EAGLE Panel Mount J6412 Series

Fanless industrial panel mount panel PCs and built-in systems for control cabinets

Features

- 10.1″ ~ 21.5″ Panel Mount Panel PCs
- Intel® Elkhart Lake J6412 CPU
- 2x DDR4 SO-DIMM 3200 up to 32GB
- Windows 11 ready
- Fanless design for machine control
- IP66 front panels

Fanless panel PC systems for industrial applications

The models of the industrial panel PCs of the EAGLE Panel Mount J6412 series have a high performance with the 8th Gen. Intel® Core™ i7/i5/i3 processors. Fanless operation is made possible by special heat sinks. They ensure effective cooling and thus full computing power up to 50°C maximum ambient temperature. For industrial use, the models have a rugged all-metal housing with an installation depth of less than 92mm. The front panel, shielded according to protection class IP66, is protected against dust and water jets and thus ensures high reliability with low maintenance. All models of the series have the necessary requirements for Windows 11.

Powerful CPUs

A powerful Intel® Gen 11 graphics card ensures the excellent graphics performance. An LED LCD screen is available as a resistive touchscreen with a screen diagonal of 10.1 inches, 10.1 inches, 10.4 inches, 15 inches or 21.5 inches. The maximum resolution of 1920 × 1080 points and a brightness of up to 400 cd/m² offer great luminosity and clear visibility. The models are equipped with one HDMI and one VGA for additional and independent displays. With their low installation depth, the panel mount version and the IP66 front protection, these panel PCs are ideal for controlling machines or for building automation. They can be used in a dusty environment as well as in a operating room. Due to their outstanding performance, the industrial Panel PCs can also take on applications in process automation, control technology or optical monitoring.

