

PPC-3708A/3710A/3712A

Fanless



8.4"~12.1" Fanless Panel PC with Intel® Atom™ Processor

Features

1. 8.4"~12.1" TFT LCD with resistive touch screen
2. Intel® Atom™ Processor N270 CPU 1.6GHz for Ultra Low Voltage Fan-less support
3. System memory up to 2 GB DDR2 RAM
4. Dual 10/100 Mbps Ethernet
5. One Compact Flash® Type II socket
6. Optional 802.11 b/g wireless LAN module

Intel® Atom™ Processor Inside



Intel® Atom™ Processor



N270 with 512KB L2 cache
1.6GHz



Benefit

Embedded CPU makes the system more stable
Low power consumption increase the system life-cycle

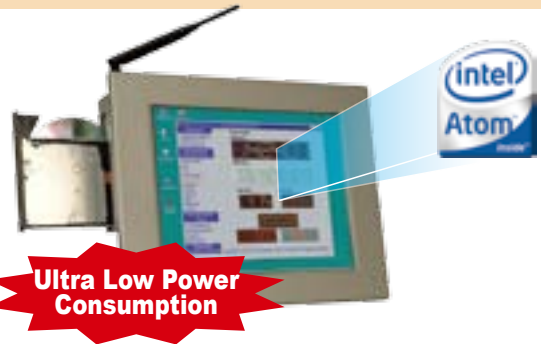


Dual Display

Specifications

Model	PPC-3708A/NANO-ATOM	PPC-3710A/NANO-ATOM	PPC-3712A/NANO-ATOM
LCD	LCD Size : 8.4" Resolution : 800 x 600 (SVGA) Brightness : 400 cd/m ² Contrast Ratio : 500:1 Viewing Angle (H-V) : 120°/100° Backlight MTBF : 50,000hrs	LCD Size : 10.4" Resolution : 800 x 600 (SVGA) Brightness : 400 cd/m ² Contrast Ratio : 500:1 Viewing Angle (H-V) : 120°/100° Backlight MTBF : 50,000hrs	LCD Size : 12.1" Resolution : 1024 x 768 (XGA) Brightness : 450 cd/m ² Contrast Ratio : 700:1 Viewing Angle (H-V) : 160°/160° Backlight MTBF : 50,000hrs
CPU	Intel® Atom™ Processor N270 1.6GHz with a 533Mhz FSB		
Chipset	Intel® 945GSE/ICH7M		
Memory	One 200-pin 533MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)		
VGA	Intel® 945GSE supports dual display		
SSD	CF Type II		
Drive Bay	1 x 2.5" SATA HDD Bay with Anti-Shock	1 x 2.5" SATA HDD Bay with Anti-Shock	1 x 2.5" SATA HDD Bay with Anti-Shock 1 x Slim Type CD-ROM Bay
Ethernet	Dual PCIe Realtek 8111CP GbE chipsets		
Audio	5.1 channel audio kit with Realtek ALC655 AC'97 codec		
I/O	2 x RS-232 1 x RS-232/422/485 2 x USB 2.0 1 x VGA	1 x PS/2 for KB/MS 2 x Giga LAN Port 3 x Audio (Line-in, Line-out, MIC-in) 1 x Power Jack (Lockable)	
Expansion Slot	1 x PCIe mini card for 802.11 b/g wireless LAN module (optional)		
Touch Screen	4-wire resistive type with RS-232 interface	5-wire resistive type with RS-232 interface	5-wire resistive type with RS-232 interface
Operating Temperature	- 10°C~50°C with CF Card 0°C~50°C with HDD		
Storage Temperature	- 20°C~60°C		
Vibration	5~17Hz 0.1" double amplitude displacement 17~640 Hz 1.5G acceleration peak to peak		
Shock	10G acceleration peak to peak. (11ms)		
Relative Humidity	5% ~ 95% @ 60°C, non-condensing		
Net/ Gross Weight	2.2 kg / 4.4 kg	3.4 kg / 5.8 kg	6 kg / 8 kg
Dimensions (W x H x D)	244 mm x 178 mm x 80 mm	311.5 mm x 242 mm x 77.8 mm	340 mm x 276.7 mm x 73.4 mm
Power Input	AC Adapter - P/N: 63000-FSP0841ADC11118-RS - AC Input : 90~240VAC@ 50/60Hz - DC Output : 84W, 12VDC		
Front Panel Protection Certificate	IP 65 Compliant Meets CE, FCC, CB, CCC		

