

## PCM4-H77 - Marine Computer



**PCM4-H77** enables the new Ivy Core i3, Core i5 and Core i7 Intel CPU for marine and naval mission critical applications.

**PCM4- H77** is tested for full compliance to IACS E10, IEC60945, EN61000-6-2 and EN61000-6-4 and holds certificates from major class societies.

The PCM4 cabinet allows for flexible installation, bolted to a surface using the mounting-angles, and/or mounted in a 19" rack using the optional "rack-ears" and handles.

The **PCM4- H77** features a new 5¼" Option that combines a Removable Solid State Drive and a Slide-in DVD drive.

- Thermal and mechanical designed cabinet.
- State-of-the-art Computer technology.
- Intel **H77** Chipset
- Ivy Core i3, i5 and i7 Intel CPU
- Intel HD Graphics
- Rugged and compact design.
- Vibration-proof hard disk drive.
- High grade low noise fan.
- Compliance with IEC60945 ed. 4 and IACS E10 rev. 5
- Holds major type-approval certificates.

# Specifications

## PCM4-H77 - General

<b>CPU:</b>	<b>Core™ i3-3220 (2 Cores, 4 Threads)</b> <i>Optional Core™ i5-3550S (4C/4T)</i> <i>Optional Core™ i7-3770 (4C/8T)</i>
<b>Chipset:</b>	<b>Intel® H77 Express</b> <i>64Bits, Hyper-Threading and Virtualization Technology with Enhanced SpeedStep® and Turbo Boost Technology</i> <i>5GT/s Direct Media Interface</i>
<b>Memory:</b>	<b>1 GB DDR3 RAM 1066 MHz (Standard)</b> <b>Optional Upgrades</b> <i>4 DIMM sockets supporting up to a total of 16GB DDR3 1066/1333/1600 RAM</i>
<b>Video:</b>	<b>On-CPU Intel HD Graphics 2500 (Core i3/i5) / 4000 (Core i7)</b> <i>The maximum supported resolution is 1900 x 1200 (WUXGA)</i> <i>DirectX 10.1 and OpenGL 3.0 compliant</i> <i>DirectX 11.0 CS4.0 only / Shader model 4.0</i> <i>Dual independent display support</i> <i>Optional PCIe x16 graphics card</i>
<b>Audio:</b>	<b>10-channel (7.1 + 2) Intel High Definition Audio (Realtek ALC892 audio Codec)</b>
<b>Ethernet:</b>	<b>10/100/1000 Mbit/sec Ethernet (RJ45) – onboard</b>
<b>Hard Disk Drive:</b>	<b>100+GB 2.5", SATA (Standard)</b> <b>Optional Upgrades</b> <i>Sizes up till 500GB, 24/7 rated disk, 2.5" SATA</i> <i>Solid State Disc 80,100,120,160,200... 800 GB</i>
<b>5¼" drive bay:</b>	<b>DVD-R/W Drive (SATA interface)</b> <i>Optional Combined Removable Solid State disk drive and Slide-in DVD drive</i>

## PCM4-H77 - Ports

<b>Video:</b>	<b>HDMI+DVI-I + DisplayPort video out</b>
<b>Audio:</b>	<b>5x 3.5mm jack socket, Optical S/PDIF out</b>
<b>Ethernet:</b>	<b>1x RJ45</b>
<b>Serial:</b>	<i>Optional 1 x RS232 un-isolated. Routed to back from Motherboard header.</i>
<b>USB:</b>	<b>4x USB 3.0 ports (2 on back and 2 on internal header)</b> <b>10x USB 2.0 ports (4 on back, 2 on internal header, 2 via Mini PCIe and 2 accessible from front)</b>
<b>SATA:</b>	<b>RAID 0,1,5,10 supported by onboard Intel Rapid Storage Technology</b> <b>2x 6.0Gb/s, 3x 3.0Gb/s (1 port shared with mSATA on Mini PCIe)</b>
<b>eSATA:</b>	<b>1x eSATA 3.0Gb/s (on back)</b>
<b>Expansion Slots:</b>	<b>1x PCI Express x16, 1x PCI Express x4, 1x PCI Express x1, 3x PCI 1x PCI Express Full-/Half-Mini Card slot with support for mSATA</b>

## PCM4-H77 – Power

<b>Standard:</b>	<b>90-264 VAC, 50-60 Hz, max 300 Watt Typ 35-130Watts</b>
<b>Automotive:</b>	<b>18-36 VDC max 300 Watt Typ 35-130Watts</b>

## PCM4-H77 – Environmental

<b>Operating Temperature:</b>	<b>-15 to 55 °C</b>
<b>Storage Temperature:</b>	<b>-25 to 70 °C</b>
<b>Relative Humidity:</b>	<b>8 to 90 %</b>

## PCM4-H77 - Approvals

<b>CE Mark:</b>	<b>EN61000-6-2 &amp; EN61000-6-4</b>
<b>Marine:</b>	<b>IACS E10 rev. 5 &amp; IEC 60945 Ed. 4</b>
<b>Type Approvals:</b>	<b>DNV, ABS</b> <i>For latest marine class approvals – see <a href="http://www.isic-systems.com">www.isic-systems.com</a></i>

## PCM4-H77 - Dimensions

<b>Basic Version:</b>	<b>420 x 132 (3U) x 380 mm</b>
<b>Brackets:</b>	<b>Mounting-angles - Optional 19" brackets for 19" rack-mount (on shelf)</b>
<b>Weight:</b>	<b>11 Kg</b>