Custom configurations

The Panel PCs have up to two SODIMM sockets with a maximum of 32GB DDR4 RAM memory. A vibration-damped 2.5″ HDD SATA III with a capacity of 500GB is used as the main storage device. The use of SSDs or other storage devices of up to 500 GB is possible as an option. Up to three COM ports (one RS-232 and two RS232/422/485) are available as serial interfaces. In addition, the devices offer USB 3.2 and USB 2.0 connections, a mic-in and a line-out, as well as numerous other options for usability and interface options for peripheral devices. For the requirements of a connected world with high transfer rates, we offer optional add-on components to realize more applications at work, such as an optionally available M.2 SSD, WLAN with external antenna and other services to meet your requirements.
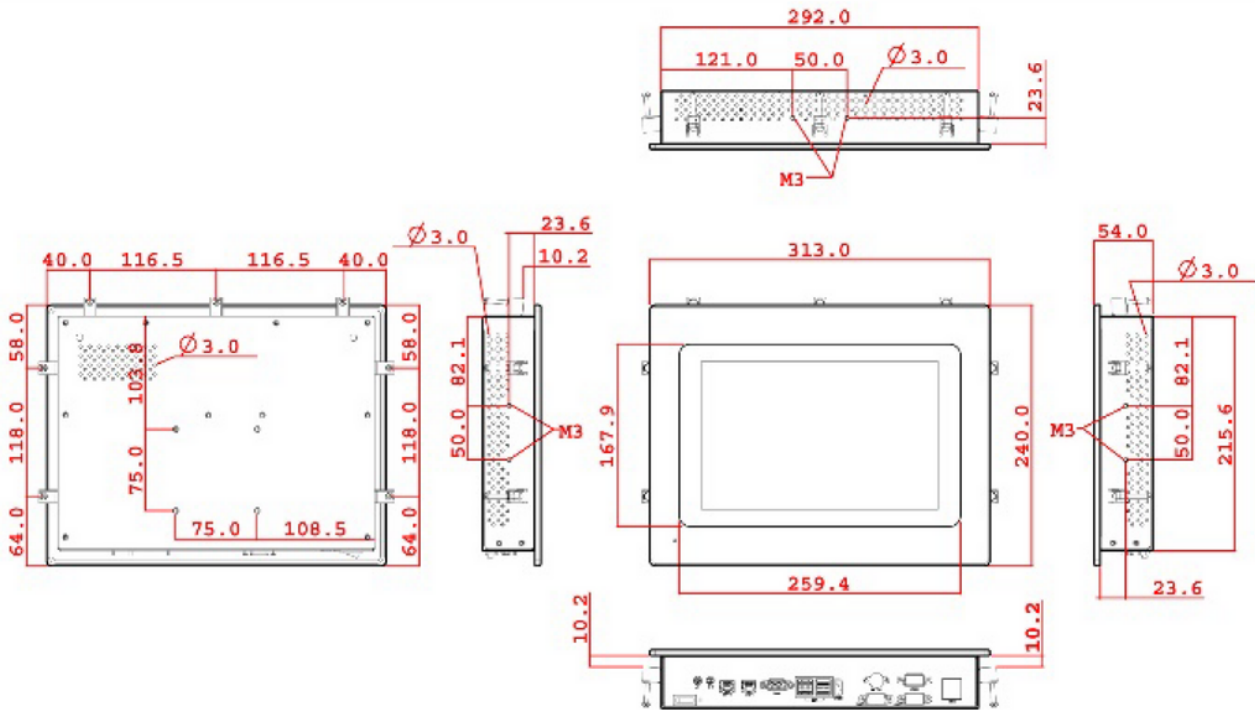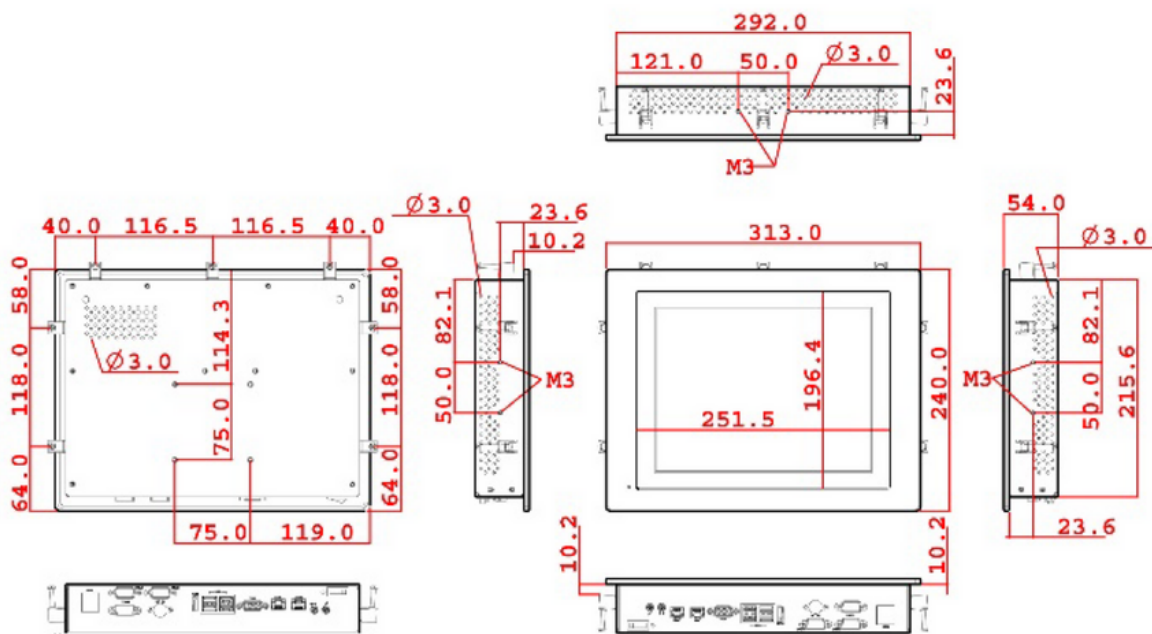
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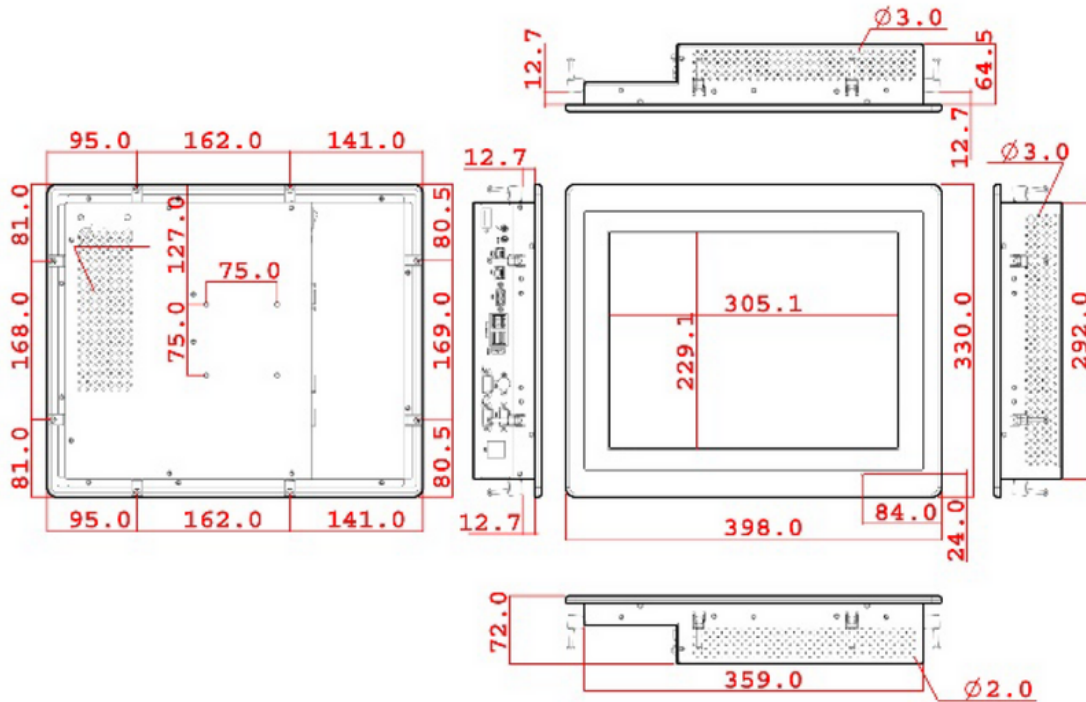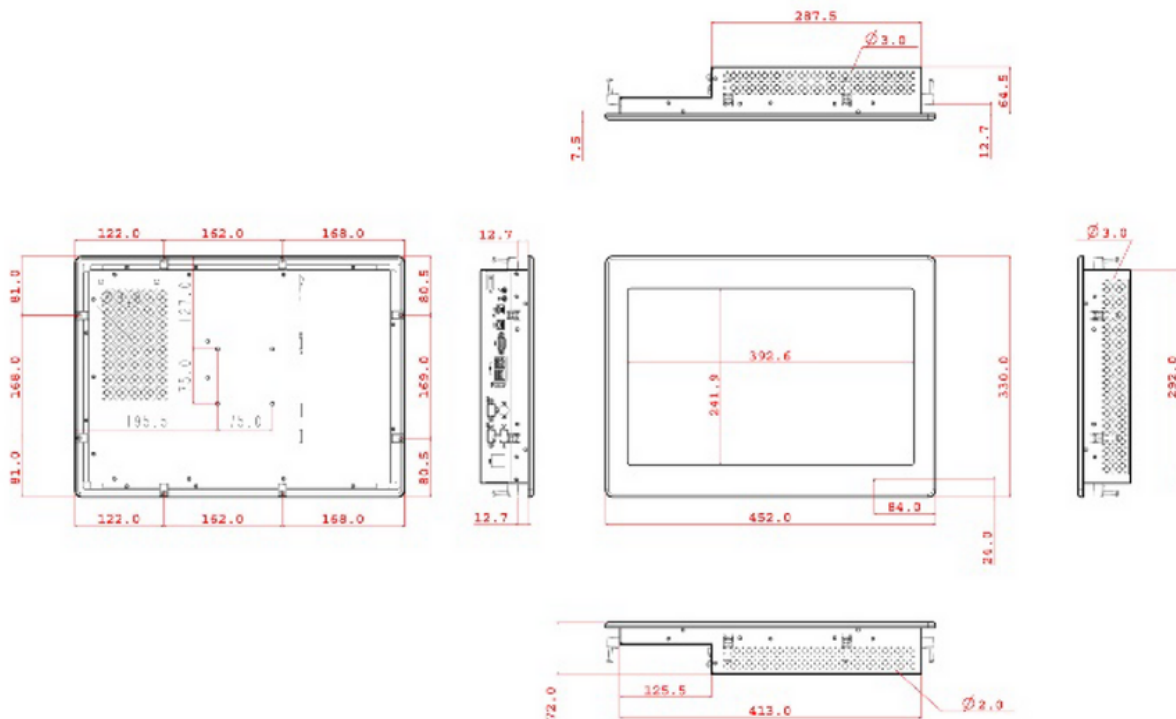|	10.1"	10.4"	15"	15.6"	21.5"