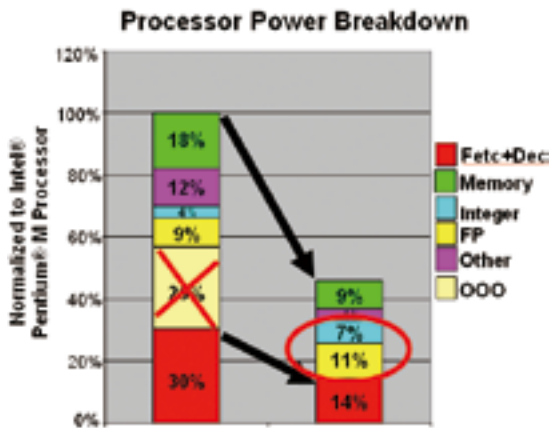
The IEI Intel® Atom™. Industrial PPC portfolio include the following size 8.4", 10.4" and 12.1". The 45 nm Intel® Atom. processor N270 has a 1.60 GHz clock speed and a 533 MHz FSB with a 512 KB L2 cache. The Intel® Atom. is interfaced through the 533 MHz FSB to an Intel® 945GSE graphics memory controller hub (GMCH) which is in turn interfaced through a high-speed direct media interface (DMI) to an Intel® Mobil ICH7-M I/O controller hub (ICH). The IEI Industrial Intel® Atom™. platforms are sophisticated, low-power PPC that provide the essential features for a low-cost, high-throughput system.



● ATOM Power Efficiency

New Microarchitecture design for Intel® Atom™ CPU, reduce 50% power consumption.

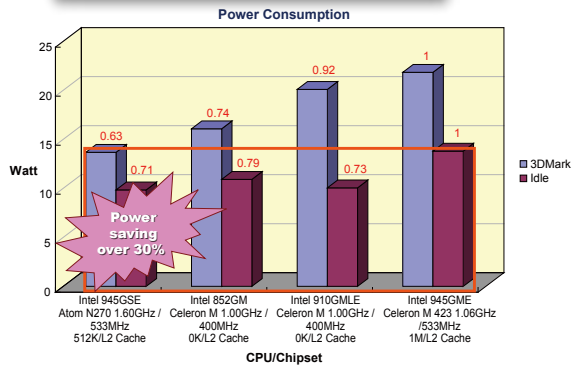
Reduce 50% Power Consumption



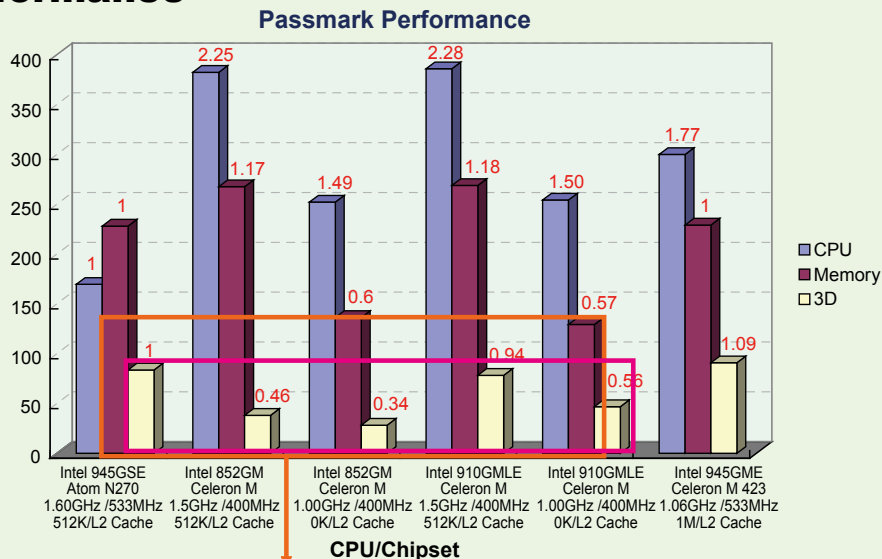
CPU Comparison Table (Intel® Celeron® M / Intel® Atom™)

