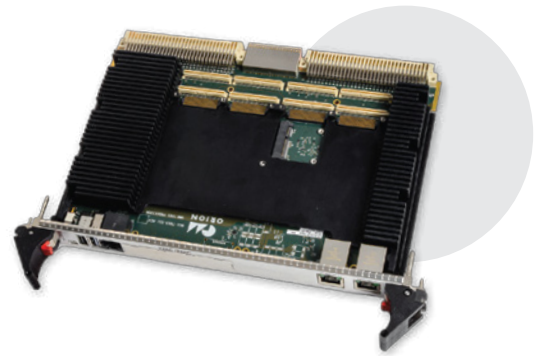




A Phoenix Mecano Company

# VME7663 ■

Rugged 6U VME64x Intel® Core™ i7  
5th Gen. Single Board Computer  
(Air or Conduction cooled)



Your Partner in Embedded Solutions

## Features

- 6U VME64x 5th Gen. Intel® Core™ i7 SBC
- 16GB DDR3 SDRAM with ECC
- Up to two 64GB NAND Flash
- Xilinx Artix-7 VME64x bridge with support for 2eSST and 2eVME
- Mini PCIe/mSATA connector with USB capability
- Up to seven available USB 2.0 ports
- Up to three available USB 3.0 ports
- One eSATA 6.0Gbps and two SATA 1.5Gbps
- Four serial ports
- Four available 1GbE Base-T ports
- Two available HDMI ports
- Two PMC/XMC sites
- I<sup>2</sup>C accessible Trusted Platform Module 2.0
- Anti-tamper features available
- Various Board Support Packages (BSP) available including Linux, WindRiver VxWorks, and Windows

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

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

VME7663-ABCDEF

- A - Processor Options
  - 1 = Reserved
  - 2 = i7-5700EQ Quad Core 2.6GHz (3.4GHz Max)
  - 3 = i7-5850EQ Quad Core 2.7GHz (3.4GHz Max) with Iris Pro Graphics
- B - Memory Options
  - 1 = 16GB RAM
- C - Onboard Storage
  - 1 = 64GB Primary NAND, No Secondary NAND
  - 2 = 64GB Primary NAND, 8GB Secondary NAND
  - 3 = 64GB Primary NAND, 64GB Secondary NAND
- D - I/O Options
  - 1 = HDMI, 8x GPIO, 2x USB 3.0, 2x USB 2.0, 2x SATA, two Front Panel GigE Ports, one available PMC/XMC site
  - 2 = HDMI, 8x GPIO, 2x USB 3.0, 2x USB 2.0, 2x SATA, one Front Panel GigE Port, two available PMC/XMC sites
- E - Removable Storage
  - 0 = None installed
  - 1 = Contact Factory
- F - 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 = Primary side conduction-cooled, -40 to +70°C Operating Temp.
  - 5 = Primary side conduction-cooled, -40 to +85°C Operating Temp.
  - 6 = Secondary side conduction-cooled, -40 to +85°C Operating Temp.



# Block Diagram

