



## PPC-2128

21.5" 4th Gen Intel® ULT Core™ Processor i7/i5/i3  
Fanless Plastic Chassis Touch Panel PC

- > Onboard 4th Gen Intel® ULT Core™ i5 4300U 1.9GHz BGA Processor
- > 2 SODIMM up to 16 GB DDR3L SDRAM
- > 1 CF, 4 USB, 1 COM & 1 Mini-PCIe
- > 2 Intel Gigabit LAN, 2W Amplifier
- > Timer-Power-On
- > Fanless Operation, VESA Compliance
- > Programmable Function Key
- > IP-65 Compliant Front Panel
- > VESA Compliance

### + Spec

System	
<b>Processor</b>	4th Gen Intel® Core™ i5-4300U, 2-Core, 1.9GHz processor
<b>System Chipset</b>	Intel® Lynx Point-LP PCH
<b>System Memory</b>	2 x 204-Pin DDR3L 1600MHz SO-DIMM up to 16 GB
<b>I/O Chip</b>	EC ITE IT8528E
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
<b>H/W Status Monitor</b>	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
<b>SBC</b>	EBM-QM87U
Expansion	
<b>Expansion</b>	1 x Mini PCIe Supports mSATA
Storage	
<b>Storage</b>	1 x CompactFlash Type III Socket 1 x 2.5" Drive Bay
I/O	
<b>USB</b>	2 x USB 2.0 2 x USB 3.0
<b>COM Port</b>	1 x RS-232/422/485
Display	
<b>Chipset</b>	Intel® Lynx Point Integrated Graphics Supports dual display
<b>Resolution</b>	HDMI: Max. resolution 4000x2000 @ 25Hz LVDS: Max. resolution 1920x1200 @ 60Hz
Audio	
<b>Chipset</b>	Realtek ALC892 supports 5.1-CH
<b>Audio Interface</b>	Line-Out
<b>Speaker Output</b>	2 x 2W
Ethernet	
<b>Chipset</b>	1 x Intel® I210AT 1 x Intel® I218LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<b>Power Type</b>	AT/ATX (ATX is default setting)
<b>Operating Temp</b>	0°C ~ 40°C (32°F ~ 104°F)
<b>Storage Temp</b>	-10°C ~ 50°C (14°F ~ 122°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Weight</b>	7.2 Kgs
<b>Vibration Test</b>	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
<b>Shock Test</b>	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
<b>System Fan</b>	Fanless
<b>Construction - Front</b>	White Plastic
<b>Construction - Rear</b>	Grey Plastic
<b>Dimension</b>	542 X 382 X 63 mm
Certifications	
<b>Certification Information</b>	CE FCC Class B
Software Support	
<b>OS Information</b>	Win 8 Win 7 Linux
Power Requirement	



<b>Power Connector</b>	Lockable DC Jack
<b>Power Requirement</b>	+12V ~ +26V
<b>Adapter</b>	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter
<b>Panel</b>	
<b>LCD Panel</b>	21.5"
<b>Display Type</b>	Full HD
<b>Resolution</b>	1920x1080
<b>Pixel pitch</b>	0.248mm (H) x 0.248mm (V)
<b>Luminance</b>	250 cd/m <sup>2</sup>
<b>Contrast ratio</b>	1000
<b>Viewing angle</b>	80 (U), 80 (D), 85 (L), 85 (R)
<b>Response time</b>	5 ms
<b>Backlight</b>	LED
<b>Touch Type</b>	5 Wires resistive
<b>Touch Light Transmission</b>	80 %

### + Ordering

PPC-2128-430-A1R  
21.5" FHD i5-4300U 1.9GHz/2GR/32GSSD

ACC-MPCIE-WIFI04R  
Intel AC-7260R mini-PCIe WiFi halfcard Series

ACC-ARM-D1R  
VESA STAND, 75 & 100mm

ACC-CF-XX  
CompactFlash Card Series (xx=Capacity, Capacity Option: 128, 256, 512MB, 1, 2, 4, 8GB)