Chipset	910GML	945GSE
Graphic Core	Intel® Graphics Media Accelerator 900	Intel® Graphics Media Accelerator 900
Frequencies	1.0 GHz	1.1 GHz, 1.6 GHz
Process Technology	90 nm	45nm
FSB	533 MHz	533 MHz, 400 MHz
TDP	5.5 W	2.5 W Win!!
L2 cache	512KB L2 Cache	512KB L2 Cache
Multi Media Instruction Support	SSE, SSE2	SSE, SSE2, SSE3
Low Power Features	-	Enhanced Intel SpeedStep® Technology Hardware Coordinated P & C States

Thermals
 • Intel® Atom™ processor- SC TDP= 2.5W;
 • 82945GSE TDP= 4W
 • ICH7M= 1.5W



● ATOM Performance



Memory Performance 40% better than Intel 915GME/1GZ & 852GM/1GZ
Graphic Performance 40% better than Intel 910GML/1GZ, 65% better than 852GM/1GZ

Optional WiFi Connection

Built-in 802.11 b/g Wi-Fi , which gives you up to broadband speed browsing and connectivity, compared to traditional wired LAN.

	802.11b	802.11g
Data Rate (Mbps)	11	54
Range (Radius indoor)	38 Meters	
Range (Radius outdoor)	140 Meters	
Radio Frequency	2.4 GHz to 2.5 GHz	



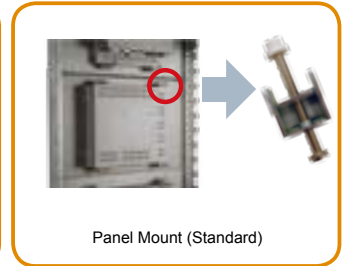
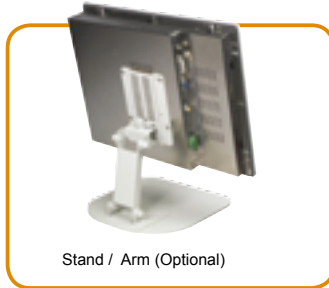
The PCI Express Mini Card replaces the Mini PCI card, which is a small internal card functionally identical to standard desktop computer PCI cards. Mini PCI cards are used mainly to add communications functions to portable computers that are built- or customized-to-order. The PCI Express Mini Card is half the size of the Mini PCI card.

Benefit

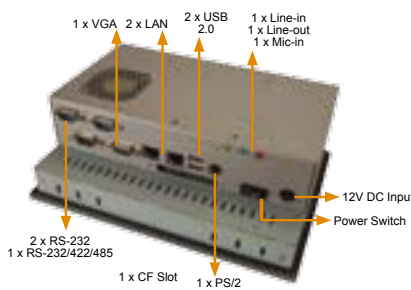
- * Half the size of Mini-PCI
- * Higher bandwidth interface
- * Rigid mechanical spec.



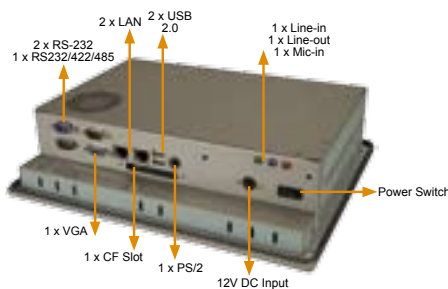
IQ Mount Supporting List



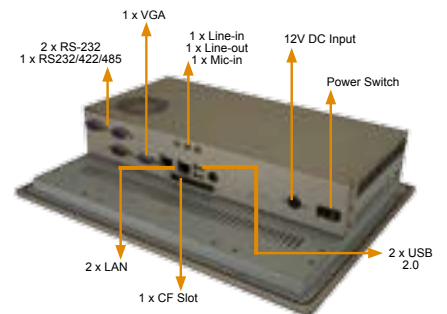
Dimensions (Unit: mm)



