

MTC-2021

21.5" Fanless Multi-Touch Computer with Quad Core Intel® Atom™ E3845 Processor (Bay Trail), 2 Gigabit LAN, 6 COM with 2 Isolated RS-232/ 422/ 485, 1 USB 3.0, 2 USB 2.0, 8 GPIO



Features

- 21.5" 16 : 9 Full HD (1920 x 1080) LCD Panel with LED Backlight
- Projected Capacitive 10-point Multi-Touch Screen with 7H Anti-Scratch Surface
- Fanless, Quad Core Intel® Atom™ E3845 Processor (Bay Trail)
- 9V to 28V DC Power Input
- 2 Gigabit LAN, 1 USB 3.0, 2 USB 2.0
- SIM Card Socket supports 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- 6 COM with 2 Isolated RS-232/ 422/ 485, 8 GPIO
- Touchscreen works with gloves
- Sunlight Readable (Optional)
- IP65 Front Panel Protection (Optional)



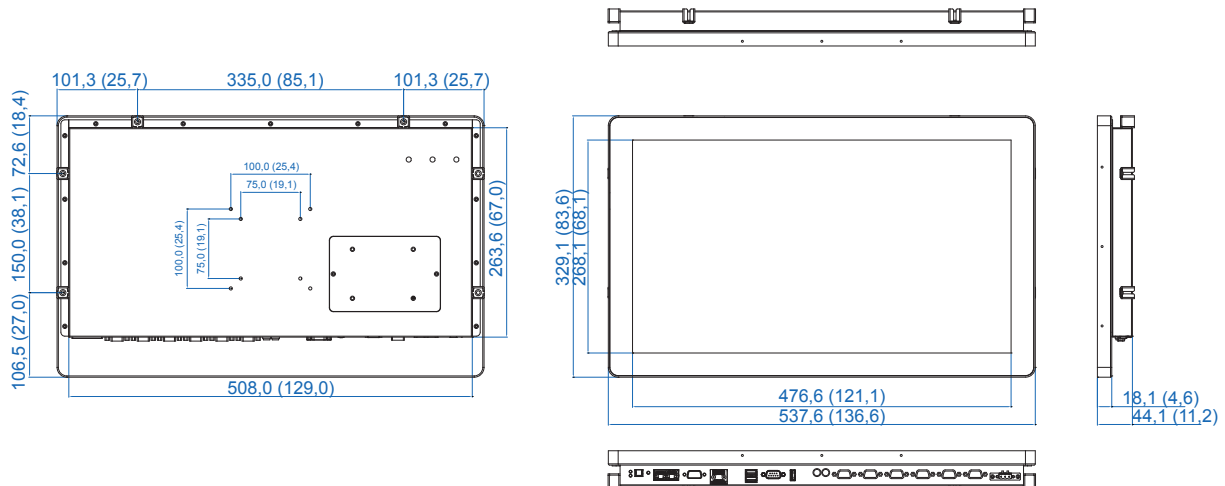
Specifications

Panel	
Panel Type	TFT LCD
Active Area	21.5" (16 : 9)
Max. Resolution	1920 x 1080 (Full HD)
Display Color	16.7M (RGB 8-bit)
Backlight	LED Backlight
Brightness (cd/m ²)	250 (Optional, up to 1200)
Viewing Angle	178°/178° (H/V)
Contrast Ratio	3000 : 1
Touch Screen	
Touch Screen Type	10-point Projected Capacitive
Transparency	≥ 85%
Surface Hardness	7H Surface Hardness
Control Interface	USB Interface
System	
Processor	Quad Core Intel® Atom™ E3845 Processor (1.91GHz, Bay Trail)
Chipset	Intel® SoC
Memory	1 DDR3L 1333 SO-DIMM, up to 8GB
Graphics	Intel® HD Graphics
Ethernet	2 Intel® 82574L Gigabit LAN
Audio	Realtek ALC892, 5.1 Channel HD Audio
OS Support	Windows 8, Windows 7, Linux
I/O Interface	
Serial	6 External COM : ▪ 2 COM RS-232/ 422/ 485 ▪ 2 COM RS-232 ▪ 2 Isolated COM RS-232/ 422/ 485
USB	▪ 1 USB 3.0 ▪ 2 USB 2.0
DIO	8 GPIO
LAN	2 Independent Gigabit LAN
Audio	1 Mic-in, 1 Line-out
Display	▪ VGA : Up to 2560 x 1600 ▪ HDMI : Up to 1920 x 1080
LED	Power, HDD
SIM Card	1 Internal SIM Card Socket

