

# Ubiquitous Touch Computers

Strong, Steady, and Reliable

Industrial Ubiquitous Touch Computers applied in

- ✓ Control Room Terminals
- ✓ Production Line Terminals
- ✓ Industrial Digital Signage
- ✓ Public Service Terminals
- ✓ Showroom Interactive Signage



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# Comprehensive and Stylish Touch Computers for a Broad Range of Application Needs

UTC-Series products deliver aesthetically-designed, all-in-one touch panel solutions suitable for many applications including control room Industrial PCs, production line industrial digital signage, showroom interactive signage, self-service kiosks, and public service terminals. They also fulfill many digital retail and hospitality service needs such as in healthcare, vending, education, entertainment and information handling. They are beautiful, durable, and reliable. The systems perform extremely well, with advanced touchscreen technology, wireless support, customized peripherals, rich I/O features, protective covers, and a full-range of installation accessories.



## Operating System Support



# Design Features for Vertical Market Success

Interactive technology gives customers access to dynamic, real-time information, serving them better and keeping businesses competitive by allowing them to present branded content 24 hours a day, 7 days a week. Full HD capability motivates and increases customer awareness. UTC is slim with a pure-flat display and a noise-free, fanless design; it is customizable to meet specific needs and it supports a choice of embedded Linux or embedded Windows® 7/8 operating systems.



## 7H Hardness

7H Hardness for better durability



## Fanless System

Fanless technology eliminates dust, grease, moisture and other contaminants



## Low Power Consumption

Low power consumption; offers great performance, reliability and compatibility



## High Dust And Liquid Resistance

IP65 protection standard



## Lower Maintenance Cost

Built for harsh environments and up to 3-5 years of RMA services



## Innovative Side Groove Design

Flexible, simple and compact design for attaching peripherals



## Complete Range of LCD Sizes

Three panel sizes: 15.6" / 21.5" / 32"

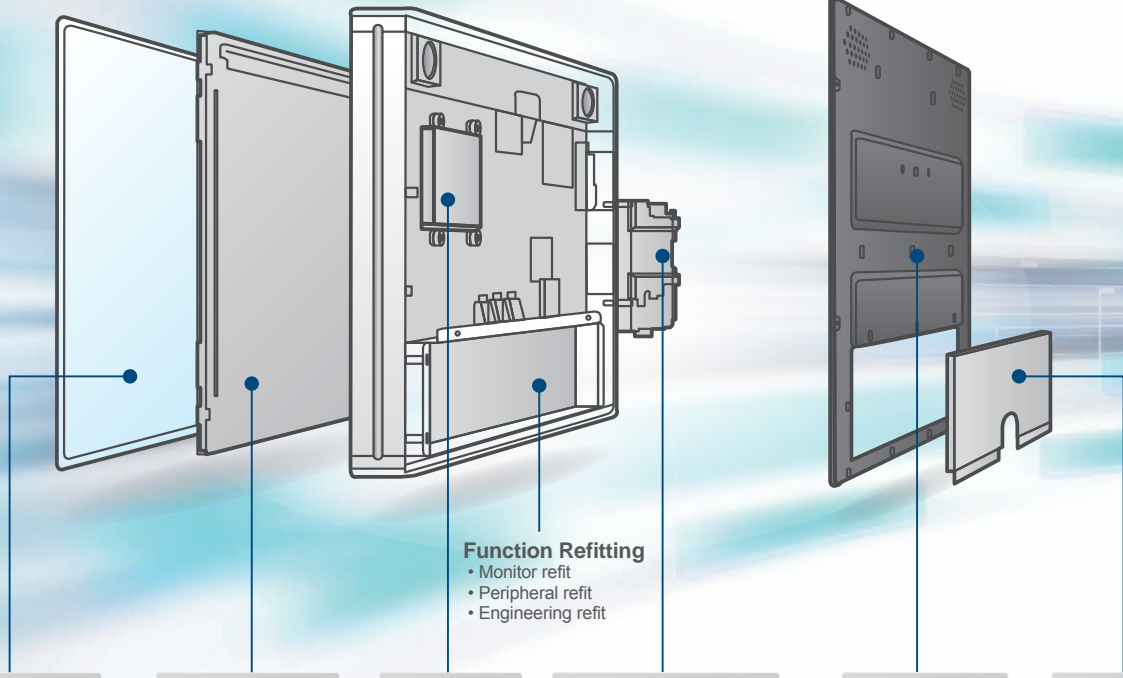


## Portrait & Landscape Modes

16:9 True Flat; can display in both portrait and landscape mode



# Enjoy the Benefits of Easy Customization



**Function Refitting**

- Monitor refit
- Peripheral refit
- Engineering refit

## Touch Panel

- Touch Customization**
- Enhanced Durability
  - Enhanced Coating (AR/AG/AS)
  - Multiple Touch
  - Corning Gorilla

