



901 Cliff Road E -- Burnsville, MN 55337
 1-8601-5250 or 952-808-1007 or Fax: 952-229-2061
 Contact: Bob Dreis bdreis@reasonco.com
 www.nor-tech.com

Quoted To:
Nor-Tech Personal Cluster 1500

Quote#



April 22, 2015



Nor-Tech Clusters:
 TOTAL SOLUTIONS, INSIDE & OUT
 Visit nor-tech.com/why to find out what sets Nor-Tech apart in the HPC industry



The WorkGroup Cluster

Cluster	Custom Configured with Rocks Cluster Management Suite and Job Scheduler	1	\$ 21,999.00
---------	---	---	--------------

Chassis

Chassis	12U SmartRack Deep Rack Enclosure Cabinet	1	
PDU	Includes Power Distribution Unit	Included	
Casters	Includes Casters and Leveling Feet	Included	

Head Node

Platform	2U Twin*2 Quad 6x 3.5in Hot-Swap bays, Redundant 2000W power st	1	
Processors	Intel Six Core Xeon E5-2620v3 2.4GHz CPU with 15M Cache	6 CPU Cores Total in Head Node	1
RAM	4GB 2133MHz DDR4-2133 ECC REG DIMM	16Gb Ram in the Head Node	4
Hard Drive	Enterprise 1TB 6Gb/s Hard Drive, 7200RPM, 128M Cache	3TB Net Storage (RAID 5)	4
Network Card	Integrated Dual-port Gigabit Ethernet Controller		1
Network Card	40Gbps Infiniband Host Bus Adapter		1



3 Compute Nodes

Processors	Intel Six Core Xeon E5-2620v3 2.4GHz CPU with 15M Cache	36 CPU Cores In Compute Nodes	6
RAM	4GB 2133MHz DDR4-2133 ECC REG DIMM	32Gb Ram per Compute Node	24
Hard Drive	Enterprise 1TB 6Gb/s Hard Drive, 7200RPM, 128M Cache	1 TB Storage per compute node	3
Network Card	Integrated Dual-port Gigabit Ethernet Controller		3
Network Card	40Gbps Infiniband Host Bus Adapter		3



UPS

UPS	Smart App Online 2200VA / 1800W Pure Sine Wave UPS	1	
-----	--	---	--

Networking

Switches	Mellanox 8-PORT InfiniBand Switch	1	
Switches	24 Port Gigabit Ethernet Switch	1	
Cables	Infiniband Cables	4	
Cables	CAT-6 Cables	8	

Remote Testing / Operating System Install / Management Software & Configuration

Remote Testing	Free remote Testing of customer code prior to final order / shipment	1	
Software	Customer is responsible for any Software licensing costs for commercial applications added to base system		

Extra Features Included

Recovery	Includes Cluster Recovery DVD Disk		
Master Node	Bare Metal Restore for Head Node - Restores Head Node(s) back to original state		
Complete Setup	Rocks Recovery DVD Disk will restore complete setup including OS, Applications and User Settings Graceful Shutdown if room Air Conditioning fails Assistance with application scripts IPMI Management Of All Nodes		



3-Year Cluster Parts & Labor Warranty

Cluster Warranty	3-Year Parts & Labor Warranty on Cluster	1	
------------------	--	---	--

Freight	To Be Determined. Not Included in Total Cost.		
---------	---	--	--

<http://www.nor-tech.com/solutions/hpc/personal-cluster/>