



ASLAN-W1022C

Fanless 21.5" Wide-Screen Industrial Panel PC with Intel® Core i Processor



Features

- 21.5" LCD Display w/ LED Backlight
- Flat panel with PCAP touch screen
- IP65 compliant front panel
- Anti-scratch surface: 7H hardness
- Serial Ports (RS-232/422/485), RS-485 w/ auto-flow control
- Mini PCIe expansion slot support
- 4 x SMA antenna holes for optional wireless function
- Extended operating temperature range -20°C ~ 50°C
- Wide power input range 9~36 VDC
- Fanless cooling system

System

CPU	Intel® Tiger Lake-UP3 Core-i embedded processor
Memory	4GB DDR4 SO-DIMM pre-installed 2 x 260-pin DDR4 SO-DIMM sockets, supporting 3200MHz SDRAM up to 64GB
LAN Chipset	1 x Intel® i225LM PCIe controller w/ iAMT 2 x Intel® i211AT PCIe controller
Watchdog Timer	1~255 levels reset

Storage

Type	1 x 2.5" drive bay (SATA III) 1 x M.2 M-Key 2242/2280 slot (PCIe Gen III x4 + SATA III)
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Audio

Type	1 x Mic-in / 1 x Line out 2 x 1.5W speakers (optional)
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LCD Display

Size/Type	21.5" TFT LCD panel
Max. Resolution	1920 x 1080, FHD
Max. Colors	16.2M
Luminance	250 cd/m²
Touch Screen	Projected capacitive touch panel
View Angle (U/D/R/L)	89°/89°/89°/89°

Power System

Power Input	9~36 VDC (3-pin terminal block: V+, V-, GND)
Remote Control	1 x 3-pin terminal block
Power Consumption	Max. 102W (w/o I/O cards)

Qualification

Certification	CE, FCC Class A
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OS Support

Windows 10 / Linux: Ubuntu 20.04	
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Expansion

Expansion Bus	1 x mPCIe (PCIe x1 + USB2.0, Full Size) w/ 1 x nano SIM card slot 1 x M.2 B-Key 2242/3042/3052 (PCIe x2 + USB3.0) w/ 2 x nano SIM card slots for 5G module 1 x M.2 E-Key 2230 (CNVi + USB 2.0) slot for WiFi / BT **Support CNVi modules only**
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External I/O

Serial Ports	2 x DB-9 connectors for RS-232 1 x DB-9 connectors for RS-232/422/485
USB Ports	4 x USB-A 3.2 Gen2 ports
LAN	1 x RJ-45 2.5 GbE LAN ports 2 x RJ-45 GbE ports
Video	1 x HDMI 2.0b, up to 3840x2160@60Hz 1 x DisplayPort 1.4, up to 3840x2160@60Hz
DIO	8 x DI & 8 x DO w/ 1.5KV isolation
Multi-Serial Bus	I²C/SPI/UART/GPIO (w/ 3.3 or 5V) via DB-26
Others	4 x Antenna holes
Button	1 x power button 1 x reset button

Mechanical

Mounting Type	Panel mount & VESA-100 mounting
Material	Aluminum front bezel and SGCC chassis
Dimension (W x H x D)	536 x 332 x 65 mm
Weight (Net)	8 kg

Environmental

Operating Temp.	-20°C ~ 50°C
Storage Temp.	-30°C ~ 70°C
Operating Humidity	10 ~ 95% RH @ 50°C (non-condensing)
Vibration	5 ~ 500Hz, 1Grms random (w/ SSD)
Shock	Operating 10G, 11ms non-operating 30G, 11ms (w/ SSD)

Ordering Information

ASLAN -W1022C	21.5" Intel® UP3 Core-i processor, wide-screen industrial panel PC w/ 4GB Memory
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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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