



Designed especially for the U.S. Navy, the Vortex RS112 delivers the full functionality of a powerful workstation in a convenient 1U rack mount form factor, and is deployable both shipboard and ashore

Performance and Dependability

The Vortex RS112 Workstation delivers a powerful and reliable desktop engineered to fit perfectly in tight spaces. The short 18" depth is ideal for all industry standard racks. The Vortex RT's 1U chassis has been tuned to maintain its mission-critical operational state at all times. It features Intel's® 6th generation Core™ i7/i5/i3 or Xeon E3-1200 v5 processors, up to 64GB DDR4 memory, and dual Gigabit Ethernet LAN. With the RS112, you'll gain the power to deploy new business-class applications and excellent support for diverse operating systems.

Engineered to Excel

Although the Vortex RS112 is a rugged rack mount version of the legacy Small Form Factor Workstation, each component has been scrutinized for its extended shelf life ensuring the first system rolling off the manufacturing line is identical to the last. Vortex RS112 has been designed to meet the requirements of Shock (MIL-STD 901D Grade A), Harmonic Vibration (MIL-STD 167-1), Temperature, Humidity, and Altitude (MIL-STD 810-G).

Drive Three Independent Displays Simultaneously

The Vortex RS112 Workstation features integrated Intel HD Graphics delivering superb visual performance for sharper images, richer color, and lifelike video, as well as total display flexibility that includes HDMI, DisplayPort and DVI-D connectivity – great for multitasking, and even better for productivity.

Vortex RS112 1U Workstation

Form Factor

- 1U short-depth rack mount

Processor

- Supports Intel 1151 single socket processor:
 - Intel Xeon E3-1200 v5 processors
 - Intel 6th Gen Core i7/i5/i3 processors
 - Intel Pentium and Celeron processors

Chipset

- Intel C236

System Memory

- 4x DIMM DDR4 2400MHz ECC/non-ECC, un-buffered memory
 - Max. memory 64GB

Integrated Video

- Integrated graphics processor
- Multi-VGA output support : HDMI/DVI-D/DisplayPort ports
 - Supports HDMI with max. res. 4096x2160 @60Hz/4096x2160 @24Hz
 - Supports DVI-D with max. res 1920x1200 @60Hz
 - Supports DisplayPort with max. res. 4096x2304 @60Hz
- Maximum shared memory of 512 MB
- Supports Intel HD Graphics, InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™

Integrated Audio

- Realtek® ALC1150 8-Channel High Definition Audio CODEC
 - Supports: jack-detection, multi-streaming, front panel MIC Jack-retasking

Integrated I/O

- Front panel connectors:
 - 2x USB 2.0 ports, headphone & microphone-in
- Back panel connectors:
 - 2x RJ-45 ports, 1x HDMI port, 1x DVI-D port, 1x DisplayPort, 6x audio jacks (mic-in, line in, front speakers out, rear speakers out, center/subwoofer out, middle speakers out), 2x USB 2.0 ports, 2x USB 3.1 ports, and 1x SPDIF out

Integrated Gigabit

- Dual Intel i210 Gigabit Ethernet (10/100/1000 Mbit) controllers
 - Supports Teaming Technology

Integrated SATA/RAID

- 8x SATA 6Gb/s ports:
- 1x M.2 Socket 3*2, with M Key, type 2242/2260/2280/22110 Storage devices support (both SATA & PCIE mode)
- Support Raid 0, 1, 5, 10
- Supports Intel Rapid Storage Technology Enterprise

Security

- Optional TPM 2.0 module

Drive Bays

- External: 2x 2.5" hotswap bays, 1x slim ODD

Dimensions (H x W x D)

- 16.9" x 7.9" x 18.3"
- 429.26mm x 200.66mm x 464.82mm

Power Supply

- Input voltage: 100-240 VAC
- Input frequency: 50/60 Hz
- Min. output: 250W Flex ATX PSU
- Form factor: ATX
- Power factor correction: Active PFC
- Efficiency: >90% at normal input voltage

Certifications

- EMI/RFI: FCC Declaration of Conformity (DoC)
- Other: NIST 800-147 Compliant BIOS

Fans

- 4x 40x28mm internal fans



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