

Industrial Aluminum PPC-37 Series

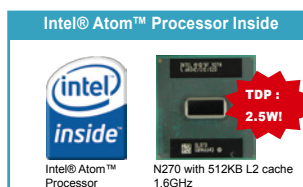
**PPC-3708**

Intel® Celeron® M/Intel® Atom™ N270 Processor with 8.4" SVGA TFT LCD and Touchscreen



**Features**

1. 8.4" TFT SVGA LCD
2. Supports 2 GB (max.) 400/533 MHz DDR2 SO-DIMM
3. Dual Ethernet
4. Fanless and ultra-low power consumption
5. Optional 802.11 b/g wireless LAN module
6. One CompactFlash® Type II socket
7. IP 65 compliant aluminum die-casting front panel
8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



**Specifications**

model		PPC-3708GHS/8522	PPC-3708GHS/9452	PPC-3708A/N270
Display	LCD Size	8.4"		
	Max Resolution	800(W) x 600(H)		
	Brightness (cd/m <sup>2</sup> )	400		
	Contrast Ratio	450 : 1		
	LCD Color	262K		
	Pixel Pitch (mm)	0.213(H) x 0.213(V)		
	Viewing Angle (V-H)	100° / 120°		
Backlight MTBF (hrs)		50,000		
SBC Model		NANO-8522	NANO-9452	NANO-945GSE-N270
Motherboard	CPU	Socket 479 2.1GHz (max.) Intel® Pentium® M Celeron® M with 400 MHz / 1 GHz or 600 MHz Intel® Celeron® zero cache CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB	Intel® Atom™ process N270 1.6GHz CPU
	Chipset	Intel® 852GM + ICH4	Intel® 945GM + ICH7M	Intel® 945GSE + ICH7M
	RAM	Supports one 266/200MHz DDR SO-DIMM (1GB Max.)	Supports one 400/533/667 MHz DDRII SO-DIMM (1GB Max.)	Supports one 400/533MHz DDRII SO-DIMM (2GB Max.)
I/O Ports and Switches		2 x RS-232 COM Port 1 x RS-232 COM Port (Alternative to RS-422/485) 1 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x 9-36VDC input Terminal block (Optional) 1 x 2.5" SATA/IDE HDD Bay	2 x RS-232 COM Port 1 x RS-232 COM Port (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x 2.5" SATA/IDE HDD Bay With anti-shook	2 x RS-232 COM Port 1 x RS-232 COM Port (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Audio (Line-in, Line-out, MIC-in) 1 x PS/2 (KB/MS) 1 x 12VDC input Power Jack 1 x Power Switch 1 x 2.5" SATA/IDE HDD Bay With anti-shook
Drive Bay	HDD Drive Bay SSD	1 x 2.5" SATA/IDE HDD Bay With anti-shook CF Type II		
Extension Slot		N/A	1 x Wireless LAN 802.11 b/g Module (internal Mini PCIe interface)	
Physical	Construction Front Panel	Aluminum		
	Construction Chassis	Heavy-duty Steel		
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		
	Front Panel Color	Silver (Pantone 8001C)		
	Dimension (WxHxD) (mm)	243.57 x 178 x 80.2	243.57 x 178 x 80.2	243.57 x 178 x 80.2
Net Gross Weight		2.2 Kg / 4.4 Kg	2.2 Kg / 4.4 Kg	2.2 Kg / 4.4 Kg
Environment	Operation Temperature (°C)	-10°C ~50°C		
	Storage Temperature (°C)	-20°C ~60°C		
	Vibration	5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to peak		
Shock		10G acceleration part to part (11ms)		
Touch Screen		Resistive Type 4-Wire with RS-232 interface		
Power Supply	AC / DC Power Adapter	For BGA Model - P/N: 63000-FSP060DBAB1553-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC	Power Adapter - P/N: 63000-FSP084DMBA1308-RS - 84W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC	Power Adapter - P/N: 63000-FSP084DMBA1308-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC
		For Socket Model - P/N: 63000-FSP084DMBA1308-RS - 84W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC		
Front Panel Protection		IP65 Compliant		
Certificate		Meets CE, FCC		
Ethernet		Intel® 82551ER for 10/100Mbps	2 x PCIe Broadcom BCM5787M GbE chipsets with ASF2.0 remote control support	Dual Realtek RTL8111CP GbE Controllers
Audio		AC' 97 2.3 Realtek ALC 655	AC' 97 2.3 Realtek ALC 883	Support by Audio Kit (AC'97 & HD) 5.1 channel AC' 97 2.3 Realtek ALC 655