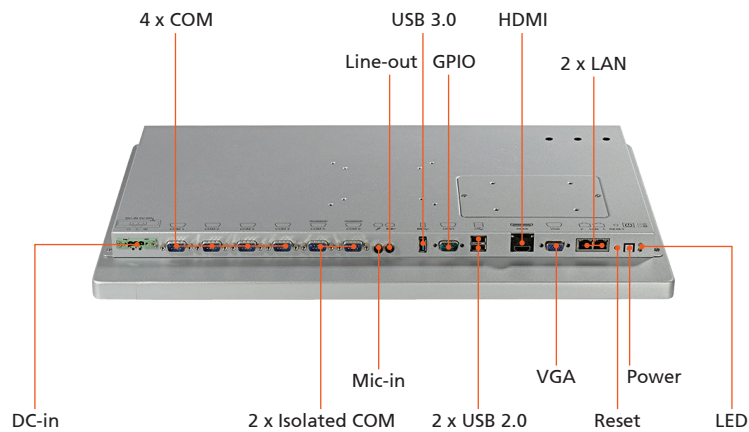
Expansion	
Mini PCIe	3 Mini PCIe Socket : ▪ 1 Mini PCIe for PCIe/ USB/ SIM Card ▪ 1 Mini PCIe for PCIe/ USB ▪ 1 Mini PCIe for mSATA
Storage	
SATA	1 SATA II (3Gbps)
mSATA	1 SATA II (Mini PCIe Type, 3Gbps)
Storage Device	1 Internal 2.5" SSD/ HDD Bracket
Power	
Power Input	9V to 28V, DC-in
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Power Adapter	AC to DC 60W Power Adapter (Optional)
Others	
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Management	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
GPS	Onboard GPS Module (Optional)
Mechanical	
Dimensions (W x H x L)	537.6mm x 329.1mm x 44.1mm (21.2" x 13" x 1.7")
Weight	5.8 kg (12.8 lb)
Front Panel Protection	IP65 Compliant (Optional)
Mounting	▪ VESA Mount (75 x 75mm, 100 x 100mm) ▪ Panel Mount
Environment	
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	10% to 90% Humidity, non-condensing
Shock	▪ IEC 60068-2-27 ▪ 20G, Half-sine, 11ms
Vibration	▪ IEC 60068-2-64 ▪ Non-operation : 10Hz to 200Hz, 1.5Grms, X, Y, Z, 30 mins each Axis
EMC	CE, FCC

Dimensions

Unit : mm/ inch



I/O



Order Information

MTC-2021	MTC-2021 21.5" Fanless Multi-Touch Computer, 2 GbE LAN, 6 COM with 2 Isolated, 3 USB, GPIO, Onboard Quad Core Intel® Atom™ E3845
DDR3L4G	Certified DDR3L-1600 4G RAM
DDR3L8G	Certified DDR3L-1600 8G RAM
PWA-60WP3B	60W, 24V/2.5A 100V AC to 240V AC Power Adapter for 3-pin 5.0mm Terminal Block
Panel-Mount	Panel Mount Kit
VESA Stand	VESA Table Stand
3G Module	Mini PCIe 3G/GPS Module with Antenna
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth Module	Intel® Mini PCIe WiFi & Bluetooth Module with Antenna

1

High Performance
Embedded System

2

Expandable
Embedded System

3

Ultra Compact
Embedded System

4

Multi-Touch
Computer/ Display

5

Frame
Grabber