power & Fanless design
- Built-in Intel® Celeron® J1900 (UTC-510D)
- Built in Intel® Celeron® N3350/Pentium® N4200 (UTC-510G)
- Providing Natural Viewing Experience with 16:10 10.1" Display
- Landscape & Portrait screen mode support by different applications
- VESA 75 mm standard mounting holes for varied mounting demands
- Detachable plastic frame design for panel mount applications
- Support DeviceOn/iService software for remote device management

DeviceOn/iService

Windows® Embedded (UL) (CCC) C E FCC RoHS COMPLIANT 2002/95/EC

Introduction

UTC-510 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.

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

Processor System	CPU	Intel® Celeron® J1900 (UTC-510D)	Intel® Celeron® N3350 (UTC-510G)	Intel® Pentium® N4200 (UTC-510G)
	Base Frequency	2 GHz (Quad-Core)	1.10 GHz (Dual-Core)	1.10 GHz (Quad-Core)
	Cache	L2 Cache 2MB	L2 Cache 2MB	L2 Cache 2MB
	Memory	1 x 204 pin SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x 204 pin SO-DIMM DDR3L 1866 MHz up to 8 GB	
	HDD	1 x 2.5 internal SATA HDD bay		
	Network (LAN)	1 x Gigabit Ethernet ports (Supports Wake on LAN)		
	I/O ports	2 x RS-232 COM (COM1 RS-422/485 supported)* 1 x USB 2.0 / 1 x USB 3.0 / 2 x USB 2.0 (optional)* 1 x Gigabit Ethernet (RJ-45) 1 x VGA Audio Line-out x 1, Mic-in x 1	2 x RS-232 COM (COM1 RS-422/485 supported)* 2 x USB 3.0 / 2 x USB 2.0 (optional)* 1 x Gigabit Ethernet (RJ-45) 1 x VGA Audio Line-out x 1, Mic-in x 1	
	Stereo Speaker	2 W x 1		
	Bus expansion	1 Half size MiniPCIe 1 Half size mSATA	1 Full size MiniPCIe 1 Half size mSATA	
	Mounting	VESA 75 x 75 mm		
	Dimensions (W x H x D)	265.40 x 182.40 x 39.55 mm		
	Weight	1.80 kg (3.97 lbs)		
OS Support		WES7P 32/64bit Windows Pro Embedded 7 Pro 32/64bit WE8S 32bit Windows Embedded 8.1 Industry Pro 64bit Win 10 IoT Enterprise 64bit Linux Ubuntu 16.04 Android 6.0	Window 10 IoT Enterprise Linux Ubuntu 20.04 Android 10	
Front Panel Protection		IP 65 Compliant		
Environmental Specifications	Operating Temperature	0 ~ 35° C (32 ~ 95° F)	0 ~ 45° C (32 ~ 113° F)	
	Relative Humidity	10 ~ 95% @ 40° C non-condensing		
	Vibration	1Grms		
	Shock	5G peak acceleration (11 msec. duration)		
	Certification	CE (No RED certification), FCC, CB, UL, CCC, BSMI		
Power Supply	Input Rating	12 V/3 A (36W ITE Adapter)		
	Power consumption	Typical 10W Max. 20W		
LCD Display	Size/Type	10.1" TFT LCD with LED backlight		
	Max.Resolution	1280 x 800		
	Max. Color	16.7M		
	Pixel Pitch (um)	169.5 x 169.5		
	Brightness (cd/m²)	350		
	View Angle	170 / 170		
	Camera	5 Mega Pixel (Optional)		
Touch Screen Option (PE/GE)	Type	Projected Capacitive. Glass Panel		
	Light Transmission	80% ± 5% / 90%		
	Controller	USB Interface / -		

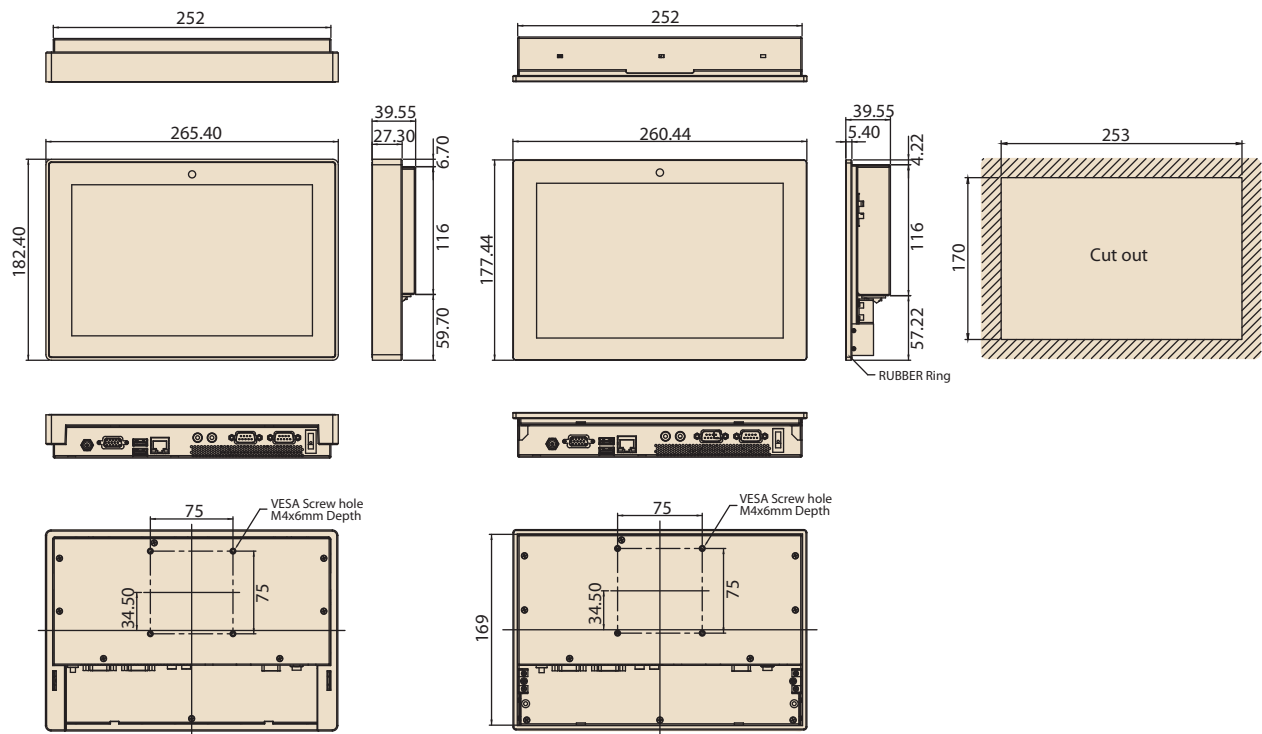# Specifications (Cont.)