SYSTEM					
CPU	Intel® Elkhart Lake SoC CPU J6412, QC, 2.60-2.0GHz, 10W				
Graphics	Intel® Gen 11 Graphics				
RAM	2x DDR4 SO-DIMM 3,200MHz socket,(up to 32GB)				
Storage	1x 2.5" SATA HDD with anti-vibration mechanism1x M.2 (Key M, 2242/2260/2280) with SATA 3 and 1x PCIe for SSD				
Expansions	1x PCIe x1 (Gen 3)1x M.2 (Key E 2230) with PCIe x1 and shared USB 3.0 for wireless1x M.2 (Key B 3042/3052) with PCIe x1 / USB 2.0 / USB 3.2 and SIM for 4G/5G1x SIM socket connected with M.2 Key B				
Operating System	Windows 10 (64bit),Windows 11 (64bit)				
DISPLAY					
Display Size	10.1" (25.7cm)	10.4" (26.4cm)	15" (38.1cm)	15.6" (39.6cm)	21.5" (54.6cm)
Resolution	1,280 x 800	800 x 600	1,920 x 1,080	1,366 x 768	1,920 x 1,080
Touchscreen	Full flat PCAP Multi-touch	Full flat resistive touch Full flat PCAP Multi-touch	Full flat resistive touch Full flat PCAP Multi-touch	Full flat resistive touch Full flat PCAP Multi-touch	Full flat resistive touchFull flat projected capacitive touch
