

## PCM4-Q87 - Marine Computer



**PCM4-Q87** enables the new Haswell Core i3, Core i5 and Core i7 Intel CPU for marine and naval mission critical applications.

**PCM4-Q87** is tested and holds certificates from major classes.

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-Q87** features a new 5¼" Option that combines a Removable Solid State Drive and a Slide-in DVD drive.

- State-of the-art Computer technology.
- Intel **Q87** Chipset
- Haswell Pentium, 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. 6
- Holds major type-approval certificates.

# Specifications

## PCM4-Q87 - General

<b>CPU:</b>	<b>Core™ i3-4360 (2 Cores, 4 Threads)</b> Optional Core™ i5-4590S (4C/4T) Optional Core™ i7-4790S (4C/8T) Optional Pentium G3420 Dual Core
<b>Chipset:</b>	<b>Intel® Q87</b> 64Bits, Intel® Virtualization Technology, Intel® vPro Technology, Intel® ME v9.0, Intel® Rapid Storage Technology, Intel® Smart Connect Technology, Intel® Smart Response Technology, Intel® Stable Image Platform Program (SIPP), Supports Hyper-Threading, Enhanced SpeedStep® and Turbo Boost Technology
<b>Memory:</b>	<b>4 GB DDR3 RAM 1600 MHz (Standard)</b> <b>Optional Upgrades</b> 4 DIMM sockets supporting up to a total of 32GB DDR3 1333/1600 RAM
<b>Video:</b>	<b>On-CPU Intel HD Graphics 4600</b> The maximum supported resolution is 4096x2160 (HDMI) OpenGL 4.0, OpenCL 1.2 compliant DirectX 11.1 / Shader model 5 Tripple independent display support Optional PCIe x16 graphics card
<b>Audio:</b>	<b>6-channel Audio (Realtek ALC887)</b>
<b>Ethernet:</b>	<b>1x 10/100/1000 Mbit/sec Ethernet Intel® PHY I217LM (support AMT 9.0)</b> <b>1x 10/100/1000 Mbit/sec Ethernet Intel® I210AT</b> Optional 1,2 or 4x RJ45 on add-on card
<b>Hard Disk Drive:</b>	<b>80+GB 2.5", SATA (Standard)</b> <b>Optional Upgrades</b> 500GB and 1TB, disk, 2.5" SATA Solid State Disc 80GB, 100GB... up to 1600GB
<b>5¼" drive bay:</b>	<b>DVD-R/W Drive (SATA interface)</b> Optional Combined Removable Solid State disk drive and Slide-in DVD drive

## PCM4-Q87 - Ports

<b>Video:</b>	<b>HDMI + DP + DVI-D + VGA video out</b>
<b>Audio:</b>	<b>3x 3.5mm jack socket (Line in, Line out, Mic in)</b>
<b>Ethernet:</b>	<b>2x RJ45</b>
<b>Serial:</b>	<b>1x RS232/422/485 un-isolated</b> Optional 2 x RS232 un-isolated.
<b>USB:</b>	<b>4x USB 3.0 ports on back</b> <b>10x USB 2.0 ports (2 on back, 6 on internal headers and 2 on front)</b>
<b>SATA:</b>	<b>6x 6.0Gb/s SATA</b> <b>RAID 0,1,5,10 supported by onboard Intel Rapid Storage Technology</b>
<b>Expansion Slots:</b>	<b>1x PCI Express x16, 1x PCI Express x4, 1x PCI Express x1, 3x PCI</b>

## PCM4-Q87 – Power

<b>Standard:</b>	<b>90-264 VAC, 50-60 Hz, max 300 Watt Typ 35-130Watts</b> 18-36 VDC max 300 Watt Typ 35-130Watts optional
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## PCM4-Q87 – 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 95 %</b>

## PCM4-Q87 - Approvals

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

## PCM4-Q87 - 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>