MTC-4021

21.5" Fanless Multi-Touch Computer, 5th Gen Intel® Core™ i7/ i5/ i3 U-Series Processor (Broadwell-U) with 4 Gigabit PoE⁺ LAN ports

Full HD 1080p | **IP 65** | **A** | **TPM** | **SIM** | **PoE** | **80V** | **6V~36V**

- **21.5" 16:9 Full HD LCD panel with LED backlight**
- **Projected Capacitive 10-point Multi-touch Screen with 7H anti-scratch surface**
- **Touchscreen works with gloves**
- **Sunlight Readability Requirements (Optional)**
- **IP65 Front Panel Protection (Optional)**

- **Fanless, 5th Gen Intel® Core™ i7/ i5/ i3 U-Series Processor (Broadwell-U)**
- **6 GbE LAN : 4 PoE⁺, 2 GbE LAN**
- **2 SIM Card sockets for 3G/ 4G/ WiFi/ GPRS/ UMTS**
- **6V to 36V DC-in, 80V Surge Protection**
- **External CFast Slot, 2 USB 3.0, 2 USB 2.0, 4 COM**

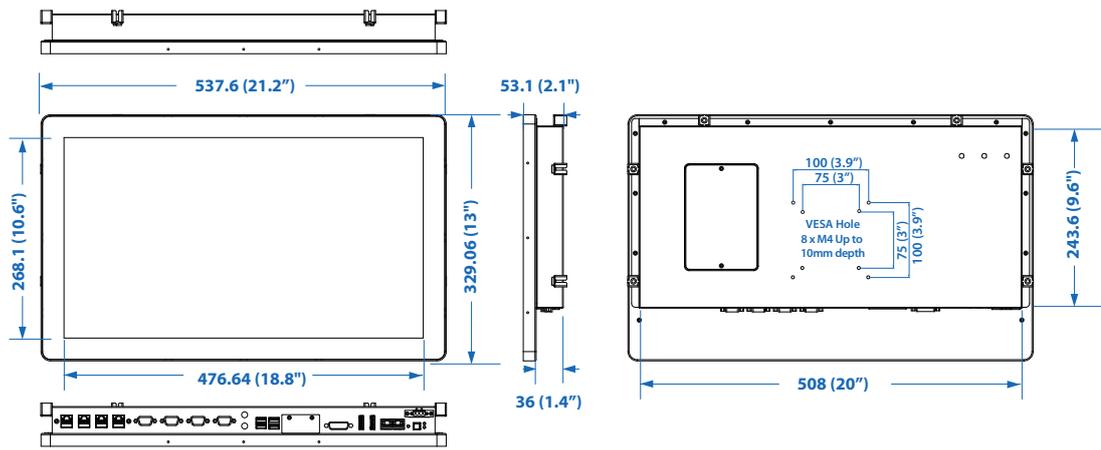| Medical	Industrial Automation	Infotainment System	Self-service	Transportation

FC **CE** **RoHS**

Vecow

Dimensions & Drawing

Unit: mm (inch)

537.6 (21.2") · 53.1 (2.1") · 268.1 (10.6") · 329.06 (13") · 476.64 (18.8") · 36 (1.4") · 508 (20") · 243.6 (9.6")

100 (3.9") · 75 (3") · VESA Hole 8 x M4 Up to 10mm depth · 75 (3") · 100 (3.9")

Specifications

Panel

Type	a-Si TFT-LCD
Viewable Size	21.5" (16:9)
Resolution	1920 x 1080 (Full HD)
Display Color	16.7 M (RGB 8-bit)
Backlight	LED
Brightness (cd/m2)	250 (Optional, Up to 1200)
Viewing Angles	89/89/89/89 (L/R/U/D)
Contrast Ratio	3000:1

Touch Screen

Type	10 points Projected Capacitive
Transparency	$\geqq$ 85%
Surface Hardness	7H
Control Interface	USB

