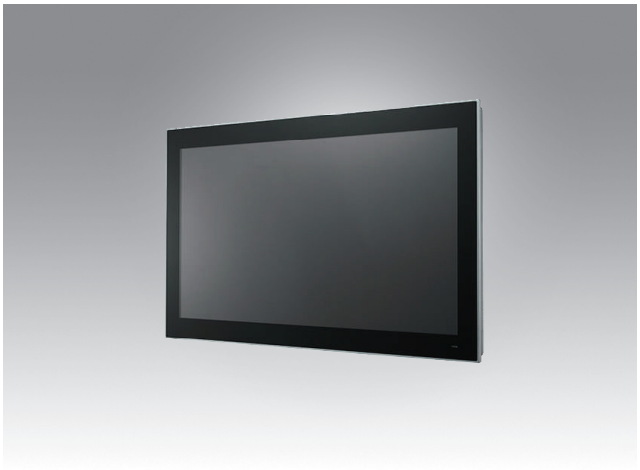
PPC-324W-PN4

23.8" Fanless Widescreen Panel PC with Intel® Pentium® N4200 Quad-Core Processor



Features

- 23.8" true-flat TFT LCD with projected capacitive touch control
- Fanless design with low power consumption
- Supports 1 x internal 2.5" SATA HDD and 1 x mSATA
- Configurable RS-232/422/485 ports via BIOS
- Automatic data flow control over RS-485
- Wide range DC support (12 ~ 24 V_{DC})
- Supports dual displays
- IP66-rated front panel

Introduction

The PPC-324W-PN4 is a high-value, ultra-slim panel PC equipped with a 23.8" industrial-grade LCD, and low-power Intel® Pentium® N4200 quad-core, 1.1 GHz, processor to provide high-performance computing in a compact and fanless system. For high durability and functionality, the PPC-324W-PN4 features an IP66-rated front panel, multi-touch projected capacitive touchscreen, die cast aluminum alloy enclosure, two serial ports, four USB ports, and two GbE LAN ports, making it suitable for diverse industrial applications.

Specifications

System	CPU	Intel Pentium® N4200 quad Core
	Frequency	1.1GHz, turbo boot to 2.5GHz
	L2 Cache	3 MB
	Memory	1 x SODIMM, DDR3L 1600/1866, max. 8 GB
	Storage	1 x 2.5" SATA bay (optional; requires a bracket module for installation) 1 x mSATA bay
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I211-AT/I210AT A ver.) or 2.5GbE (Intel i225LM B ver.)
	I/O	2 x Serial ports: 1 x RS-232, 1 x RS-232/422/485 2 x USB 3.0, 2 x USB 2.0 1 x Line-out 1 x HDMI
	Expansion	1 x Mini PCIe
	Watchdog Timer	255 timer levels, set up by software
	Speaker	2 x 1W
Physical Characteristics	Dimensions	595.9 x 374.1 x 58.4 mm (23.5" x 14.7" x 2.3")
	Weight	8.4 kg (18.5 lb)
OS Support	OS Support	Microsoft® Windows 10(64-bit), Windows 10 IOT LTSC, Linux, Android 8.1
Power Comsumption	Input Voltage	12 ~ 24 V_{DC}
	Power Consumption	70W
LCD	Display Type	23.8" TFT LCD (LED backlight)
	Max. Resolution	1920 x 1080
	Viewing Angle	89 (Left), 89 (Right), 89 (Up), 89 (Down)
	Luminance (cd/m^2)	350
	Contrast Ratio	1000
	Backlight Lifetime	30,000 hr
Touchscreen	Touch Type	10-point multi-touch projected capacitive
	Light Transmission	≥ 85%
	Controller	USB Interface
Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F) with SSD 0 ~ 40 °C (32 ~ 104 °F) with HDD
	Storage Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
	Relative Humidity	10 ~ 95% @ 40 °C (Non-Condensing)
	Shock	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5~500Hz, 1Grms @with HDD; 2Grms @with SSD, Follows IEC 60068-2-64
	EMC	CE, FCC Class B, BSMI, EN 60601-1-2
	Safety	CB, UL, CCC
	Front Panel Protection	IP66 compliant

