

TAICENN

TPC-PR170K

17.0" Intel 7th-gen. Core i3/i5/i7 P-CAP touch Panel mounting Panel PC

Specification

Version 2.1

Key features:

- 17.0" 1280*1024, 5-wires Resistive touch screen;
- Intel Kaby lake 7th generation Core i3/i5/i7 processor;
- Impact, fan-less design, Finned heat sink;
- 2 * Intel GLAN, 6*USB, 6*COM, 1*HDMI, 1*VGA;
- **Front surface PET film laminated, true flat front panel;**
- **Optional** 10-points multi points projective capacitive touch.



Brief Introduction

TAICENN TPC-PR170K series is a high performance, Fan-less designed, enhanced stability and reliability industrial 17.0-inch Touch Panel PC product. It adapts Intel Kaby lake 7th –gen Core i3/i5/i7 processor. TPC-PR170K 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-PR170K uses full-sealed box construction, and it can prevent dust from entering the device system.

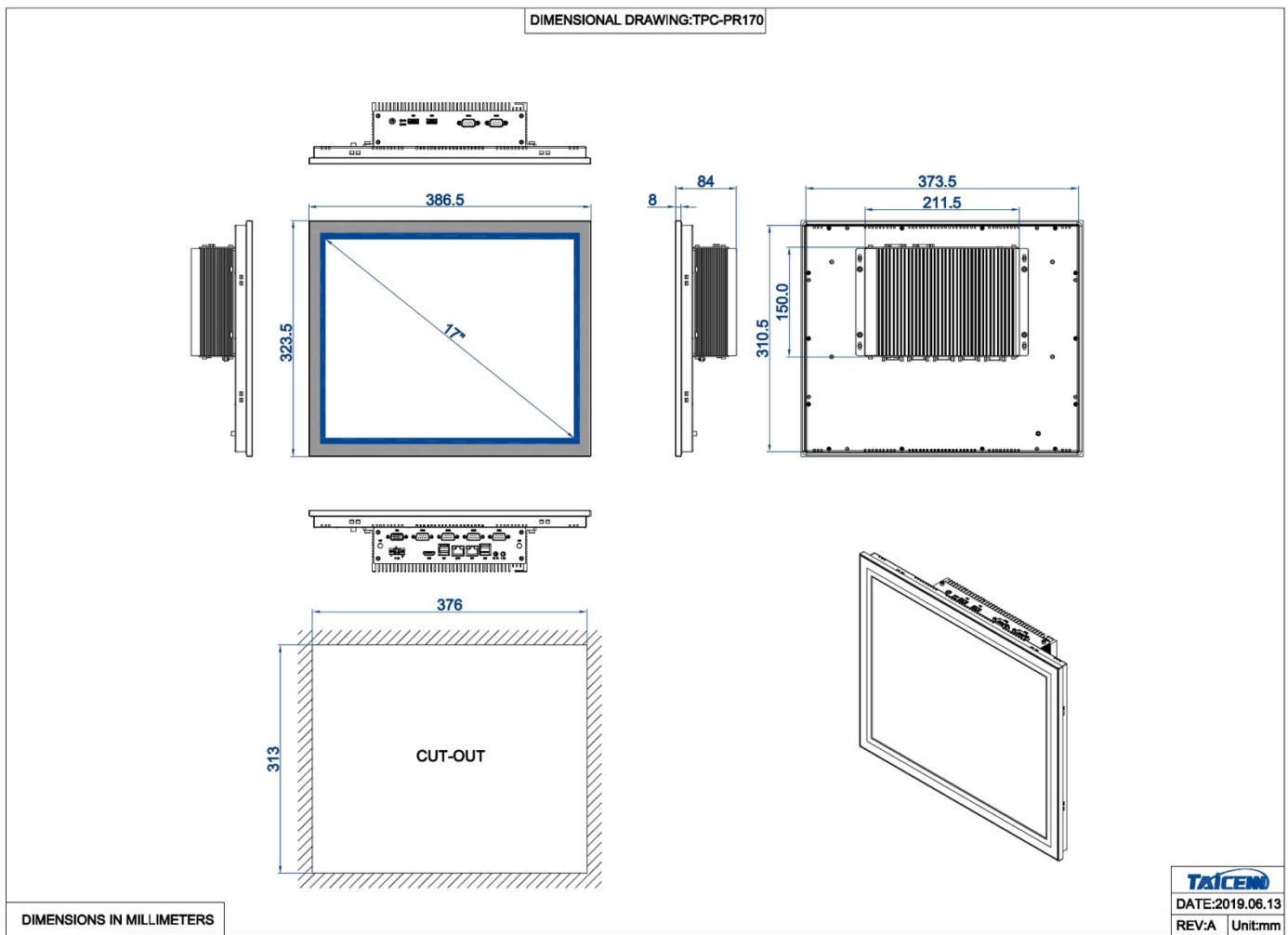
The TAICENN TPC-PR170K is compatible with Win7, Win8, Win embedded, Win10, Linux OS, and it also has a good compatibility with customized applications and software programs.