## LCD Display

- LCD Customization**
- High Brightness, up to 1500 cd/m<sup>2</sup>
  - Wide View Coating, up to 89°
  - Optical Bonding

## HDD/SSD

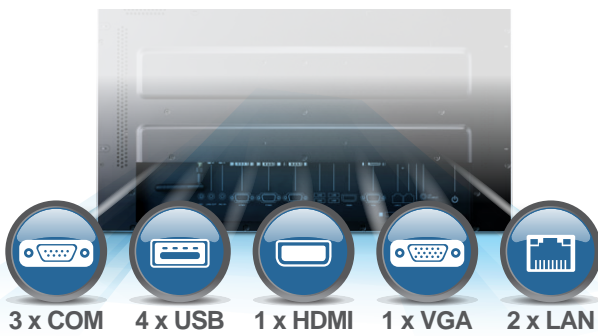
## MIO Main Board

- Computing Customization**
- Multiple HW/SW Platforms
  - WIFI /WLAN Option
  - Media Capture Option

## Rear Cover

## I/O Cover (Optional)

- Enclosure Customization**
- Open Frame Solution
  - Chassis Remodeling



## Rich I/O for Various Applications

- Up to 3 RS-232 COM ports
- 4 USB 2.0 ports ( or 2 USB 2.0 & 2 USB 3.0 option)
- 2 Gigabit Ethernet ports
- 1 VGA & HDMI video interfaces
- 1 Audio line-out & 1 mic-in



## 3 Touchscreen Options

- Projective Capacitive Touch Panel
- 5-wire Analog Resistive Touch Panel
- Glass with none touch function

# Industrial Touch Computers, Ubiquitous Applications

Advantech UTCs are industrial-grade touch computers suitable for use in industrial and ubiquitous applications. They provide the human interface to machine environments including control room management, production line counting, public self-services, and showroom interactive displays.



## Control Room Terminals

Intuitive operation with touchscreen provides reliable platform for:

- Operational & Dashboard Tracking
- Inventory Item Locator
- Product Showcase
- Asset Tracking
- KPI Dashboard Tracking



## Production Line Terminals

- 0° C ~ 40° C operating temperature range; fanless design
- Meets industrial requirements including IP65/ NEMA4 compliance; suitable for use in harsh environments
- Flexible system configuration providing digital I/O to legacy RS-232/422/485 COM ports
- User-friendly interface with several touchscreen options



## Public Service Terminals

- Public information display
- Real-time interactive signage
- Full range of peripherals; enjoy the benefits of easy customization
- Flexible installation with ergonomic designs including UTC-Kiosk, floor stands, table top stands, VESA mounting, in-wall & panel mounting



## Showroom Interactive Signage

- Powerful AMD G-Series T40E or Intel Core i7 graphic engine to support HD video up to 1080p
- Real-time information display with multimedia presentation
- Multi-touch compatibility with projected capacitive touch panel
- Reliability and stability

# A Full-range of Peripherals & Installation Accessories

## Ergonomic choice of Table Top, Floor Stand & Wall Mount



UTC-WALL-MOUNT1E  
**VESA 75/100 mm**

- Firmly fix to a solid wall
- Weight Capacity up to 14kg
- Material: Steel
- Rotation: 270° for portrait or landscape viewing
- Tilt: 180° up and down
- Lift: 130.5 mm
- For UTC-515/520



UTC-WALL-MOUNT2E  
**VESA 100/200 mm**

- Flush fit without movement
- Weight Capacity up to 35kg
- Material: Steel
- Sits: 42.5 mm from the wall
- For UTC-532 only



UTC-WALL-MOUNT3E  
**VESA 75/100mm**

- Firmly fix to a solid wall
- Weight capacity up to 20 kg
- Material: Steel
- Sits: 27mm from the wall
- For UTC-515/520



