

NAR-7100

2U communication appliance rack-mount server with Dual Quad-core processors for high-performance application



FEATURE

- Dual Quad-core Xeon® E55XX w/ 8M cache
- Flexible removable Ethernet/HDD modules w/ PCI-E Gen.2
- Up to twenty-six Gigabit Ethernet ports
- One PCI-E x16, two PCI-E x8, two PCI-X expansion slots (Optional)
- Redundant 500W ATX PSU
- Front access for user-friendly maintenance
- 2x16, 128x32, 128x64 LCD/Keypad for friendly installation and operation interface
- LOM Function

SPECIFICATION

CPU Board	- Support Dual Intel® Nehalem-EP E55XX/L55XX processor w/ 8M Cacheseries - Intel® 5520 chipset with Intel® QPI up to 6.4GT/s
System Memory	- Ten DDR3 800/1066/1333 DIMM socket - Supports up to 80GB RDIMM
Ethernet Port	- Two PCI-E GbE ports (Intel® 82574L) for management - Three flexible Ethernet modules up to 24GbE Ethernet ports
Expansion Slot	- One PCI-E x16 connector on board or - One PCI-E x4 (could transfer to two PCI-X) or Two PCI-E x8 expansion slots
Storage Device	- Up to two 3.5" SATA HDD - CompactFlash socket on-board
Serial Port	- One RJ45 (for system console) - Two 2x5 pin-connector
LCD Panel	2x16 characters or 128x32 with 4-buttons, 128x64 graphical LCD module with 7-buttons
LEDs	LED indicator for power status and storage access
IDE	- PCI transfer to IDE (CF socket and 40pin) - 4 SATA connectors
USB	Two USB 2.0 ports
VGA	YES (Pin header on board)
Power	Full range 500W 1 + 1 redundant PSU
Dimension	431.8(W) x 580(D) x 88(H) mm 17"(W) x 22.8"(D) x 3.5"(H)
Packing Dimension	24.9"(W) x 26.9"(D) x 8.4"(H)
Operating Environment	- Temperature: 5 to 35°C (41 to 95°F) - Humidity 20% to 90% RH
Storage Environment	- Temperature: 0 to 70°C (32 to 158°F) - Humidity 5% to 95% RH
Certification	CE/FCC/UL



Removable Smart Fan

500W ATX PSU

ORDERING GUIDE

Part No.	Ethernet Interface	EZIO	Expansion
NAR-7100-1414-000	14 Copper GbE ports	EZIO-300 EZIO-G400 EZIO-G500	Option
NAR-7100-1014-000	6 Copper GbE ports & 4 Fiber GbE ports	EZIO-300 EZIO-G400 EZIO-G500	Option

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ABA-153

2 mgmt ports / 1 console / 2 USB



ABN-464

4 port SFP w/ Intel® 82571EB



ABN-458

8 port copper w/ 82571EB



ABN-484

4 port copper w/ Intel® 82571EB
2 programmable bypass segments



ABN-522

2 port SFP+10G card w/ Intel® 82598EB



ABN-454

4 port copper w/ Intel® 82571EB



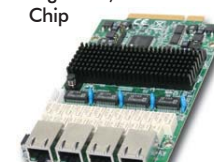
ABN-454L

PCI-E x8 GbE module with 4 RJ45 interfaces, based on Intel® 82574L Chip



ABN-484L

PCI-E x8 GbE module with 4 RJ45 interfaces and 2 Gen-2 Bypass segments, based on Intel® 82574L Chip



ABN-668

PCI-E x8 GbE module with 8 SFP interfaces, based on Intel® 82575EB



NIP-53020

2 port PCIe Gen.2 10G SFP+ w/ Intel® 82599ES



NIP-54020

2 port PCIe Gen.2 10G BASE-T w/ Intel® 82599EB



ABN-482

2 port SFP GbE Bypass card w/ 82571EB

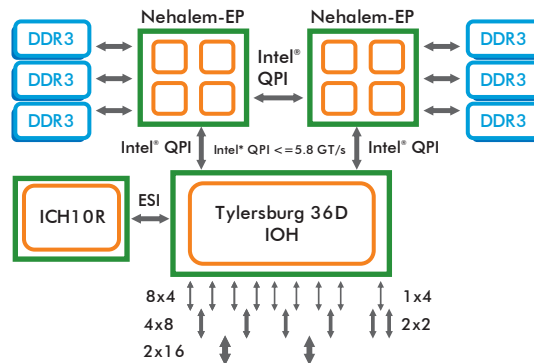


NOTE: Fiber Bypass is optional for project base

CPU	Clock	Core/Thread	QPI	Cache	Memory	TDP	Turbo	Socket
E5540	2.53	4/8	5.86	8MB	1066	80W	YES	LGA1366
E5504	2.00	4/4	4.8	4MB	800	80W	NO	LGA1366
L5518	2.13	4/8	5.86	8MB	1066	60W	YES	LGA1366
L5508	2.00	2/4	5.86	8MB	1066	38W	YES	LGA1366

Block Diagram

Quad Core 2S configuration shown



Processor Core

- Nehalem (45nm) [Next Intel® TOCK]
- Integrated Memory Controller
- Turbo Technology
- Intel® QuickPath interconnect
- Intel® Hyper-Threading Technology
- Lead and halogen free platform kit²



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