

TAICENN

TPC-DRM215K

21.5" widescreen Intel 7th-gen. Core i3/i5/i7 Slim Resistive Touch Industrial panel PC

Specification

Version 2.1

Key features:

- 21.5" Full HD, widescreen, 5-wires resistive touch;
- Intel 7th generation Kaby lake Core i3/i5/i7 processor;
- Impact & Slim, fan-less design, Finned heat sink;
- 2 * Intel GLAN, 2* COM, 4* USB, 1* HDMI;
- Operating temperature range, support 0°C~+60 °C
- **Front surface PET film laminated, true flat front panel;**
- **Optional** 10-points multi points projective capacitive touch.



Brief Introduction

TAICENN TPC-DRM215K series is high computing, Fan-less designed, enhanced stability and reliability industrial 21.5-inch Touch Panel PC product. It adapts Intel 7th –gen Core i3/i5/i7 processor. TPC-DRM215K series storage can support 2.5" SATA and mSATA interface, HDD or SSD. The design uses a high-temp. five-wires resistive touch, together with a specific PET film laminated to be true flat design. And it can fulfill front panel NEMA/IP65 dust-proof and water-proof standards.

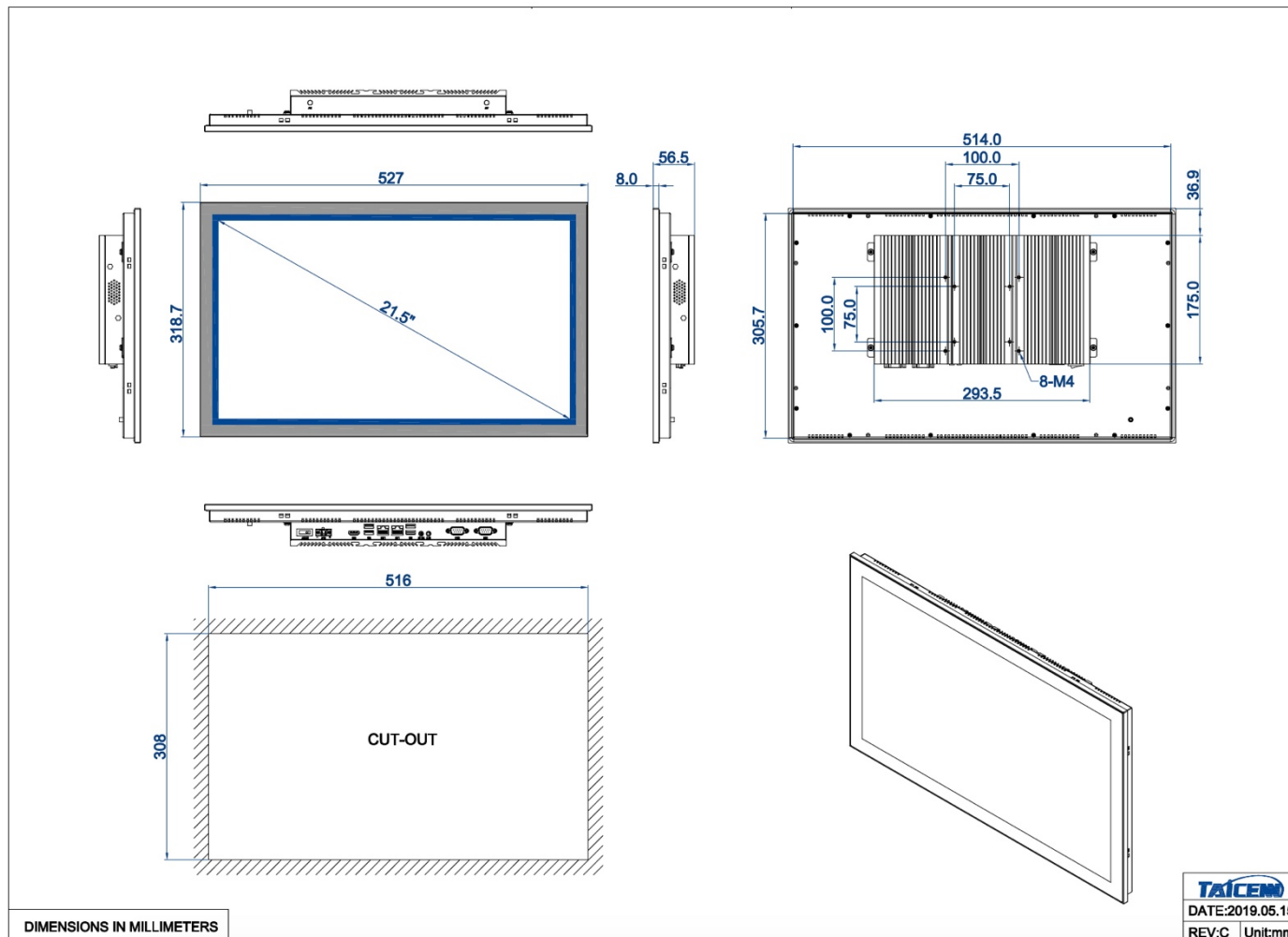
The TPC-DRM215K uses full-sealed box construction, and it can prevent dust from entering the device system, is compatible with Win7, Win8, Win embedded, WIN10, Linux OS, and it also has a good compatibility with customized applications and software programs.