Technical Data

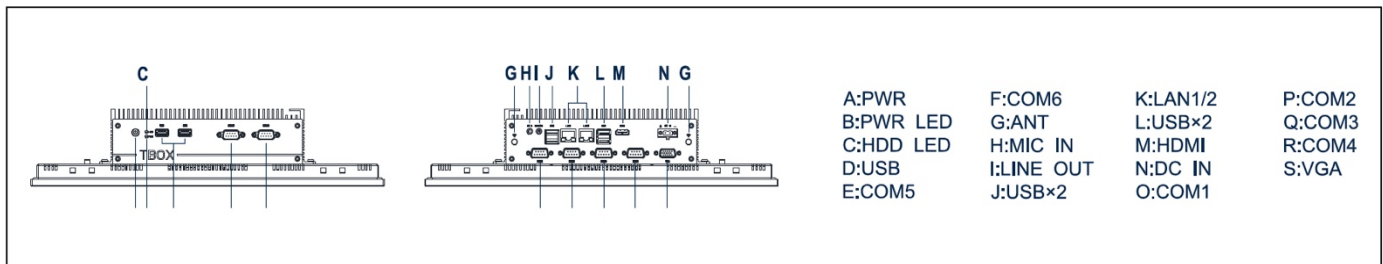
| Model Item | TPC-PR170K1 | TPC-PR170K2 | TPC-PR170K3 |
|------------------|---|--|--|
| System | | | |
| BIOS | SPI AMI EFI BIOS | | |
| CPU | Intel Core i3-7100U | Intel Core i5-7200U | Intel Core i7-7500U |
| CPU Ghz | Dual-core Four threads, 2.4Ghz, TDP 15W | Dual-core Four threads, 2.5Ghz, Burst to 3.1Ghz, TDP 15W | Dual-core Four threads, 2.7Ghz, Burst to 3.5Ghz, TDP 15W |
| Memory | DDR4L, Max. up to 16GB | | |
| Graphic card | Intel HD Graphics 620 | | |
| Network | 2*Intel I211AT, expansion with Wifi/3G/4G | | |
| Storage | 1x 2.5" SATA + 1x mSATA | | |
| Audio | Realtek ACL 269 controller | | |
| Watch dog | Programmable 1~255 seconds | | |
| Operating System | Win7, Win8, Win embedded, Win 10, Linux, Unix | | |
| I/O | | | |
| Network | 2x RJ45, 10/100/1000 Mbps | | |
| USB | 2x USB 2.0 + 4x USB 3.0 | | |
| COM | 6x RS232 (Surge and electrostatic protection) COM4/5 support RS232/RS485 COM6 support RS232/TTL | | |
| Audio | Line-In, Line-Out | | |
| Display | 1*VGA, 1*HDMI | | |

| | |
|--------------------------------|---|
| Power Input | 1*2 pins, phoenix terminal |
| LCD | |
| Size/Type | 17.0" TFT LCD |
| Resolution | 1280 * 1024 (XGA) |
| Brightness | 250 (cd/m ²) |
| Brightness MTBF | WLED, 30 000 hours |
| Display area | 337.92 x 270.336 mm (H*V) |
| Viewing angle | 85/85/80/80 (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 heatsinks, fan-less design |
| IP rating | IP65 front panel |
| Mounting | Panel mounting, support VESA 75/100 |
| Hole dimension | 376 x 313 mm (W*H) |
| Product Dimension | 386.5 x 323.5 x 84 mm (W*H*D) |
| Net weight | 5.5 KG |
| Power and Environmental | |
| Voltage Input | DC 12~24 V (Over-current, Over-voltage and reverse polarity protection) |
| Power Consumption | About 40 W |
| Working temperature | 0°C~+50 °C |
| Storage temperature | -20°C~+60 °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



I/O definition



Ordering Information

| | |
|-----------------|---|
| TPC-PR170K1 | 17.0", 1280*1024, Intel Core i3-7100U, 2*GLAN, 4*USB3.0+2*USB2.0, 6*RS232, 1*HDMI, 1*VGA, Resistive TOUCH , DC 12V Adapter |
| TPC-PR170K2 | 17.0", 1280*1024, Intel Core i5-7200U, 2*GLAN, 4*USB3.0+2*USB2.0, 6*RS232, 1*HDMI, 1*VGA, Resistive TOUCH , DC 12V Adapter |
| TPC-PR170K3 | 17.0", 1280*1024, Intel Core i7-7500U, 2*GLAN, 4*USB3.0+2*USB2.0, 6*RS232, 1*HDMI, 1*VGA, Resistive TOUCH , DC 12V Adapter |
| Memory | SO-DDR4L 4G/8G/16G |
| Storage | SSD: 16GB/32GB/64GB/128GB/256GB/512GB/1TB HDD: 500GB/1TB |
| Wireless module | WIFI: 802.11 b/g/n Mini PCIe 3G/4G/LTE: All network module |
| Bracket | TPC-PC Series VESA bracket |

Revision History

| Date | Revision | Description |
|------------|----------|--|
| 2018-01-03 | V1.0 | Initially release |
| 2019-06-13 | V2.0 | Dimension layout update (Panel mount hole update) New Images update |
| 2019-06-30 | V2.1 | CPU description update GPU information 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.*

The information in this specification is subject to change without notice

All parts of TAICENN Technology documentation are protected by copyright law and all rights are reserved. This documentation may not, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form without prior consent, in writing, from TAICENN Technology.