

# UTC-520

## 21.5" Ubiquitous Touch Computer UTC-520A with AMD® G-Series T40E UTC-520B with Intel Atom Dual Core D2550 UTC-520C with Intel Core™ i7



### Features

- Low Power and Fanless Design
- Built-in AMD® G-Series T40E (UTC-520A)
- Built-in Intel Atom Dual Core D2550 (UTC-520B)
- Built-in Intel Core™ i7 (UTC-520C)
- Providing Natural Viewing Experience with 16:9 21.5" Display
- Front panel complies with IP65 protection standard
- All in one aluminum extrusion design
- Landscape & Portrait screen mode support by different applications
- VESA 100 mm standard mounting holes for varied mounting demands
- Attachable design for panel & peripherals to extend function and applications



### Introduction

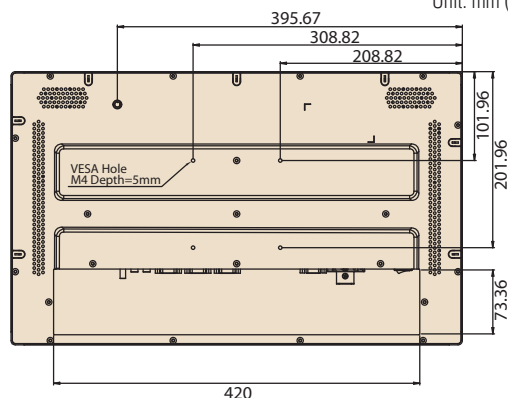
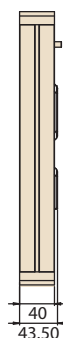
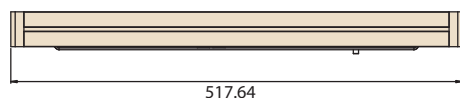
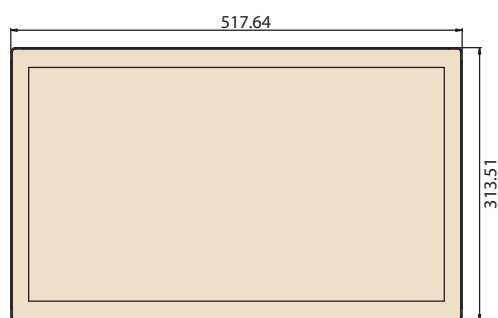
UTC-520 features an all-in-one computing system equipped with wide format, touch based LCD panel. It is easy to integrate key peripherals and display systems for diversified self-service and interactive signage deploy in different application areas. The systems deliver updated information with well-designed 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  | AMD® G-Series T40E Dual-core 1.0 GHz (UTC-520A)              | Intel Atom Dual Core D2550 1.8 GHz (UTC-520B) | Intel Core™ i7 3517UE 1.7 GHz (UTC-520C)        |
|                                | Chipset  | T40E + A50M  | Intel Atom D2550 + Intel NM10                 | Intel QM77                                      |
|                                | L2 Cache   | 512 KB   | 1 MB  | 1 MB (L3, 4MB)                                  |
|                                | Memory   | 1 x SO-DIMM DDR3 1066 MHz up to 4 GB                         | 1 x SO-DIMM DDR3 1066 MHz up to 4 GB          | 1 x SO-DIMM DDR3/DDR3L 1333/1600 MHz up to 8 GB |
|                                | SSD  | Support 1 x CFast  | Support 1 x CFast                             |   |
|                                | HDD  | 1 x 2.5 internal SATA HDD bay                                |   |   |
|                                | Network (LAN)  | 2 x Gigabit Ethernet ports                                   |   |   |
|                                | I/O Ports  | 3 x RS-232 COM (RS-422/485)*                                 | 3 x RS-232 COM (RS-422/485)*                  | 2 x RS-232 COM (RS-422/485)*                    |
|                                |  | 4 x USB 2.0  | 4 x USB 2.0                                   | 2 x USB 2.0, 2 x USB 3.0                        |
|                                |  | 2 x Gigabit Ethernet (RJ-45)                                 | 2 x Gigabit Ethernet (RJ-45)                  | 2 x Gigabit Ethernet (RJ-45)                    |
| Stereo Speaker                 | 1 x VGA & HDMI   | 1 x VGA & HDMI   | 1 x VGA & HDMI                                |   |
|                                | Audio Line-out x 1, Mic-in x 1                         | Audio Line-out x 1, Mic-in x 1                               | Audio Line-out x 1, Mic-in x 1                |   |
| Bus expansion                  | Full-size MiniPCIe/mSATA                               |  |   |   |
| Dimensions (W x H x D)         | 517.64 x 313.51 x 43.50 (mm) (20.38" x 12.34" x 1.71") |  |   |   |
| Weight                         | 8 kg (17.6 lb)   |  |   |   |
| OS Support                     |  | Windows XP/ XPE/ Embedded 7 Embedded Windows 8               | Embedded Windows 7 32bit                      | Windows XP/ XPE/ Embedded 7 Embedded Windows 8  |
|                                |  |  |   |   |
| Environmental Specifications   | Operating Temperature                                  | 0 ~ 40° C (32 ~ 104° F)                                      |   |   |
|                                | Relative Humidity                                      | 10 ~ 95% @ 40° C non-condensing                              |   |   |
|                                | Vibration  | 0.5G   |   |   |
|                                | Shock  | 5G peak acceleration (11 msec. duration)                     |   |   |
|                                | Certification  | CE, FCC, UL, CB, CCC, BSMI                                   |   |   |
| Front Panel Protection         | IP65/ NEMA4 Compliant                                  |  |   |   |
| Power                          | Input Rating   | 12 V/5 A (60 W ITE Adapter)                                  |   | 12 V/7 A (84 W ITE Adapter)                     |
|                                | Power consumption                                      | Typical 32W<br>Max. 40W                                      |   | Typical 45W<br>Max. 65W                         |
| LCD Display                    | Size/Type  | 21.5" TFT LCD with LED backlight                             |   |   |
|                                | Max. Resolution  | 1920 x 1080  |   |   |
|                                | Max. Color   | 16.7 M   |   |   |
|                                | Pixel Pitch (mm)                                       | 248.25 (H) x 248.25 (V)                                      |   |   |
|                                | Brightness (cd/m <sup>2</sup> )                        | 250 (Optional 400)   |   |   |
| View Angle                     | 178°/178°  |  |   |   |
| Touch Screen Option (PE/RE/GE) | Type   | Projected Capacitive. Analog Resistive 5-wires / Glass Panel |   |   |
|                                | Light Transmission                                     | 90% ± 2% / 80% ± 5% / 90%                                    |   |   |
|                                | Controller   | USB Interface / USB Interface / -                            |   |   |