Technical Data

System			
BIOS	SPI AMI EFI BIOS		
CPU	Intel Core i3-7100U	Intel Core i5-7200U	Intel Core i7-7500U
CPU Ghz	Dual-core Four threads, 2.4Ghz, TDP 15W	Dual-core Four threads, 2.5Ghz, Burst to 3.1Ghz, TDP 15W	Dual-core Four threads, 2.7Ghz, Burst to 3.5Ghz, TDP 15W
Memory	DDR4L, Max. up to 16GB		
Storage	1* 2.5" SATA + 1* mSATA		
Display	Support 1*HDMI output		
Watch dog	Programmable 1~255 seconds		
System	Win 7, Win8, Win embedded, WIN10, Linux, Unix		
I/O			
Network	2* Intel I211AT		
USB	3* USB 3.0 + 1* USB 2.0		
COM	2* RS232 (Surge and electrostatic protection) Optional with 1* RS485		
Audio	Realtek ACL 282 Audio controller		
Speaker	Optional 2x 2W (Default not included)		
Expansion	WIFI/3G/4G (1* Mini-PCle slot)		
Others	1x 2 pins Phoenix terminal, power switch		
LCD			
Size/Type	21.5" TFT LCD		
Resolution	1920 * 1080 Full HD		
Brightness	250 (cd/m ²)		
Brightness MTBF	WLED, 30 000 hours		

Display area	476.64 x 268.11
Viewing angle	89/89/89/89 (Typ.)
TOUCH	
Type	High-temp. precision 5 wires Resistive touch
Interface	USB (Optional RS232)
Transmittance	>80±3%
Resolution	4096 x 4096
Click life	250g/ 35 000 000 times
Response time	<15ms
Operating force	≤50g
Surface hardness	>Mohs 3H
Structure	
Front Panel	Magnesium-aluminum alloy, Anodizing treatment
Back Panel	SGCC Galvanized plate sheet, Sand-blasting
Cooling System	Finned aluminum heat-sinks, fan-less design
IP rating	IP65 front panel
Mounting	Panel mount, VESA 75/100
Product Dimension	527 x 318.7 x 56.5 (mm)
Cut-out Dimension	516 x 308
Net weight	7.10 KG
Power and Environmental	
Voltage Input	DC 12~24V (Over-current, Over-voltage and reverse polarity protection)
Power Consumption	About 45 W
Working temperature	0°C~+60 °C
Storage temperature	-20°C~+70 °C
Relative humidity	10~95%@10°C (No condensation)
Vibration	50~500Hz,1.5G,0.15mm peak to peak
Shock	10G/peak (11ms sec)

Dimension



Ordering Information

TPC-DRM215K1	21.5"/1920*1080/ Resistive Touch/ Core i3-7100U/2*GLAN/ 2*RS232/ 4* USB/ 1*HDMI, DC 12~24V Adapter
TPC-DRM215K2	21.5"/1920*1080/ Resistive Touch/ Core i5-7200U/2*GLAN/ 2*RS232/ 4* USB/ 1*HDMI, DC 12~24V Adapter
TPC-DRM215K3	21.5"/1920*1080/ Resistive Touch/ Core i7-7500U/2*GLAN/ 2*RS232/ 4* USB/ 1*HDMI, DC 12~24V Adapter
Memory	SO-DDR4L: 4G/8G/16G
Storage	SSD: 32GB/64GB/128GB/256GB/512GB/1TB
WiFi	IEEE 802.11n 150Mbps
3G/4G	All network 3G/4G Module
Speaker	2*2w speaker

Revision History

Date	Revision	Description
2018-01-03	V1.0	Initially release
2019-05-15	V2.0	Dimension layout update (Panel mount hole update) New Images update
2019-06-30	V2.1	CPU description update Add revision history content

TAICENN Technology

*TAICENN, is a leading global **solution provider** of Embedded Box IPC, Touch panel IPC and industrial monitor, which are designed specifically for systems and applications that require excellent performance, high-level reliability and stability, long supply period and supports.*

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