UTC-T01-STANDE  
**Triangle shape floor stand**

- Organized cable management
- VESA 75/100mm
- Height: 120cm
- Easily tilt for best viewing comfort
- Dimension: : Ø660 mm
- Weight: 10kg



UTC-H01-STANDE  
**H-shape floor stand**

- Organized cable management
- VESA 75/100mm
- Height: 120cm
- Easily tilt for best viewing comfort
- Dimension: : Ø660 mm
- Weight: 10kg
- Acrylic signboard is excluded



UTC-520-STAND1E  
**VESA 100 mm**

- 40 x 47 x 169 mm
- 45° viewing angle
- For UTC-515/520

## Peripherals



**UTC-P01-A1E**  
2M Camera Module

- Auto focusing on 40-80 cm
- Video format: YUY2, MJPEG
- USB connection to UTC



**UTC-P02-A0E**  
Magnetic Stripe Card Reader

- Card standard: ANSI, ISO, ABA
- Read speed: 1-60 IPS
- Head life: 1,000,000 times
- USB connection to UTC
- RS-232 optional



**UTC-P03-A0E**  
NFC/RFID Module

- 13.56 MHz frequency
- Read mode: ISO 15693 / 14443A / B / 18000-3 / Felica
- Reading range: 3 +/- 1 cm



**UTC-P06-A0E**  
Smart Card Reader Module

- User card friction type (ID-1), 200,000 cycles
- SAM card: 5000 insertions
- Compliant CPU card and memory card



**UTC-P07-A1E**  
Barcode Module

- 2D mode scan rate : 53 frames / sec
- Reads 1D, 2D and postal codes plus stacked and composite codes
- Capture Formats: BMP, JPEG, TIFF; Greyscale: 256
- Resolution : 752 x 480 pixels



**UTC-P21-A0E**  
RFID + Barcode Scanner + Smart Card Reader + MSR

- Dimensions: 300 x 35 x 40 mm
- USB connection to UTC

## Ordering Information

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

Part No.	Description
UTC-WALL-MOUNT1E	Wall Mount Kit for UTC-515/520
UTC-WALL-MOUNT2E	Wall Mount Kit for UTC-532
UTC-WALL-MOUNT3E	Wall Mount Kit for UTC-515/520
UTC-T01-STANDE	Triangle Shape floor stand
UTC-H01-STANDE	H-Shape floor stand
UTC-520-STAND1E	Table Top Stand for UTC515/520

