NEXT COMPUTING

VIGOR EX

Rugged, High-Performance Computing In Tough Environments

Graphics- or processing-intensive applications like geospatial imagery analysis, UAV ground control, or HD digital video processing require very powerful computer hardware.

However, for mobile deployments where size, weight, power, and cooling (SWaP-C) are a concern, typical rackmount servers are just too large, heavy and power consuming.

The Vigor EX is the perfect solution to overcome these problems.

This compact system is designed to handle the same compute-hungry tasks normally assigned to full-sized systems. Now you can replace larger rackmount hardware with an all-in-one workstation that is easier to transport and set up.

Rely on Vigor EX to tackle your mission-critical applications—from anywhere!

Enterprise-class architecture for demanding mission critical application

Replace bulky rackmount servers with an all-in-one system

Transport high-performance computing quickly and easily

Depend on NextComputing to support your programs for years to come

VIGOR EX

Available CPUs	Single or dual processors (dependent on choice of motherboards) • Intel Core i7, quad-, or six-core • Intel Xeon, up to twelve-core
Memory	Up to 256GB DDR3 RAM (ECC), or 64GB DDR3 RAM (non-ECC)
PCI Expansion	Up to (7) full-length, full-height PCI Express slots
Removable Storage	Up to (10) removable SATA, SAS, or Solid State drives
Fixed Storage	• Up to (18) internal, fixed SATA or SAS hard drives • Up to (20) internal, fixed Solid State drives Note: mutually exclusive with some removable drive configurations
RAID	Multiple SATA/SAS ports with RAID 0/1/5/10 options
Optical Drive	Internal DVD±RW or Blu-Ray RW
Display	• Integrated 17.3" LED LCD with up to 2 additional swing-out displays (1920x1080 each) • Optional capacitive touchscreen (center display only) • Support for external displays
Operating Systems	• Microsoft Windows 7, Vista, XP Professional, 2008 Server • Linux also available in certain configurations
Power Supply	• 460W or 700W Whisper Technology 110/220V 50/60Hz auto-switching 80 PLUS rated power supply • Optional internal 460W/24V DC nominal (19V-36V DC range) power supply
Filtration	Optional dust filter kits are available. Filtration material features cable exits for system operation while the filters are attached
Regulations	FCC Class A, and CE. Certified TUV
Physical	7.92" (D) x 17.28" (H - with top handle folded, 18.22" with handle up) x 19.63" (W), ~ 48 lbs.
Carrying Cases	Optional padded carrying cases or rugged rolling transit cases available

Pictured with single swing-out display

Pictured with single display with monitor cover

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VIGOR EX

Model	AX79EWS	AC206
Available CPUs	• Single Intel Core i7, up to 3.4GHz six-core • Single Intel Xeon E5-1600, E5-2600, E5-2600v2 series, up to 2.7GHz twelve-core	• Single Intel Core i7, up to 3.4GHz quad-core • Single Intel Xeon, 3.5GHz quad-core
Memory (up to)	64GB DDR3 RAM	32GB DDR3 RAM (ECC or non-ECC)
PCI Expansion	• (2) PCI Express 3.0 x16 (x16 or x8/x8 elec.) • (2) PCI Express 3.0 x16 (x16 elec.) • (3) PCI Express 3.0 x16 (x8 elec.)	• (2) PCI Express 2.0 x16 (x16 or x8/x8 elec.) • (2) PCI Express 2.0 x16 (x4 elec.) • (1) PCI Express 2.0 x1 (x1 elec.) • (1) PCI 32-bit/33MHz
Available Drive Capacities / Features	• SATA: up to 1TB each • SAS: up to 1.2TB each • Solid State Drives: up to 960GB each • Encryption options available	
Removable Storage	Up to (8) internal, no-tools removable SATA, SAS or Solid State hard drives	Up to (10) internal, no-tools removable SATA, SAS, or Solid State hard drives
Fixed Storage	• Up to (18) internal, fixed SATA or SAS hard drives • or up to (20) internal, fixed Solid State drives Note: mutually exclusive with some removable drive configurations	
RAID	Onboard SATA RAID 0/1/5/10, or via add-on PCIe RAID controller	
Optical Drive	Internal DVD±RW or Blu-Ray RW	
Onboard Video	None (must use add-in GPU)	Integrated Intel HD Graphics (processor dependent)
Display	• Integrated 17.3" LED LCD with up to 2 additional swing-out displays (1920x1080 each) • Optional capacitive touchscreen (center display only) • Support for external displays	
Ports	• (2) USB 3.0 ports • (8) USB 2.0 ports • (2) RJ-45 LAN • (1) IEEE-1394a • (1) optical S/PDIF out • (6) audio ports • (1) PS/2 keyboard • (1) PS/2 mouse	• (3) USB 3.0 ports • (6) USB 2.0 ports • (2) RJ-45 LAN (GbE) • (1) DVI-I • (1) IEEE-1394a (FireWire 400) • (1) PS/2 keyboard/mouse combo • (1) S/PDIF coaxial audio out, (1) S/PDIF optical audio out • (6) analog audio ports
Operating Systems	• Microsoft Windows 7, Vista, XP Professional, 2008 Server • Linux also available in certain configurations	
Power	• 460W or 700W Whisper Technology 110/220V 50/60Hz auto-switching 80 PLUS rated power supply • Optional internal 460W/24V DC nominal (19V-36V DC range) power supply	
Environmental	• Operating: 0°C–40°C / 32°F–104°F. Non-Operating: -40°C–65°C, -40°F–149°F. Relative humidity (5-95%) non-condensing • Shock: Mechanical shock: ≤10g, 11ms, Terminal sawtooth, operating; Transit shock: 18" drop • Vibration: ≤0.04g2/Hz, 20Hz–1,000Hz; -6dB/octive 1,000Hz–2,000Hz	
Filtration	Optional dust filter kits are available. Filtration material features cable exits for system operation while the filters are attached	
Regulations	FCC Class A, and CE. Certified TUV	
Physical	7.92" (D) x 17.28" (H - with top handle folded, 18.22" with handle up) x 19.63" (W), ~ 48 lbs.	
Carrying Cases	Optional padded carrying cases or rugged rolling transit cases available	
Warranty	1 year parts and labor	

