NPP-215P01

Siemens Certified Edge Industrial Panel PC 21.5 inch

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Features

- 21.5" Full HD 1920x1080, TFT-LCD
- Intel® Celeron® Processor J6412
- 2 x SO-DIMM, DDR4 3200MHz, up to 32GB
- Siemens Certified Industrial Edge
- Fanless, modular design
- IP66 aluminum front panel, 7H hardened glass

Powered by Siemens Industrial Edge

Powerful and Reliable Industrial Panel PC

The NPP-215P01 Industrial Panel PC, a Siemens Certified Industrial Edge Device, offers outstanding performance and reliability for demanding industrial applications. Equipped with an Intel® Celeron® Processor J6412 (Elkhart Lake) up to 2.6 GHz, this 21.5" Full HD 1920×1080 TFT-LCD screen provides sharp display. Thanks to the Projected Capacitive Touch, it enables precise control. The IP66-certified aluminum front housing and steel chassis ensure exceptional robustness. Two GbE Ethernet ports and five USB ports (4x 3.2 Gen1, 1x 2.0) offer versatile connectivity. With a fanless, modular, and detachable design, as well as VESA and panel mounting options, this Industrial Panel PC is flexible and easy to install.

Seamless Integration with Siemens Industrial Edge

As the first certified Panel PC in the Siemens Industrial Edge Ecosystem, the NPP-215P01 offers seamless integration and centralized management. The four COM ports (2x RS-232, 2x RS-232/422/485) and the wide DC 9~36V voltage range ensure high connectivity and energy efficiency. The NPP-215P01 is ideal for machine builders and plant operators looking to connect, manage, and operate machines centrally or remotely. With Siemens Industrial Edge Runtime, this Panel PC enables simple, scalable, and manageable IT and OT connectivity, increasing manufacturing efficiency and reducing maintenance costs.

Benefit from a robust, reliable, and versatile device designed for 24/7 use and meeting the highest industrial standards. Additionally, the NPP-215P01 offers excellent performance and is perfect for demanding industrial applications. Despite being fanless, it remains cool and operates efficiently. This Industrial Panel PC system is easy to install and maintain.

Industrial Applications

The NPP-215P01 Industrial Panel PC is ideal for machine control and automation in manufacturing plants. In logistics, it enables efficient management of inventory and transportation fleets. In healthcare, it can be used for patient monitoring and real-time data processing. Thanks to the Siemens Certified Industrial Edge Device certification, this Panel PC is perfect for use in modern, connected production environments. Without the NPP-215P01, companies often face challenges such as inefficient data processing and lack of machine integration. Consequently, these issues lead to production delays and higher operating costs. However, these hurdles can be overcome with the use of the NPP-215P01, as it provides a robust and reliable solution for real-time monitoring and control. This allows companies to optimize their processes and increase overall productivity. This is particularly important in today's era, where Industry 4.0 and connected manufacturing systems are becoming increasingly significant. In summary, the NPP-215P01 significantly contributes to efficiency improvement by enabling seamless integration and rapid data processing, which is key to success in modern industry.

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	NPP-215P01 21.5"
SYSTEM	
CPU	Intel® Celeron® Processor J6412 (Elkhart Lake) 2.0 GHz (up to 2.6 GHz)
Chip	integreted
Software	iFace-Designer® Runtime, Siemens Industrial Edge Runtime, Siemens Industrial Management
RAM	2 x SO-DIMM, DDR4 3200MHz, up to 32GB
HDD	SSD 1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s)
Expansion Slot	1 x Full-size mini PCIe, optional WIFI und 4G LTE
Operating System Support	Windows 10 IoT, Debian 11
DISPLAY	
Display Size	21.5" TFT-LCD
Max. Resolution	1920 x 1080
Touch Type	Projected Capacitive Touch (Resistive Touch as optional)
Luminance	500 cd/m2 (Typ.)
Contrast	1000:1
Max. Color	16.7 M
View Angle	178° (H) / 178 ° (V)
INTERFACE	
Ethernet	2 x GbE Ethernet ports
USB	4 x USB 3.2 Gen 1 x USB 2.0
COM	2 x DB9 (RS-232/422/485 & RI/5V/12V) 2 x DB9 (RS-232/422/485) 2 x DB9 (RS-232)
Video	2x HDMI 2.0
Audio	1 x Line Out
Power Connector	1 x 2 pins terminal block for external power switch 1 x 3 pins terminal block power connector 1 x power switch on/off
ENVIRONMENTAL	
Chassis Material	Aluminum front bezel and steel chassis
Thermal Design	Fanless
Power Input Range	90W / 19V, 3-Pin (9-36V DC optional)
Operating Temperature	0~50° C (32~122° F)
Storage Temperature	-20~60° C (-4~140° F)
Storage Humidity	10 to 90% (non-condensing)
Dimensions (mm)	538.0(W) x 329.5(H) x 87.0(D)
Weight	7.2 kg
Mounting	VESA mounting 100x100mm
IP Rating	IP66-rated aluminum front bezel and steel chassis
Certification	CE, FCC

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Technical drawing