# Advantech UTC Portfolio



Model Name		UTC-515			UTC-520			UTC-532	
Description		15.6" Ubiquitous Touch Computer			21.5" Ubiquitous Touch Computer			32" Ubiquitous Touch Computer	
Model		UTC-515A	UTC-515B	UTC-515C	UTC-520A	UTC-520B	UTC-520C	UTC-532A	UTC-532C
System	CPU	AMD G-Series T40E Dual-core 1.0 GHz	Intel Atom Dual Core D2550 1.8 GHz	Intel Core i3 3217UE 1.6 GHz	AMD G-Series T40E Dual-core 1.0 GHz	Intel Atom Dual Core D2550 1.8 GHz	Intel Core i7 3517UE 1.7 GHz	AMD G-Series T40E Dual-core 1.0 GHz	Intel Core i7 3517UE 1.7 GHz
	Chipset	T40E + A50M	Intel Atom D2550 + Intel NM10	Intel QM77	T40E + A50M	Intel Atom D2550 + Intel NM10	Intel QM77	T40E + A50M	Intel QM77
	L2 Cache	512 KB	1 MB	1 MB (L3, 3 MB)	512 KB	1 MB	1 MB (L3, 4 MB)	512 KB	1 MB (L3, 4 MB)
	Memory	1 x SODIMM DDR3 1066 MHz up to 4 GB	1 x SODIMM DDR3 1066 MHz up to 4 GB	1 x SODIMM DDR3 1600 MHz up to 8 GB	1 x SODIMM DDR3 1066 MHz up to 4 GB	1 x SODIMM DDR3 1066 MHz up to 4 GB	1 x SODIMM DDR3 1600 MHz up to 8 GB	1 x SODIMM DDR3 1066 MHz up to 4 GB	1 x SODIMM DDR3 1600 MHz up to 8 GB
	Storage	1 x 2.5 internal SATA HDD bay			1 x 2.5 internal SATA HDD bay			1 x 2.5 internal SATA HDD bay	
Display	Size	15.6" TFT LCD			21.5" TFT LCD			32" TFT LCD	
	Max Resolution	1366 x 768			1920 x 1080			1920 x 1080	
	Brightness(cd/m2)	300			250 (Optional 400)			300	
	Max Color	262 K			16.7 M			16.7 M	
	Pixel Pitch (um)	248.25 (H) x 248.25 (V)			248.25 (H) x 248.25 (V)			363.75 (H) x 363.75 (V)	
	View Angle	170°/160°			178°/178°			178°/178°	
Touchscreen	Type	Glass Panel (No touch function) Analog Resistive 5-wire (Res. Flat Glass) Projected Capacitive Touch Panel (Pcap. Flat Glass)			Glass Panel (No touch function) Analog Resistive 5-wire (Res. Flat Glass) Projected Capacitive Touch Panel (Pcap. Flat Glass)			Glass Panel (No touch function) Projected Capacitive Touch Panel (Pcap. Flat Glass)	
	Light Transmission	Glass : 90% Res. Touch : 80% ± 5% P-Cap Touch : 90% ± 2%			Glass : 90% Res. Touch : 80% ± 5% P-Cap Touch : 90% ± 2%			Glass : 90% P-Cap Touch : 90% ± 2%	
	Controller	Glass : none Res. Touch : USB P-Cap Touch : USB			Glass : none Res. Touch : USB P-Cap Touch : USB			Glass : none P-Cap Touch : USB	
I/O	USB	4 x USB 2.0	4 x USB 2.0	2 x USB 2.0 2 x USB 3.0	4 x USB 2.0	4 x USB 2.0	2 x USB 2.0 2 x USB 3.0	4 x USB 2.0	2 x USB 2.0 2 x USB 3.0
	COM Ports	3 x RS-232		2 x RS-232	3 x RS-232		2 x RS-232	3 x RS-232	2 x RS-232
	VGA & HDMI	1			1			1	
	BUS expansion	Full-size MiniPCIe/mSATA			Full-size MiniPCIe/mSATA			Full-size MiniPCIe/mSATA	
Network	LAN	2 x Gigabit Ethernet ports (RJ-45)			2 x Gigabit Ethernet ports (RJ-45)			2 x Gigabit Ethernet ports (RJ-45)	
	WLAN	Optional			Optional			Optional	
Audio	Speaker	1W x 2			3W x 2			3W x 2	
	Audio Line-out	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	
Mechanical	Dimensions (WxHxD)	389.81 x 240.12 x 45.20 mm			517.64 x 313.51 x 43.50 mm			785.64 x 480.24 x 62.50 mm	
	Weight	4.85 kg (10.67 lbs.)			8 kg (17.6 lbs.)			18 kg (39.6 lbs.)	
	Mounting	VESA 100 mm standard			VESA 100 mm standard			VESA 200 mm standard	
Environmental Specifications	Operating Temperature	0 ~ 40° C (32 ~ 104° F)			0 ~ 40° C (32 ~ 104° F)			0 ~ 40° C (32 ~ 104° F)	
	Relative Humidity	10 ~ 95% @ 40° C non-condensing			10 ~ 95% @ 40° C non-condensing			10 ~ 95% @ 40° C non-condensing	
	Vibration	0.5G			0.5G			0.5G	
	Shock	10 G peak acceleration (11 msec. duration)			10 G peak acceleration (11 msec. duration)			10 G peak acceleration (11 msec. duration)	
	EMC/ Safety	CE, FCC, UL, CCC, CB, BSMI			CE, FCC, UL, CCC, CB, BSMI			CE, FCC, UL, CCC, CB, BSMI	
	Front Panel Protection	IP65/ NEMA4 Compliant			IP65/ NEMA4 Compliant			IP65/ NEMA4 Compliant	
Power Supply	Input Rating	12 V/5 A (60W ITE Adapter)		12 V/5 A (60W ITE Adapter)	12 V/5 A (60W ITE Adapter)		12 V/7 A (84W ITE Adapter)	100-240V, 3.15A Max. 50 ~ 60 Hz	
	Power Consumption	Typical 32W Max. 40W		Typical 40W Max. 50W	Typical 32W Max. 40W		Typical 45W Max. 65W	Typical 95W Max. 105W	
OS Support		Windows XP/ XPE/ Embedded 7 Embedded Windows 8 Embedded Linux 3.0	Embedded Windows 7 32-bit	Windows XP/ XPE/ Embedded 7 Embedded Windows 8 Embedded Linux 3.0	Windows XP/ XPE/ Embedded 7 Embedded Windows 8 Embedded Linux 3.0	Embedded Windows 7 32-bit	Windows XP/ XPE/ Embedded 7 Embedded Windows 8 Embedded Linux 3.0	Windows XP/ XPE/ Embedded 7 Embedded Windows 8 Embedded Linux 3.0	

