

# PPC-Ci220-N7088

Intel® 4<sup>th</sup> Generation Core™ i7/i5/i3/ Celeron®  
Processor Socket 1150 Desktop Processor Q87  
Chipset Based 22" LCD Panel PC with 4 USB 2.0/6  
USB 3.0/4x COM Ports/VGA /Dual Gigabit LAN



## FEATURES

- Intel® 4<sup>th</sup> Generation Intel® Core™ i7/i5/i3 Processor in Socket 1150
- Two 240-pin DIMM sockets Dual-channel DDR3 1066/1333/1600 SDRAM. Max. up to 16 GB memory
- Intel® Q87 Express chipset
- Intel® I210 & I217LM on board for Dual GbE LAN
- Integrated Intel® HD Graphics with DVI-I/DisplayPort connectors
- Realtek® ALC888 High Definition Audio chip on-board
- Multi I/O: 6x USB 3.0, 4x USB 2.0, 4x COM ports, 4x SATA 3.0
- Expansion Slot: 1 PCIe x16, 2 Mini PCIe socket
- Bay: 1x Slim SATA DVDRW, 2x 2.5" HDD (Internal) Bays

## Introduction

PPC-Ci220-N7088 Industrial Panel PC supporting Intel® Core™ i7/i5/i3 Processor Socket 1150 Desktop Processor. PPC-Ci220-N7088 comes with 22" LCD Display. PPC-Ci220X-N7088 supports one Slim DVDRW and Two 2.5" Hard Disk, 4x COM Port, 4 x USB 2.0, 6 x USB 3.0 and one PCIe x16 expansion slot.

PPC-Ci220-N7088 is ideal for developing high-performance systems for industrial control and Automation, retail, gaming, print imaging and digital signage.

## Specification

LCD	
Model	PPC-Ci220-N7088
Resolution	1680x1050 (WSXGA+)
Brightness	250 cd/m2
Contrast Ratio	2000:1
Viewing Angle	178x178
Backlight	LED
Backlight MTBF	30000Hrs
System	
Processor	<ul style="list-style-type: none"><li>4th Generation Intel® Core™ processors (22nm process technology)</li><li>LGA 1150 socket</li></ul>
BIOS	<ul style="list-style-type: none"><li>uEFI BIOS. 64Mbit FlashROM with DOS and Windows update utility support.</li></ul>
System Memory	<ul style="list-style-type: none"><li>Four 240-pin DDR3/DDR3L DIMM sockets</li><li>Supports DDR3/DDR3L 1333/1600MHz when operating at 1.5V</li><li>Supports dual channel memory interface</li><li>Supports up to 16GB system memory</li><li>DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC</li></ul>
Chipset	Intel® Q87 Express Chipset
Video	<ul style="list-style-type: none"><li>Intel® HD Graphics</li><li>Display ports: DisplayPort and DVI-I</li><li>DVI-I supports up to 1920x1200 @ 60Hz resolution</li><li>DisplayPort supports up to 3840x2160@60Hz resolution</li><li>VGA display resolution up to 1920x1200 pixels with 24-bit color@ 60Hz</li><li>Intel® Clear Video Technology</li><li>Supports 20 Graphics Execution Units (EUs)</li><li>Intel® Advanced Vector Extensions (Intel® AVX) Instructions</li><li>DirectX Video Acceleration (DXVA) support for accelerating video processing</li><li>Supports DirectX 11.1 and OpenGL 4.0</li></ul>
Ethernet	<ul style="list-style-type: none"><li>Intel® I210 PCI Express Gigabit Ethernet controller</li><li>Intel® I217LM with iAMT9.0 Gigabit Ethernet Phy</li><li>Integrated 10/100/1000 transceiver</li><li>Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab</li></ul>
On Board I/O	<ul style="list-style-type: none"><li>1x Connector for PS/2 Mouse/Keyboard</li><li>4 x Serial ports (1x RS-232/422/485 selectable )</li><li>1 x SPDIF</li><li>4 SATA 3.0 ports with data transfer rate up to 6Gb/s</li><li>Integrated Advanced Host Controller Interface (AHCI) controller</li><li>RAID 0, 1, 5, 10</li><li>10 USB: 6 USB 3.0, 4USB 2.0 ports</li><li>1x 8 bit Digital I/O</li></ul>
Watchdog Timer	<ul style="list-style-type: none"><li>Programmable watchdog timer for 1~255 seconds.</li></ul>
CMOS	<ul style="list-style-type: none"><li>On-board RTC with 242 bytes of Battery-back CMOS RAM.</li></ul>
Audio	<ul style="list-style-type: none"><li>Realtek® ALC888 High Definition Audio</li><li>Audio outputs: Mic-in, line-in and line-out</li><li>SPDIF audio interface</li></ul>
Power	<ul style="list-style-type: none"><li>Standard 20Pin + 4pin ATX power supply</li><li>Support both AT and ATX mode.</li></ul>
Cooling	<ul style="list-style-type: none"><li>One CPU cooling FAN connector nearby CPU socket</li><li>One system cooling FAN connectors for chassis or power supply cooling.</li></ul>
Power Requirement	
Power Supply	<ul style="list-style-type: none"><li>Industrial Auto Range 300W Power Supply</li></ul>

Mechanical & Environment	
Drive Bay	<ul style="list-style-type: none"><li>One Slim DVDRW &amp; two 2.5" Hard Disk Bays</li></ul>
Dimension	<ul style="list-style-type: none"><li>550.8(W) x 373.1(H) x 113(D) mm</li></ul>
Weight	<ul style="list-style-type: none"><li>Gross 18kg</li></ul>
Operation temperature	<ul style="list-style-type: none"><li>0°C to 60°C (32° F to 140° F)</li></ul>
Storage temperature	<ul style="list-style-type: none"><li>-20°C to 80°C (-68° F to 176° F)</li></ul>
Relative humidity	<ul style="list-style-type: none"><li>5% to 95% (Non-Condensing)</li></ul>
Additional Chassis FAN	<ul style="list-style-type: none"><li>2x 40mm</li></ul>
Front Bezel protection	<ul style="list-style-type: none"><li>IP65 Compliant</li></ul>
Ordering Information	
PPC-Ci220-N7087-C100	Intel® 4 <sup>th</sup> Generation Core™ i7/i5/i3 Processor Socket 1150Desktop Processor Q87 Chipset Based 22" LCD Panel PC 350cd/m <sup>2</sup> with 4 USB 2.0/6 USB 3.0/4x COM Ports/VGA /Dual Gigabit LAN, 300W Power Supply ARG Protection and Sensor & Slim Socket 1155 CPU Cooler
PPC-Ci220-N7087-C101	Intel® 4 <sup>th</sup> Generation Core™ i7/i5/i3 Processor Socket 1150Desktop Processor Q87 Chipset Based 22" LCD Panel PC 350cd/m <sup>2</sup> with 4 USB 2.0/6 USB 3.0/4x COM Ports/VGA /Dual Gigabit LAN, 300W Power Supply/USB Touch Screen Controller and Sensor & Slim Socket 1155 CPU Cooler
PPC-Ci220-N7087-C102	Intel® 4 <sup>th</sup> Generation Core™ i7/i5/i3 Processor Socket 1150Desktop Processor Q87 Chipset Based 22" LCD Panel PC 350cd/m <sup>2</sup> with 4 USB 2.0/6 USB 3.0/4x COM Ports/VGA /Dual Gigabit LAN, 300W Power Supply/RS-232 Touch Screen Controller and Sensor & Slim Socket 1155 CPU Cooler