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

RUBBER Ring

VESA Screw hole M4x6mm Depth

Cut out

Ordering Information

Part No.	Description
UTC-510DP-ATB1E	10.1" Intel Celeron J1900 Based fanless UTC with PCT.T/S 4GB RAM
UTC-510DP-ATN1E	10.1" PCT.T/S with Celeron J1900, 4GB RAM, Ant.
UTC-510GP-ATB0E	10.1" Intel Celeron N3350 Based fanless UTC with PCT.T/S 4GB RAM
UTC-510GP-ATB1E	10.1" Intel Pentium N4200 Based fanless UTC with PCT.T/S 4GB RAM
UTC-510GP-ATN1E	10.1" Intel Pentium N4200 Based fanless UTC with PCT.T/S 4GB RAM, Ant
1700001524	Power Cord 3P UL 10A 125V 180cm
170203180A	Power Cord 3P UK 2.5A/3A 250V 1.83M
170203183C	Power Cord 3P Europe (WS-010+WS-083)183cm
1700021374-01	Power Cord 3P CCC 2.5A 250V 250cm (IEC60320-C5)
1960073820N101	IO Cover UTC-510
1931031500	Screws for IO Cover UTC-510(*2)

Peripherals for UTC-510 series

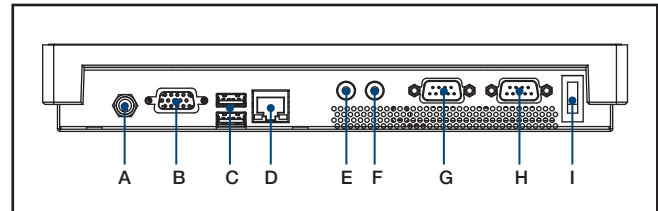| Part No.	Description
UTC-510P-F01E	Finger Print Reader For UTC-510 (USB connection)
UTC-510P-R01E	RFID Reader For UTC-510 (USB connection)
UTC-510P-B03E	2D Barcode Scanner - Honeywell N3680 for UTC-510 (USB connection)
UTC-510P-M01E	Magnet Strip Reader For UTC-510 (USB connection)
UTC-510P-S01E	Smart Card Reader For UTC-510 (USB connection)

Installation Accessory

Part No.	Description
UTC-WALL-MOUNT5E	UTC-510 VESA mount (75 x 75)
UTC-510-STAND0E	UTC-510 desktop stand
1960074091N000	UTC-510 Panel Mount Clamper (*4)
1930005598	UTC-510 Panel Mount Screw (*4)
ARES-2414X-S150201	Table Stand, 75x75mm

WIFI ordering information for UTC-510 series

Part No.	Description
UTC-510W-A0E	EWM-W172, 802.11ac/a/b/g/n, 2T2R, BT4.2, HMC
UTC-510W-A1E	EWM-W193, 802.11ac/a/b/g/n, 2T2R, BT5.0, HMC
UTC-510W-A2E	EWM-W189, 802.11ac/a/b/g/n, 2T2R, BT4.2, HMC

Fully- Integrated I/O

A. DC Power jack
B. VGA
C. USB 3.0 X 1, USB 2.0 x 1 (for UTC-510D)
   USB 3.0 X 2 (for UTC-510G)
D. LAN Ports
E. MIC-in
F. Line-out
G. COM 2
H. COM 1
I. Power switch

DeviceOn/iService

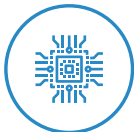**Unified Remote Device Management Software**

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

	LAN		Internet	
Client Devices	↔	**DeviceOn Server**	↔	**Browser**

Client Devices
- Hardware (android)
- Software (Windows)
- Peripherals

Free Installation
Via the Advantech website

DeviceOn Server
- Cloud
- On-site installation

Download Installer
Via the Advantech website

Required Hardware
Windows10 · 8GB RAM · Intel® Core™ i5 storage · 125GB

Browser
- Monitor status
- Controls

Free Installation
Via browser