

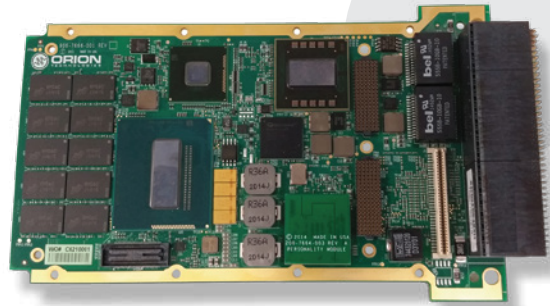


A Phoenix Mecano Company



# VPX7666 ■

3U VPX 5th Gen. Intel® Core™ i7  
Single Board Computer  
(Air or Conduction Cooled)



Your Partner in Embedded Solutions

## Features

- Multi-Core 5th Generation Intel® Core™ i7 Processor
- QM87 PCH Chipset
- Extended temperature and rugged REDI (Vita 48.2)
- Up to 16GB of soldered DDR3 SDRAM with ECC
- Up to 64GB of on-board NAND Flash
- Up to four serial ports
- Up to eight GPIO
- Up to two USB 3.0 and three USB 2.0
- Up to two SATA 6.0 Gb/s ports
- Two 10GbE Base-T ports
- Three 4-lane PCIe 3.0 expansion on P1
- On-board temperature monitoring
- LPC accessible Trusted Platform Module 1.2
- Anti-tamper features available
- XMC P16 and PMC P14 rear I/O
- PCIe Switch to OpenVPX Backplane providing non-transparent port and DMA capabilities
- Various Board Support Packages (BSPs) available including Linux, Wind River VxWorks & Windows

Orion has successfully generated products utilizing an extensive assortment of microprocessors since 1990. Our single board computer product offering includes both custom and standard form factors such as VPX, VME, Compact PCI, XMC, and PMC.

Whether it's a small quantity, one-time requirement or a high volume product for years to come, we would like to be your partner in embedded solutions

## Ordering Options

VPX7666-ABCD

### A - Processor Options

- 1 = i5-5350H (Dual Core, 3.1GHz)
- 2 = i7-5700EQ (Quad Core, 2.6GHz)
- 3 = i7-5850EQ (Quad Core, 2.7GHz) (Iris Pro)

### B - Memory Options

- 1 = 4GB RAM, 16GB NAND
- 2 = 8GB RAM, 16GB NAND
- 4 = 16GB RAM, 64GB NAND
- 5 = 16GB RAM, NO NAND

### C - Pin-out Options (Based on Personality Module)

- 1 = 1x HDMI, 1x USB 3.0, 2x USB 2.0, 2x RS-232, 2x RS-422
- 2 = 4x RS-422, 2x SATA, 8x GPIO
- 3 = 1x HDMI, 1x USB 3.0, 2x USB 2.0, 2x RS-232, 2x SATA

### D - Environmental

- 1 = Air-cooled, 0 to +55°C Operating Temp.
- 2 = Air-cooled, -40 to +55°C Operating Temp.
- 3 = Air-cooled, -40 to +70°C Operating Temp.
- 4 = Conduction-cooled, -40 to +70°C Operating Temp.
- 5 = Conduction-cooled, -40 to +85°C Operating Temp.
- 6 = Secondary side conduction-cooled, -40 to +85°C Operating Temp.
- 7 = High-Performance heatframe

For a more in-depth analysis visit our website at [www.oriontechnologies.com](http://www.oriontechnologies.com)



SAI GLOBAL  
AS9100  
Aerospace



# Block Diagram