## Dimensions

Unit: mm (inch)



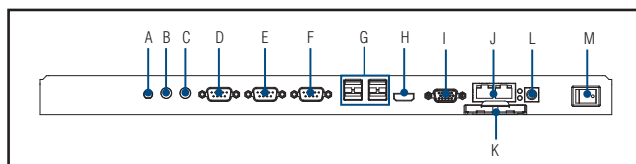
## Ordering Information

| Part No.    | Description   |
|-------------|---|
| UTC-520A-RE | 21.5" AMD T40E Based fanless UTC with Resi.T/S. 4 GB RAM      |
| UTC-520A-PE | 21.5" AMD T40E Based fanless UTC with PCT.T/S. 4 GB RAM       |
| UTC-520A-GE | 21.5" AMD T40E Based fanless UTC with Glass. 4 GB RAM         |
| UTC-520B-RE | 21.5" ATOM D2550 Based fanless UTC with Resi.T/S. 4 GB RAM    |
| UTC-520B-PE | 21.5" ATOM D2550 Based fanless UTC with PCT.T/S. 4 GB RAM     |
| UTC-520B-GE | 21.5" ATOM D2550 Based fanless UTC with Glass. 4 GB RAM       |
| UTC-520C-RE | 21.5" Intel Core i7 Based fanless UTC with Resi.T/S. 4 GB RAM |
| UTC-520C-PE | 21.5" Intel Core i7 Based fanless UTC with PCT.T/S. 4 GB RAM  |
| UTC-520C-GE | 21.5" Intel Core i7 Based fanless UTC with Glass. 4 GB 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  | Power Cord (China) CCC,10A 250V, 3P 1830mm                    |
| 1700018704  | Power Cord UK BSI 2P 10A 250V 180cm 18AWG                     |

Side groove design for Flexible peripheral device



## Fully- Integrated I/O



- |   |                            |
|---|----------------------------|
| A. Antenna Port   | H. HDMI                    |
| B. Line-out   | I. VGA                     |
| C. Mic-in   | J. LAN Ports x 2           |
| D. COM3 (UTC-520A/B only)                                 | K. CFast (UTC-520A/B only) |
| E. COM2   | L. DC Input                |
| F. COM1   | M. Power switch            |
| G. USB 2.0 x 4<br>(USB 2.0 x 2, USB 3.0 x 2 for UTC-520C) |                            |

## 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-A0E | RFID Reader For UTC-5XX (USB connection)                 |
| UTC-P06-A0E | Smart Card Reader For UTC-5XX (USB connection)           |
| UTC-P07-A1E | 1D/2D Barcode Reader For UTC-5XX (USB Connection)        |
| UTC-P21-A0E | 4 in 1 Modules Barcode reader + RFID + Card reader + MSR |

## Installation Accessory

| Part No.         | Description  |
|------------------|--|
| UTK-500F-A0E     | Floor stand with SNBC BTP-U81 thermal printer (for China only) |
| UTK-500S-A0E     | Floor stand without thermal printer                            |
| UTK-500G-A0E     | Floor stand with thermal printer bracket                       |
| UTC-520-STAND1E  | Desktop stand for UTC-515/520                                  |
| UTC-H01-STANDE   | H-shaped floor stand   |
| UTC-T01-STANDE   | Triangle shape floor stand                                     |
| UTC-WALL-MOUNT1E | Wall Mount kit for UTC-515/520                                 |
| UTC-WALL-MOUNT3E | Wall Mount kit for UTC-515/520                                 |