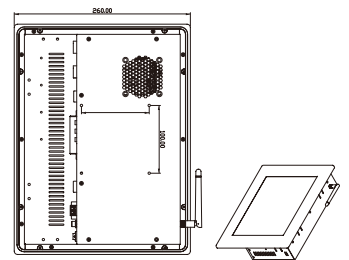
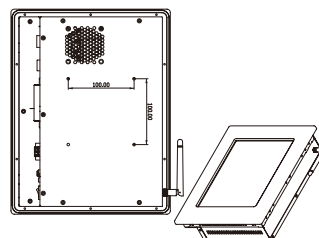
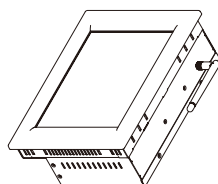
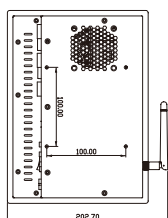
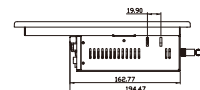
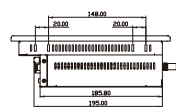
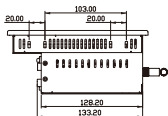
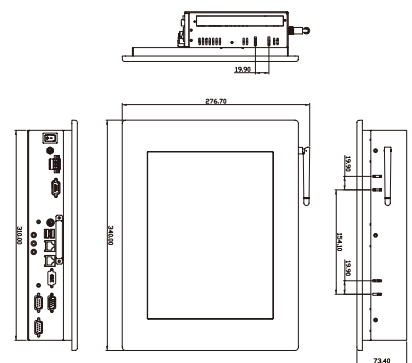
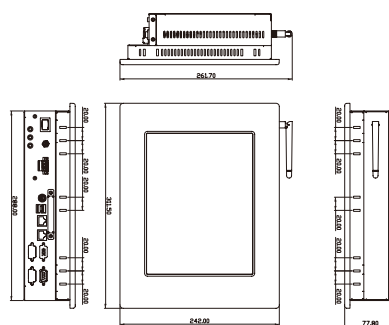
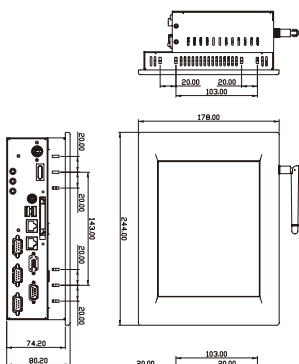
PPC-3708A



PPC-3710A



PPC-3712A



Packing List

Part No.	Description	Q'ty
PK-84M (for 8.4" PPC) PK-104M (for 10.4" PPC) PK-170M (for 12.1" PPC)	Panel mounting kit	1
WK-190MS-R10	Wall mounting kit	1
33100-000033-RS	Jumper Pack	1
32000-000002-RS	Power cord (European)	1
32000-000138-RS	PS2 keyboard/mouse Y-cable	1
19600-000205-RS	Screw kit	1
63000-FSP0841ADC11118-RS	Power Adapter	1
	User manual and driver CD	1
	Touch screen driver CD	1
	Touch pen	1

Mounting Kit Options

Part No.	Description
RK-084MS-R10 (for 8.4" PPC)	Rack mount kits
RK-104MS-R10 (for 10.4" PPC)	
RK-121MS-R10 (for 12.1" PPC)	
ARM-11-RS	LCD monitor Arm
STAND-100-RS/STAND-150-RS	LCD monitor Stand
DK-084MS (for 8.4" PPC)	Din mounting Kits

Ordering Information

PPC-3708A

	PPC-3708A/NANO-ATOM/T-R/1GB-R10	8.4" 400 cd/m ² SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, 1GB DDR2 RAM and touch screen, 12VDC input
WiFi	PPC-3708A/NANO-ATOM/WT-R/1GB-R10	8.4" 400 cd/m ² SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, 1GB DDR2 RAM and touch screen, built-in 802.11 b/g wireless with one PCIe mini expansion slot, 12VDC input

PPC-3710A

	PPC-3710A/NANO-ATOM/T-R/1GB-R10	10.4" 400 cd/m ² SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, 1GB DDR2 RAM and touch screen, 12VDC input
WiFi	PPC-3710A/NANO-ATOM/WT-R/1GB-R10	10.4" 400 cd/m ² SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, 1GB DDR2 RAM and touch screen, built-in 802.11 b/g wireless with one PCIe mini expansion slot, 12VDC input

PPC-3712A

	PPC-3712A/NANO-ATOM/T-R/1GB-R10	12.1" 450 cd/m ² XGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, 1GB DDR2 RAM and touch screen, 12VDC input
WiFi	PPC-3712A/NANO-ATOM/WT-R/1GB-R10	12.1" 450 cd/m ² XGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, 1GB DDR2 RAM and touch screen, built-in 802.11 b/g wireless with one PCIe mini expansion slot, 12VDC input