UTC-515

15.6" Ubiquitous Touch Computer
UTC-515G with Intel® Pentium N4200
UTC-515H with Intel® Core™ i3-8145UE

DeviceOn/iService

Features

- Low power and fanless system design
- Built-in Intel® Pentium N4200 (UTC-515G)
- Built-in Intel® Core™ i3-8145UE (UTC-515H)
- 15.6" monitor with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- All in one aluminum extrusion design
- Supports both landscape and portrait screen orientations
- VESA 100 mm standard mounting holes for varied mounting demands
- Side groove design for flexible peripheral installation
- Optional Full HD (1920 x 1080) LCD panel
- Support DeviceOn/iService software for remote device management
- i7 sku is available for H platform
- H platform supports TPM 2.0

Windows® Embedded   CCC   UL   CE   FCC   RoHS COMPLIANT 2002/95/EC

Introduction

UTC-515 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

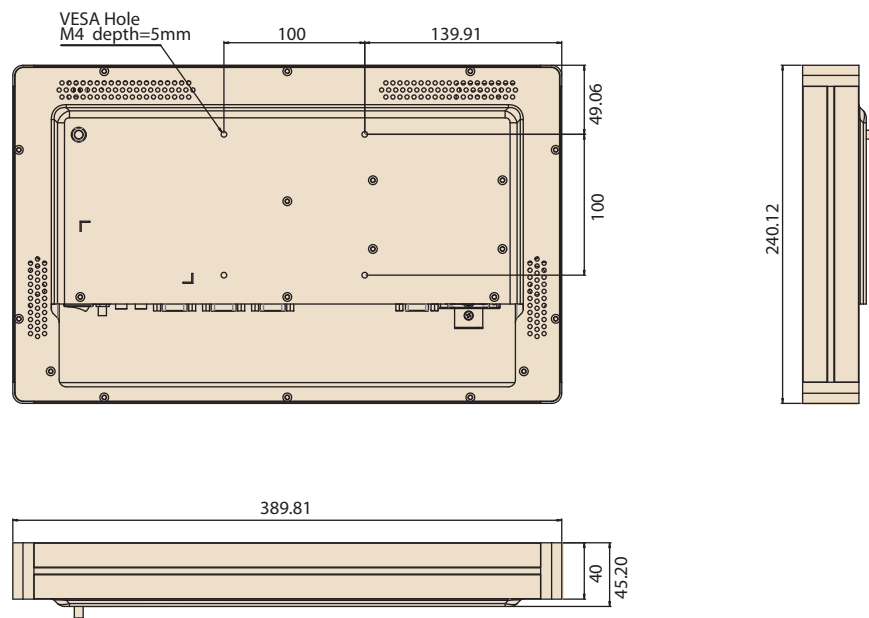| Model		UTC-515G	UTC-515H
Processor System	CPU	Intel® Pentium® N4200 (UTC-515G)	Intel® Core™ i3-8145UE (UTC-515H) Intel® Core™ i5-8365UE (Available)* Intel® Core™ i7-8665UE (Available)*
	Base Frequency	1.1 GHz (Quad-Core)	2.20 GHz (i3-8145UE/Dual-Core)
	Cache	L2 Cache 2MB	L3 Cache 4MB
	Memory	1 x 204 pin SO-DIMM DDR3L 1867 MHz up to 8GB	1 x 260 pin SO-DIMM DDR4 2400 MHz up to 32GB
	HDD	1 x 2.5 internal SATA HDD bay	
	Network (LAN)	2 x Gigabit Ethernet Ports, Intel I210AT (supports Wake on LAN)	2 x Gigabit Ethernet Ports, Intel I210IT; Intel I219LM (supports Wake on LAN)
	I/O ports	2 x RS-232 COM (RS-422/485)* 2 x USB 2.0 / 2 x USB 3.0 2 x Gigabit Ethernet (RJ-45) 1 x VGA 1 x HDMI 1 x Audio Line-out 1 x Mic-in	2 x RS-232 COM (RS-422/485)* 4 x USB 3.1 2 x Gigabit Ethernet (RJ-45) 1 x HDMI 1 x Audio Line-out 1 x Mic-in
	Stereo Speaker	2 x 1W	
	Bus expansion	1 x Full-size MiniPCIe / mSATA 1 x M.2 E-key 2230	1 x M.2 E-key 2230 1 x M.2 B-key 2280 (NVMe PCIe x 4) / M.2 B-Key 3042 LTE module supports USB 2.0 only (optional)
	Mounting	VESA 100 x 100 mm	
	Dimensions (W x H x D)	390 x 240 x 45 mm	
	Weight	4.85 kg (10.67 lb)	
Board Feature	Watchdog Timer	65536 level, 0~65535 sec	
	TPM	N/A	TPM2.0 (SLB9670XQ2.0)
OS Support		Win 10 IoT Enterprise Android 10 Linux Ubuntu 20.04	Win 10 IoT Enterprise Linux Ubuntu 20.04
Environmental Specifications	Operating Temperature	0 ~ 40° C (32 ~ 104° F)	
	Relative Humidity	10 ~ 95% @ 40° C non-condensing	
	Shock	Operating 10G peak acceleration (11ms duration), follow IEC 60068-2-27	
	Vibration	Operating Random Vibration Test 5 ~ 500Hz, 1Grms @with HDD; 2Grms @with SSD, follow IEC 60069-2-64	
	EMC/ Safety	CE (RED Compliance), EN 61000-6-2: 2005 / AC: 2005, FCC, UL, CB, CCC, BSMI	
	Front Panel Protection	IP65/ NEMA4 Compliant	
Power Supply	Input Rating	12 V/5 A (60 W ITE Adapter)	12~24V/7A (84W ITE Adapter)
	Power consumption	Typical 35W Max. 40W	Typical 40W Max. 50W
LCD Display	Size/Type	15.6" TFT LCD with LED backlight	
	Max.Resolution	1366 x 768 (FHD 1920 x 1080 Optional)	
	Max. Color	16.7M	
	Pixel Pitch (um)	252 x 252	
	Brightness (cd/m²)	400 nits	
	View Angle	170°/160°	
Touch Screen Option (PE/RE)	Type	Projected Capacitive. Single point Analog Resistive 5-wires touch	
	Light Transmission	88% ± 2% / 80% ± 3%	
	Controller	USB Interface	