1  
Automation Panel Solutions

2  
All-in-One Touch POS

3  
Digital Signage

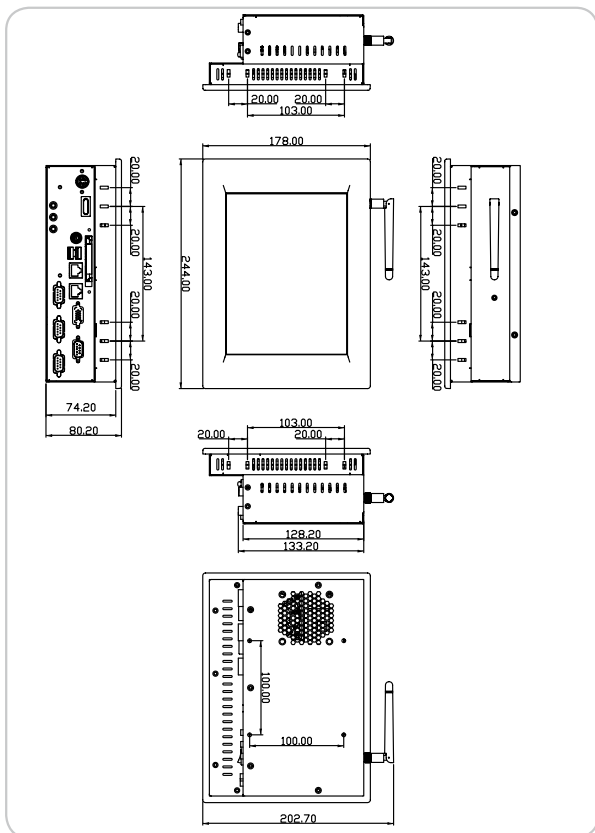
4  
Video Wall Controller

5  
RISC-based Solutions

6  
PACsmate Medical

7  
Optional Peripherals

## Dimensions (Unit: mm)



## Packing List

Description	Part Number	Amount
CD-ROM Installation Kit	19B00-000032-RS	1
Power Cord	32000-000002-RS	1
PS/2 Cable	32000-000138-RS	1
Jumper Pack	33100-000033-RS	1
Power Adapter (For GS Model Only)	63000-FSP060DBAB1554-RS - 60W 63000-FSP084DMBA1308-RS - 84W	1
Screw Kit	19600-000205-RS	1
HDD IDE Cable	32000-076800-RS (PPC-3708GHS/8522)	1
Panel Mounting Kit	PK-084M	4
Wall Mounting Kit	WK-190MS-R10	1
User Manual & Driver CD		1
Touch Screen Driver CD / Touch Pen ( For T-R model only)		1