System

Processor	5th Generation Intel® Core™ i7/ i5/ i3 U-Series Processor (Broadwell-U)
SIO	IT8786E
Memory	2 DDR3L 1333/ 1600 MHz SO-DIMMs, up to 16GB
Display	• DVI-D : Up to 2560 x 1600 @ 60Hz
	• DisplayPort : Up to 3840 x 2160 @ 60Hz
Audio	1 Mic-in, 1 Line-out
Software Support	Windows 8, Windows 7, Linux

I/O Interface

Serial	4 COM RS-232/ 422/ 485
USB	• 2 USB 3.0
	• 2 USB 2.0
LAN 1	Intel® I218 Gigabit LAN supports iAMT 9.5
LAN 2	Intel® I210 Gigabit LAN
LAN 3	Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210 (MTC-4021-PoE Only)
LAN 4	Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210 (MTC-4021-PoE Only)
LAN 5	Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210 (MTC-4021-PoE Only)
LAN 6	Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210 (MTC-4021-PoE Only)

Storage

SATA HDD	1 SATA III (6Gbps)
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)
Expansion	1 CFast Slot, Push-in/ Push-out Ejector

Expansion

SIM Card	• 2 SIM Card sockets (External)
Mini PCIe Slot	• 2 Mini PCIe sockets :
	- 1 supports PCIe/ USB/ External SIM
	- 1 supports PCIe/ USB/ External SIM/ mSATA
	• 3 Pre-cast holes for Antenna

Power

Input Voltage	3-pin Terminal Block; DC-in 6V to 36V
Power Adapter	AC to DC 120W power adaptor (Optional)
Surge Protection	Up to 80V/1ms Transient Power

Others

TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
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

Mechanical

Dimensions	MTC-4021-PoE: 537.6 x 329.06 x 53.1mm (21.2"x13"x2.1")
	MTC-4021-2G: 537.6 x 329.06 x 42.6mm (21.2"x13"x1.7")
Gross Weight	5.8 KG (12.8 lb)
IP Protection	Front Panel IP65 compliant (Optional)
Mounting	• VESA mount (75 x 75mm, 100 x 100mm)
	• Panel mount

Environment

Operating Temp.	0°C to 50°C (32°F to 122°F)
Storage Temp.	-20°C to 60°C (-4°F to 140°F)
Humidity	10% to 90% Humidity, non-condensing
Vibration	• IEC 60068-2-64
	• Non-operation : 10Hz to 200Hz, 1.5 Grms, X, Y, Z, 30 mins each Axis
Shock	• IEC 60068-2-27
	• 20G, Half-sine, 11ms
EMC	CE, FCC

Order Information

MTC-4021-PoE650U	• 21.5" Fanless Multi-Touch Computer with 5th Gen Intel® Core™ i7-5650U Processor (Broadwell-U), 4 PoE+ and 2 GbE LAN
MTC-4021-PoE350U	• 21.5" Fanless Multi-Touch Computer with 5th Gen Intel® Core™ i5-5350U Processor (Broadwell-U), 4 PoE+ and 2 GbE LAN
MTC-4021-2G650U	• 21.5" Fanless Multi-Touch Computer with 5th Gen Intel® Core™ i7-5650U Processor (Broadwell-U), 2 GbE LAN
MTC-4021-2G350U	• 21.5" Fanless Multi-Touch Computer with 5th Gen Intel® Core™ i5-5350U Processor (Broadwell-U), 2 GbE LAN
MTC-4021P	• 21.5" Fanless Multi-Touch Computer with 5th Gen Intel® Core™ i7/ i5 Processor (Broadwell-U), built with IP65

DDR3L8G	• Certified DDR3L 8G RAM
DDR3L4G	• Certified DDR3L 4G RAM
PWA-120W	• 120W, 24V, 90VAC to 264VAC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	• 160W, 24V, 85VAC to 264VAC Power Adaptor with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
Panel-Mount	• Panel mount Kit
VESA-Mount	• VESA Table Stand

MTC-4021-20150526

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