

P2295F-MT



ALPTECH
Computer for Industry

Fanless 21.5" Wide Screen Industrial Panel PC with Intel 8th Gen. Whiskey Lake CPU



Features

- **with the 8th Gen. Intel Whiskey Lake-U/UE CPU**
- 21.5" 1920 x 1080 FHD LCD Display w/ LED Backlight
- **Flat panel with projected capacitive touchscreen, 10 points Multi**
- Front panel compliant with IP65
- Anti-scratch surface: 7H hardness
- Serial Ports (RS-232/422/485), w/ Auto-flow Control
- Mini PCIe expansion slot support
- Fanless cooling system
- Low power consumption
- 12~24V Wide-Range DC Input
- **TPM 2.0 Header**

System

CPU	Intel® Core i5-8365UE™ CPU 1.6 - 4.1GHz Intel® Core i3-8145UE™ CPU 2.2 - 3.9GHz Intel® Celeron-4305UE™ CPU 2.2GHz
Memory	1 x DDR4L SO-DIMM Socket, supporting 2400 MHz SDRAM up to 16GB
LAN	1 x Intel® I210AT 1x 219LM GbE controllers 4x Intel LAN (optional)
Watchdog Timer	1~255 levels reset

Storage

1st Device	2 x 2.5" drive bay, Raid 0, 1, 5
2nd Device	SATA, M.2 M, M.2 B, M.2 E

Audio

Speaker	No
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LCD Display

Size/Type	21.5" TFT LCD Panel
Max. Resolution	1920 x 1080, FHD
Max. Colors	16.2M
Luminance	300 cd/m²
Touch Screen	Projected capacitive touch panel, 10 points Multi
View Angle (U/D/R/L)	80°/80°/85°/85°

Power System

Power Input	DC 12~24V
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Certification

EMC / EMI	Meet CE, FCC Class A
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Expansion

Expansion Bus	1 x Nano SIM Holder
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External I/O

Serial Ports	2 x COMs (4 x COMs optional)
USB Ports	4 x Type-A USB 3.1 Gen.2 4x USB 2.0 port (Internal)
LAN	2 x RJ-45 GbE ports (4x LAN optional)
Grafics	1 x HDMI / DP connector
WiFi	optional

Mechanical

Mounting Type	Panel Mounting and VESA-100 Mounting
Chassis	Panel-mounting chassis, aluminum front bezel and SECC steel chassis
Dimension (W x D x H)	536 x 60 x 332 mm, 520 x 316 mm (Cut Size)
Weight (Net)	7 kg (15.4 lb)

Environmental

Operating Temp.	-10°C ~ 60°C
Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Humidity	10 ~ 95% RH @ 60°C (non-condensing)
Vibration	5 ~ 500Hz, 2Grms Random (with CFast/SSD)
Shock	Operating 10G, 11ms Non-operating 30G, 11ms (with CFast/SSD)

OS Support

W 10 / Win 10 IOT Enterprise
Linux Kernal 4.x, Ubuntu 16.04, Fedora 25



MSI Industrial Mainboards inside

Alptech Elektronik GmbH



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Dimensions