Brightness	400 cd/m²	230 cd/m²	350 cd/m²	400 cd/m²	250 cd/m²
Aspect Ratio	16:9	4:3	4:3	16:9	16:9
INTERFACE					
Ethernet	1x RJ-45 1 Gbps1x RJ-45 2.5 Gbps				
USB	2x USB 3.2 (Gen 1)2x USB 2.0				
COM	1x RS-2322x RS-232/422/485				
Video	1x HDMI 2.0b1x VGA				
Audio	2x 3.5mm (Line-out and Mic-in)				
Power	1x 12~28 VDC-in				
ENVIRONMENTAL					
Chassis	Panel mount (optional open frame)				
Cooling	Fanless				
Power Adapter	External power supply, 60W, 100-240V AC input, 19V DC output (PSU with PSE)				
Operating Temperature	±0° ~ 50° C with SSD±0° ~ 45° C with HDD				
Storage Temperature	-20°C ~ 65°C				
Humidity	10% ~ 90% non-condensing				
Dimensions	313 x 54 x 240mm	313 x 54 x 240mm	398 x 72 x 330mm	452 x 72 x 330mm	495.5 x 91.5 x 384.7mm
Weight	TDB	TDB	TDB	TDB	TDB
Mounting	Panel mount, VESA mount 75 mm				
IP Rating	Front IP66				
Certifications	FCC, CE, VCCI Class B				

Technical drawing (mm) - 10.1"

Technical drawing (mm) - 10.4"

Technical drawing (mm) - 15"

Technical drawing (mm) - 15.6"

Technical drawing (mm) - 21.5"