ADVANTECH   **Interactive Self-service Terminals**

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	✓
*Dependant on device model	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

Dimensions

Unit: mm

Ordering Information

Part No.	Description
UTC-515G-PE	15.6" 9H PCT.T/S with Intel Pentium N4200, 4GB RAM, IT Adapter
UTC-515GP-ATB0E	15.6" 7H PCT.T/S with Intel Pentium N4200, 4GB RAM, IT Adapter
UTC-515GR-ATB0E	15.6" Resi.T/S with Intel Pentium N4200, 4GB RAM, IT Adapter
UTC-515H-PE	15.6" 9H PCT.T/S with Intel Core i3-8145UE, 8GB RAM, IT Adapter
UTC-515HP-ATB0E	15.6" 7H PCT.T/S with Intel Core i3-8145UE, 8GB RAM, IT Adapter
UTC-515HR-ATB0E	15.6" Resi.T/S with Intel Core i3-8145UE, 8GB RAM, IT Adapter
1702002600	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
1702002605	Power Cord 2P FRANCE 10A/16A 220V 1.83M 90D
1700000596	Power Cord (China) CCC,10A 250V, 3P 1830mm
1700018704	Power Cord UK BSI 2P 10A 250V 180cm 18AWG
1960060674N001	IO Cover for UTC-515 series

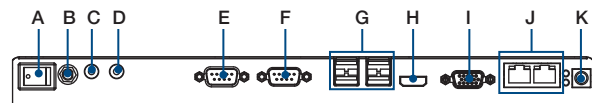## Peripherals for UTC-500 series

Part No.	Description
UTC-P01-A1E	5M Camera Module For UTC-5XX (USB connection)
UTC-P02-A0E	Magnet Strip Reader For UTC-5XX (USB connection)
UTC-P03-A1E	RFID / NFC Reader For UTC-5XX (USB connection)
UTC-P06-A2E	Smart Card Reader For UTC-5XX (USB connection)
UTC-P07-A4E	2D Barcode Module (Honeywell) for UTC-500 Series (USB connection)
UTC-P09-A0E	Fingerprint reader for UTC-5xx (USB connection)
UTC-P21-A2E	4 in 1 Modules Barcode reader + RFID + Card reader + MSR

Installation Accessory

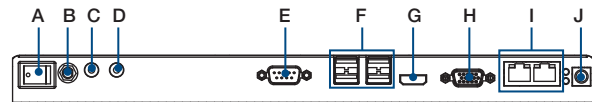| Part No.	Description
96PD-00824	UTK-700 Desktop Stand (w/o Printer)
96PD-00825	UTK-700 Extension Tower (For 96PD-00824 only)
UTC-520-STAND1E	Desktop stand for UTC-515/520
UTC-S01-STAND	Desk Stand for 100 x 100 / 75 x 75 mm
UTC-T01-STANDE	Triangle shape floor stand
UTC-H01-STANDE	H-shaped floor stand
UTC-WALL-MOUNT1E	Wall Mount kit for UTC-515/520
UTC-WALL-MOUNT3E	Wall Mount kit for UTC-515/520

Fully- Integrated I/O

UTC-515G

A. Power switch
B. Antenna Port
C. Line-out
D. Mic-in
E. COM2
F. COM1

G. USB 3.0 x 2, USB 2.0 x 2
H. HDMI
I. VGA
J. LAN Ports x 2
K. DC Input

UTC-515H

A. Power switch
B. Antenna Port
C. Line-out
D. Mic-in
E. COM2

F. USB 3.1 x 4
G. HDMI
H. COM1
I. LAN Ports x 2
J. DC Input

UTC-515 WiFi Ordering Information

Part No.	Description
UTC-WIFI-A4E	EWM-W163M201E 802.11ac/a/b/g/n 2T2R WIFI with BT 4.1 QCA6174A, M.2 2230

DeviceOn/iService

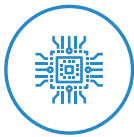**Unified Remote Device Management Software**

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

Client Devices ←— LAN —→ **DeviceOn Server** ←— Internet —→ **Browser**

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

Required Hardware

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