## Ordering Information

Part No.	Description
UTC-515A-RE	15.6" AMD T40E Based fanless UTC with Resi.T/S. 4 GB RAM
UTC-515A-PE	15.6" AMD T40E Based fanless UTC with PCT.T/S. 4 GB RAM
UTC-515B-RE	15.6" ATOM D2550 Based fanless UTC with Resi.T/S. 4 GB RAM
UTC-515B-PE	15.6" ATOM D2550 Based fanless UTC with PCT.T/S. 4 GB RAM
UTC-515C-RE	15.6" Intel Core i3 Based fanless UTC with Resi.T/S. 4 GB RAM
UTC-515C-PE	15.6" Intel Core i3 Based fanless UTC with PCT.T/S. 4 GB RAM
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

Part No.	Description
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-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-532A-PE	32" AMD T40E Based fanless UTC with PCT.T/S. 4 GB RAM
UTC-532C-PE	32" Intel Core i7 Based fanless UTC with PCT.T/S. 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

Glass panel option (non-touch) available upon request



# Strong, Steady, and Reliable



Industrial-grade products at competitive cost



ISO-certified products



Global logistics and customer services with local support



Product longevity up to 3-5 years, and superior warranty service options



Leadership & Partnership

## Regional Service & Customization Centers

<b>China</b> Kunshan 86-512-5777-5666	<b>Taiwan</b> Taipei 886-2-2792-7818	<b>Netherlands</b> Eindhoven 31-40-267-7000	<b>Poland</b> Warsaw 48-22-33-23-730	<b>USA</b> Milpitas, CA 1-408-519-3800
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## Worldwide Offices

### Greater China

<b>China</b>	
Toll Free	800-810-0345
Beijing	86-10-6298-4346
Shanghai	86-21-3632-1616
Shenzhen	86-755-8212-4222
Chengdu	86-28-8545-0198
Hong Kong	852-2720-5118
<b>Taiwan</b>	
Toll Free	0800-777-111
Rueiguang	886-2-2792-7818
Yang Guang	886-2-2792-7818
Xindian	886-2-2218-4567
Taichung	886-4-2378-6250
Kaohsiung	886-7-229-3600

### Asia Pacific

<b>Japan</b>	
Toll Free	0800-500-1055
Tokyo	81-3-6802-1021
Osaka	81-6-6267-1887
<b>Korea</b>	
Toll Free	080-363-9494
Seoul	82-2-3663-9494
<b>Singapore</b>	
Singapore	65-6442-1000
<b>Malaysia</b>	
Toll Free	1800-88-1809
Kuala Lumpur	60-3-7724-3555
Penang	60-4-397-3788
	60-4-397-4188
<b>Thailand</b>	
Bangkok	66-2-248-3140
<b>India</b>	
Toll Free	1800-425-5071
Bangalore	91-80-2545-0206
<b>Indonesia</b>	
Jakarta	62-21-751-1939
<b>Australia</b>	
Toll Free	1300-308-531
Melbourne	61-3-9797-0100
Sydney	61-2-9477-2521

### Europe

Toll Free	00800-2426-8080
<b>Germany</b>	
Munich	49-89-12599-0
Hilden	49-2103-97-885 -0
<b>France</b>	
Paris	33-1-4119-4666
<b>Italy</b>	
Milano	39-02-9544-961
<b>Benelux &amp; Nordics</b>	
Breda	31-76-5233-100
Roosendaal	31-165-550-505
<b>UK</b>	
Reading	44-0118-929-4540
<b>Poland</b>	
Warsaw	48-22-33-23-740 / 741
<b>Russia</b>	
Toll Free	8-800-555-01-50
Moscow	7-495-232-1692

### Americas

<b>North America</b>	
Toll Free	1-888-576-9668
Cincinnati	1-513-742-8895
Milpitas	1-408-519-3898
Irvine	1-949-420-2500
<b>Brazil</b>	
Toll Free	0800-770-5355
Saude-São Paulo	55-11-5592-5355

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