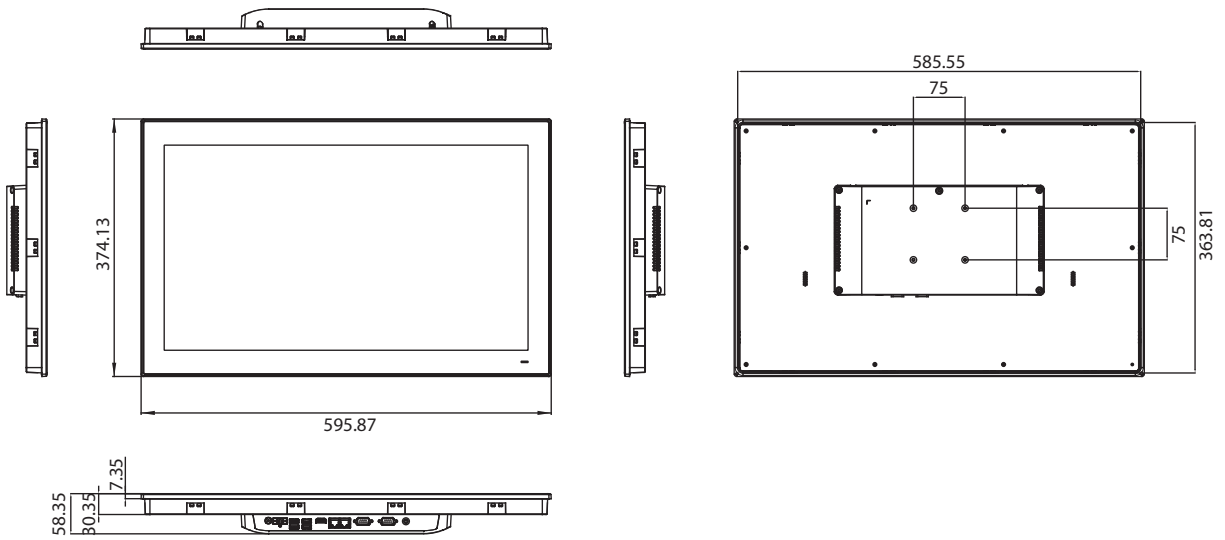
All product specifications are subject to change without notice.

Last updated: 28-Jul-2022

PLUG-IN Electronic GmbH • Am Sonnenlicht 5 • 82239 Alling • Tel.: +49 (0) 8141 3697-0 • info@plug-in.de • www.plug-in.de

Dimensions

Unit: mm



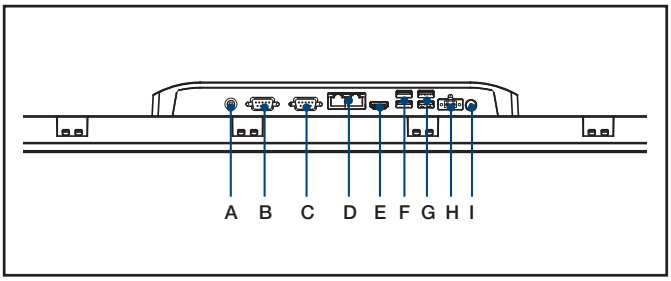
Panel Cutout Dimensions: 586.5 x 364.8 mm (23.09 x 14.36 in)

Ordering Information

Part Number	Description
PPC-324W-PN40A	Intel Pentium® N4200 Quad-Core Wide screen PPC with 23.8" FHD panel, P-cap T/S, assembled in China
PPC-324W-PN40B	Intel Pentium® N4200 Quad-Core Wide screen PPC with 23.8" FHD panel, P-cap T/S, assembled in China
PPC-324W-PN40AU	Intel Pentium® N4200 Quad-Core Wide screen PPC with 23.8" FHD panel, P-cap T/S, assembled in Taiwan
PPC-324W-PN40BU	Intel Pentium® N4200 Quad-Core Wide screen PPC with 23.8" FHD panel, P-cap T/S, assembled in Taiwan
96PSA-A90W19OT-3	A/D 100-240V 90W 19V C6 TERMINAL 2 PIN 62368
1700001524	POWER Cord 3P UL 10A 125V 180cm
170203183C	POWER Code 3P Europe (WS-010+083)183 cm
1700008921	POWER CORD 3P/3P POWER SUPPLY 1.8 M PSE
96CB-POWER-B-1.8MB	Power code 3P CCC(China) 1.8M
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-STAND-A1E	Stand for PPC series
PPC-ARM-A03	ARM VESA Standard (A-CLEVER) for PPC series
PPC-WLAN-C1E	M.2 Wi-Fi Module with Antenna cable support 2T2R
PPC-HDD-N4200	HDD Bracket module for PPC-3150SW and PPC-3180SW and PPC-324W-PN4

Note:
PPC-324W-PNxxAx:Intel I211-AT/I210AT, 1GbE LAN chipset
PPC-324W-PNxxBx:Intel i225LM, 2.5GbE LAN chipset

I/O View



A. Line out
B. COM1: RS-232
C. COM2: RS-232/422/485
D. 2 x LAN
E. HDMI
F. 2 x USB 3.0
G. 2 x USB 2.0
H. DC-In
I. Power Button

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries.
Please contact Advantech for certificate compliance.