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Model	SC602	SC602L	SC606	AC602
Available CPUs	• Single Intel Xeon E5-1600, E5-2600, E5-2600v2 series, up to 2.7GHz twelve-core		• Single or dual Intel Xeon E5-1600, E5-2600, E5-2600v2 series, up to 2.7GHz twelve-core	
Memory (up to)	256GB DDR3 RAM (ECC)			
PCI Expansion	• (2) PCI Express 3.0 x16 • (1) PCI Express 3.0 x8 (x4 elec.) • (1) PCI Express 2.0 x8 (x4 elec.) • (1) PCI 32-bit / 33MHz	• (2) PCI Express 3.0 x16 (x8 elec.) • (2) PCI Express 3.0 x8 • (2) PCI Express 3.0 x8 (x4 elec.) • (1) PCI Express 2.0 x8 (x4 elec.)	• (3) PCI Express 3.0 x8 • (1) PCI Express 2.0 x8 (x4 elec.) • (1) PCI Express 2.0 x1 • (1) PCI 32-bit / 33MHz	• (2) PCI Express 3.0 x16 • (2) PCI Express 3.0 x8 • (1) PCI Express 2.0 x8 (x4 elec.)
Available Drive Capacities / Features	• SATA: up to 1TB each • SAS: up to 1.2TB each • Solid State Drives: up to 960GB each • Encryption options available			
Removable Storage	Up to (10) internal, no-tools removable SATA, SAS or Solid State hard drives		Up to (8) internal, no-tools removable SATA, SAS or Solid State hard drives	
Fixed Storage	• Up to (18) internal, fixed SATA or SAS hard drives • or up to (20) internal, fixed Solid State drives Note: mutually exclusive with some removable drive configurations			
RAID	Onboard RAID 0/1/5/10			
Optical Drive	Internal DVD±RW or Blu-Ray RW			
Onboard Video	Matrox G200eW—for external display only		Aspeed AST2300	
Display	• Integrated 17.3" LED LCD with up to 2 additional swing-out displays (1920x1080 each) • Optional capacitive touchscreen (center display only) • Support for external displays			
Ports	• (4) USB 3.0 ports • (8) USB 2.0 ports • (6) USB 2.0 internal headers • (2) RJ-45 LAN (GbE) • (1) VGA port • (2) serial port headers • (3) audio ports	• (2) USB 2.0 ports • (6) USB 2.0 internal headers • (1) USB 2.0 internal port • (2) RJ-45 LAN (GbE) • (1) VGA port • (2) PS/2 keyboard/mouse ports • (2) serial ports (1 external, 1 internal header)	• (4) USB 2.0 ports • (4) USB 2.0 internal headers • (1) USB 2.0 internal port • (2) RJ-45 LAN (GbE) • (2) serial ports (1 external, 1 internal header)	• (2) USB 3.0 ports • (4) USB 2.0 ports • (2) RJ-45 LAN (GbE) • (1) Management Connector • (1) PS/2 keyboard/mouse • (1) serial port
Operating Systems	• Microsoft Windows 7, Vista, XP Professional, 2008 Server • Linux also available in certain configurations			
Power	• 460W or 700W Whisper Technology 110/220V 50/60Hz auto-switching 80 PLUS rated power supply • Optional internal 460W/24V DC nominal (19V-36V DC range) power supply			
Environmental	• Operating: 0°C–40°C / 32°F–104°F. Non-Operating: -40°C–65°C, -40°F–149°F. Relative humidity (5-95%) non-condensing • Shock: Mechanical shock: ≤10g, 11ms, Terminal sawtooth, operating; Transit shock: 18" drop • Vibration: ≤0.04g2/Hz, 20Hz–1,000Hz; -6dB/octive 1,000Hz–2,000Hz			
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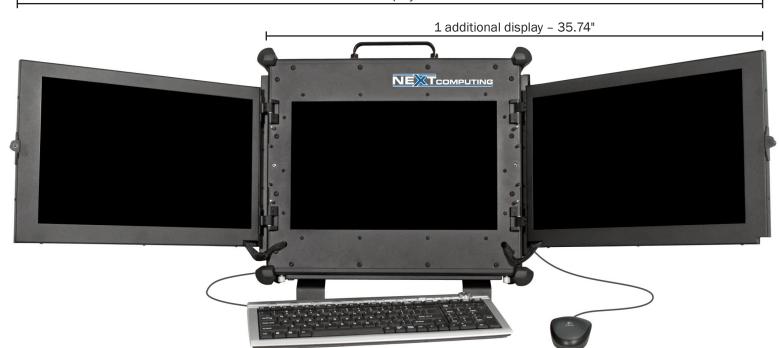
Single display

7.92"

Multi display folded

1 additional display – 8.48"
2 additional displays – 9.12"

Multi display with
protective cover

9.18"

2 additional displays – 51.87"

1 additional display – 35.74"

* Screens opened at standard 160° viewing angle