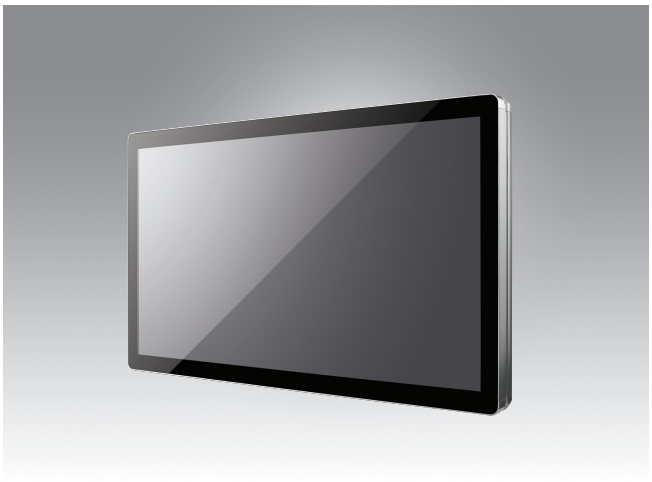
UTC-520 (IP66/69K)

21.5" Ubiquitous Touch Computer (IP66/69K)
UTC-520GT-ATB0E with Intel® Pentium® N4200
UTC-520FT-ATB0E with Intel® Skylake Core™ i5-6300U
UTC-520IT-ATB0E with Intel® Core™ i5-1145G7E
UTC-520JT-ATB0E with Intel® Celeron® J6412



Features

- 21.5" monitor with 16:9 widescreen display
- IP66/69K rated for full system
- Stainless chassis and Anti-corrosion enclosure
- M12 for all I/O ports
- Wide range system input rating, 11~32V
- Wide operating temperature range (-10 ~ 50 °C)
- Low power and fanless system design
- Supports both landscape and portrait screen orientations
- Full HD(1920x1080) brightness 1200 nits LCD panel(optional)
- Waterproof Wifi Solution (optional)
- Build in camera / LED indicter / Light sensor(optional)

Introduction

UTC-520 tough series 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.