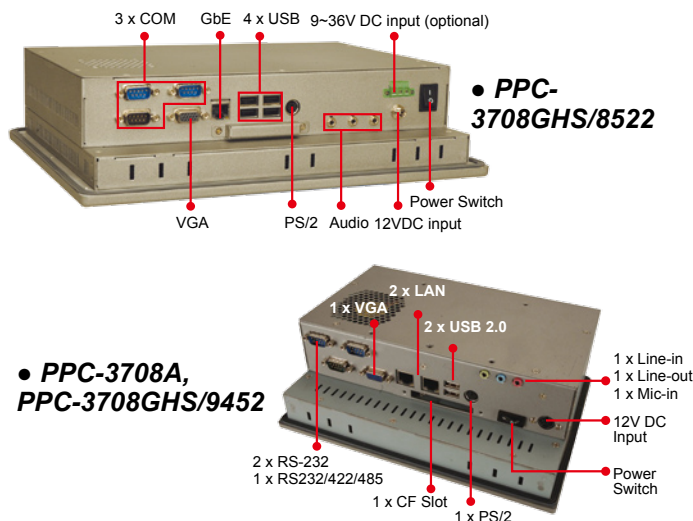
## Options

Panel Mounting Kit	PK-084M
Wall Mounting Kit	WK-190MS-R10
Rack mount kits	RK-084MS-R10
LCD Monitor Arm	ARM-11-RS
LCD Monitor Stand	STAND-100-RS
Din Mounting Kits	DK-084MS

## Ordering Information

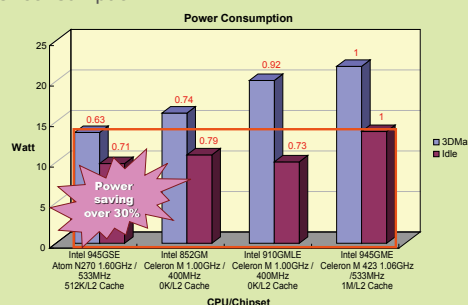
Intel® 852GM Platform	PPC-3708GHS/8522-1GZ/T-R/512MB-R12	8.4" 400 cd/m <sup>2</sup> SVGA TFT Panel PC with NANO-8522,CPU Celeron M 1.0GHz zero cache,Silver Color,512MB RAM and Touch Screen,RoHS
	PPC-3708GHS/8522-CM370/T-R/512MB-R12	8.4" 400 cd/m <sup>2</sup> SVGA TFT Panel PC with NANO-8522,CPU Celeron M 1.5GHz,Silver Color,512MB RAM and Touch Screen,RoHS
Intel® 945GM Platform	PPC-3708GHS/NANO-9452-CM440/T-R/1GB	8.4" 400 cd/m <sup>2</sup> SVGA TFT Panel PC with NANO-9452,CPU Celeron M 1.86Ghz,Silver color and Touch screen,w/1GB DDR2 RAM,RoHS
	PPC-3708GHS/NANO-9452-T5500/T-R/1GB	8.4" 400 cd/m <sup>2</sup> ; SVGA TFT Panel PC with NANO-9452,CPU Core™2 Duo 1.66GHz,Silver color and Touch screen,w/1GB DDR2 RAM,RoHS
Intel® Atom™ Platform	PPC-3708A/NANO-N270/T-R/1GB-R10	8.4" 400 cd/m <sup>2</sup> SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor,1GB DDR2 RAM and touch screen,12VDC iput

## Fully Integrated I/O



## Intel® Atom™ Power Efficiency

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



## Different Type for Different User

IEI always close to customer's needs through offering multiple choices.

BGA type CPU

With low power consumption, BGA type enhances thermal performance and system stabilities significantly.

Processor Number	Processor Generation (Architecture)	Clock Speed
705	Dothan 90nm	2.16 GHz
708	Dothan 90nm	2.06 GHz
709	Dothan 90nm	1.86 GHz
750	Dothan 90nm	1.86 GHz
745	Dothan 90nm	1.86 GHz
740	Dothan 90nm	1.73 GHz
735	Dothan 90nm	1.70 GHz
730	Dothan 90nm	1.66 GHz
725	Dothan 90nm	1.66 GHz
715	Dothan 90nm	1.58 GHz
758	Dothan 90nm	1.58 GHz
738	Dothan 90nm	1.48 GHz
733	Dothan 90nm	1.28 GHz
733J	Dothan 90nm	1.18 GHz
733	Dothan 90nm	1.18 GHz
723	Dothan 90nm	1.0 GHz
713	Santitas 130nm	1.16 GHz

For performance-oriented users, socket type allows customers to easily upgrade processors from Pentium® M 1.1GHz to 2.1GHz.

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6 PACS/mate Medical

7 Optional Peripherals