

PPC-N193

19" IP66 Front Projected Capacitive / 5-wire Resistive Panel PC with Intel® Pentium® N4200 / Celeron® N3350 Processor



Features

- Front Bezel IP66 Protection
- 7H Hardness Anti-scratch PCAP Touch
- Aesthetic Silver-white Chamfered Edges
- Supports Panel and VESA Mount

Applications

- Human Machine Interface (HMI)
- Factory / Manufacturing Automation
- ATM / Self-service / Kiosk
- Vending Machine / Ticketing Machine

Ordering Information

Part No.	Description
PPC-N193P-1A1	19" 4:3 (1280 x 1024), 350 nits, Aluminum IP66 Front Panel, Fanless Panel PC with Intel® Pentium® N4200 CPU, Projected Capacitive Touch, 2x USB3.0, 2x USB2.0, 3x RS-232, 1x RS-232/422/485, 2x GbE, 1x HDMI, 1x VGA, 8-bit GPIO, Line Out, DC 9~36 V, Phoenix Connector
PPC-N193P-2A1	19" 4:3 (1280 x 1024), 350 nits, Aluminum IP66 Front Panel, Fanless Panel PC with Intel® Celeron® N3350 CPU, Projected Capacitive Touch, 2x USB3.0, 2x USB2.0, 3x RS-232, 1x RS-232/422/485, 2x GbE, 1x HDMI, 1x VGA, 8-bit GPIO, Line Out, DC 9~36 V, Phoenix Connector
PPC-N193R-1A1	19" 4:3 (1280 x 1024), 350 nits, Aluminum IP66 Front Panel, Fanless Panel PC with Intel® Pentium® N4200 CPU, 5-wire Resistive Touch, 2x USB3.0, 2x USB2.0, 3x RS-232, 1x RS-232/422/485, 2x GbE, 1x HDMI, 1x VGA, 8-bit GPIO, Line Out, DC 9~36 V, Phoenix Connector
PPC-N193R-2A1	19" 4:3 (1280 x 1024), 350 nits, Aluminum IP66 Front Panel, Fanless Panel PC with Intel® Celeron® N3350 CPU, 5-wire Resistive Touch, 2x USB3.0, 2x USB2.0, 3x RS-232, 1x RS-232/422/485, 2x GbE, 1x HDMI, 1x VGA, 8-bit GPIO, Line Out, DC 9~36 V, Phoenix Connector

Packing List

Description
1 x PPC-N193
1 x Power Adapter
16 x Panel Mounting Screws

Optional Items

Part No.	Description
AWD-WF001	Wi-Fi 802.11 b/g/n (1T1R) + 1 Antenna, Half Size
AWD-WF003	Wi-Fi 802.11 a/b/g/n/ac/BT4.0 (2T2R) + 2 Antennas (Dual Band), Half Size
AWD-4G003	4G(LTE) EG25-G + 2 Antennas, Full Size (for Global)
AWD-4G004	4G(LTE) EC25EFA + 2 Antennas, Full Size (for Europe/Taiwan/China/Hong Kong)
ACS-110-STD	VESA Stand (75x75, 100x100 mm), Supporting up to 15 kg Panel PC / Monitor

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→ Specifications

	Model	PPC-N193P-1A1	PPC-N193P-1A1	PPC-N193R-2A1	PPC-N193R-2A1
Processor System	CPU	Intel® Pentium® N4200	Intel® Celeron® N3350	Intel® Pentium® N4200	Intel® Celeron® N3350
	Frequency	Quad-core up to 2.5GHz	Dual-core up to 2.4GHz	Quad-core up to 2.5GHz	Dual-core up to 2.4GHz
	System Chipset	N/A			
	L2 Cache	2 MB			
	BIOS	UEFI			
Memory	Technology	Dual Channel DDR3L 1866 MHz SDRAM			
	Max. Capacity	8 GB			
	Type	2x 204-pin SO-DIMM			
Panel	Panel Size	19"			
	Panel Type	LCD Panel			
	Aspect Ratio	4:3			
	Resolution	SXGA, 1280 x 1024			
	Viewing Angle	170(H) x 160 (V)			
	Brightness	350 cd/m2			
	Contrast Ratio	1000:1			
	Response Time	12 msec			
Touchscreen	Touchscreen Type	Projected Capacitive		5-wire Resistive	
	Surface Hardness	7 Mohs		3 Mohs	
	Durability	N/A		36 Millions Times	
	Transparency	90% (±3%)		80% (±3%)	
Display	HDMI	1x HDMI, up to 3840 x 2160 @ 30 Hz			
	DP	N/A			
	VGA	1x VGA, up to 2560 x 1600 @ 60 Hz			
	DVI	N/A			
I/O Interface	USB	2x USB 3.0 and 2x USB 2.0			
	Serial Port	3x RS-232 and 1x RS-232/422/485			
	Ethernet	2x GbE (Lan 1/2: Intel® i211AT)			
	Audio	Line Out, Mic In (Realtek® Audio Codec)			
	GPIO / DIO	8-pin Digital I/O (DB-9 Connector)			
	Antenna Hole	N/A (Optional)			
	Others	N/A			
Storage	2.5" HDD / SSD	1x Internal 2.5" HDD/SSD			
	M.2	1x M.2 M Key 2242 (SATA III)			
	mSATA	N/A			
	RAID	N/A			
Expansion	Mini PCIe	1x Full Size (PCIe X1 / USB2.0)			
	M.2	N/A			
	PCI / PCIe	N/A			
	SIM Holder	1			
Power	Power On Model	AT/ATX			
	Power Supply Voltage	9-36V DC Input			
	Connector Type	2-pin Terminal Block			
	Power Consumption(Typical)	1.31A @ 12V (15.8 W)			
Mounting	Type	VESA Mount (75 x 75, 100 x 100 mm) / Panel Mount			
Environment	Operating Temperature	-20~60°C (-4~140° F) w/ Extended Operation Temp. RAM & Storage			
	Storage Temperature	-40~85°C (-40~185° F)			
	Humidity	5~95% @ 40° C, Non-condensing			
	Vibration	IEC 60068-2-64: 1.5Grms, random, 5~500 Hz, 1hr/axis			
	Shock	IEC 60068-2-27: 15G, half-sine, 11ms duration			
General	Certification	CE/FCC Class A			
	Thermal Dissipation	Fanless			
	Ingress Protection	Front IP66			
	Material	Aluminum Front Cover			
	Dimensions (W x H x D)	456 x 393 x 69 mm (17.95" x 15.47" x 2.72")			
	Net Weight	5.73kg (11.685 lb)			
	Operating System	Windows 10 (IoT 64 bit / Professional), Linux Kernel 4.0.x or above			

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→ Dimensions