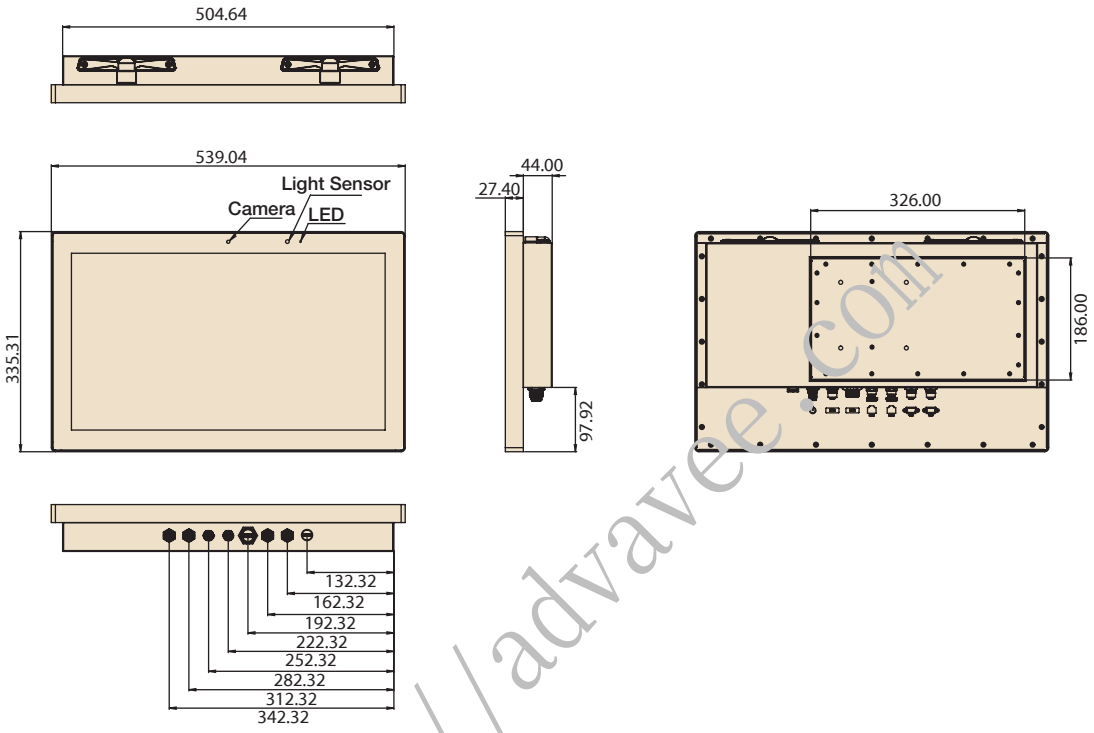
Specifications

Model		UTC-520GT-ATB0E	UTC-520IT-ATB0E	UTC-520JT-ATB0E
Processor System	CPU	Intel® Pentium® N4200	Intel® Core™ i5-1145G7E	Intel® Celeron® J6412
	Base Frequency	1.1 GHz (N4200/Quad-Core) 1.6 GHz (E3950/Quad-Core)	1.50/ 2.6 GHz/ Quad Core	2.0GHz
	Cache	L2 Cache 2MB	L3 Cache 8MB	1.5 MB L2 Cache
	Memory	1 x 204 pin SO-DIMM DDR3L 1867 MHz up to 8GB	2 x 260 pin SO-DIMM DDR4-3200 up to 64GB	DDR4-3200 up to 32GB
	HDD	1 x 2.5 internal SATA HDD bay		
	Network (LAN)	2 x Gigabit Ethernet ports (Supports Wake on LAN)		
	I/O ports	2 x RS-232 COM (RS-422/485)* 2 x USB 3.0, 1 x USB 3.0 2 x Gigabit Ethernet (RJ-45) (M12 waterproof connector)		
	Bus expansion	Full-size MiniPCIe / M.2	1 x M.2 E-Key 2230 (PCIe x 1, USB2.0, I2C) 1 x M.2 B-Key 3042 (USB2.0) w/ Nano-SIM 1 x M.2 M-Key 2280 (PCIe x4 Gen.4 for PCIe SSD), optional SATA	1x E-Key for wireless module (Type: 2230) optional B-Key for LTE module 1x M-Key support SATA M.2 2242 module
	Speaker	2x3W		
	Mounting	VESA 100 x 100 mm		
	Dimensions (W x H x D)	540 x 336 x 70 mm		
	Weight	10.5 kg (23.14lbs)		
OS Support		Win 10 IoT Enterprise Android 8.1 Linux Ubuntu 18.04	Win 10 IoT Enterprise Android	Win 10 IoT Enterprise Android
Environmental Specifications	Operating Temperature	-10 ~ 50 °C		
	Relative Humidity	95% @ 40 °C/104 °F, non-condensing		
	Vibration	0.5G		
	Shock	5G peak acceleration (11 msec. duration)		
	EMC/ Safety	CE, FCC, UL, CB		
	System Protection	IP66/69K full system		
Power Supply	System input rating	11V-32V		
	Adapter	24V / 5A		
	Power consumption	Typical 35W Max. 70W		
LCD Display	Size/Type	21.5" TFT LCD with LED backlight		
	Max.Resolution	1920 x 1080		
	Max. Color	16.7M		
	Pixel Pitch (um)	248.25 (H) x 248.25 (V)		
	Brightness (cd/m²)	250 Nits, Optional 500 and 1200 Nits Panel		
	View Angle	178°/178°		
	Camera	Optional		
	Light Sensor w LED Indicator	Optional		
Touch Screen Option (PE/GE)	Type	Projected Capacitive. Glass Panel (7H Hardness)		
	Cover Glass Surface Treatment	Optional (AR / AG / Vandal Proof)		
	Light Transmission	88% ± 2%		
	Controller	USB Interface		

Dimensions

Unit: mm

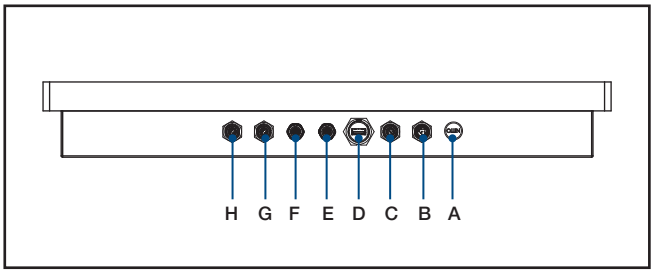
UTC-520GT-ATB0E



Ordering Information

Part No.	Description
UTC-520GT-ATB0E	21.5" PCT.T/S with Pentium J4200, 4GB RAM, 64G SSD, IP66/69K M12 connector AC 100-240Vac/DC output 24V, 5A adapter
UTC-520IT-ATB0E	21.5" PCT.T/S with i5-1145G7E, 8GB RAM, 128G SSD, iP66/69K M12 connector AC 100-240Vac/DC output 24V, 5A adapter
UTC-520JT-ATB0E	21.5" PCT.T/S with Intel® Celeron® J6412, 8GB RAM, 64GSSD, IP66/69K M12 connector AC 100-240Vac/DC output 24V, 5A adapter
1702002605	Power cord 2P FRANCE 10A/16A 220V 1.83M 90D
1702002600	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
1700000596	Power Cord (China) CCC,10A 250V, 3P 1.83M
1700018704	Power Cord UK BSI 2P 10A 250V 1.8M 18AWG
Y5AO520000	Cable M-DIN 4P(F)/waterproof 5P 1M
Y5AO520001	A cable RJ45-8P8C/waterproof 8P 1M
Y5AO520002	M cable waterproof /USB-A 4P*2 1M
Y5AO520003	M Cable USB-A 9P(F)/Waterproof USB 9P(M) 1M
Y5AO520004	M Cable 1*9 P D-SUB/waterproof 10P 1M

Fully- Integrated I/O (UTC-520 IP66/69K)



A. Exhaust Valve
B. Power Connector
C. USB 2.0 x 2
D. USB 3.0 x 1
E. LAN 1
F. LAN 2
G. COM 1
H. COM 2

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