



NAR-7100

Tylersburg platform (Intel 5520), Up to 26 GbE ports



SPECIFICATION

CPU Board	- Support Dual Intel® Nehalem-EP E55XX/L55XX processor and Westmere-EP E56XX/L56XX processor - Intel® 5520 chipset with Intel® QPI up to 6.4GT/s
System Memory	- Support DDR 800/1066/1333 /DIMM - Support up to 40 GB RDIMM
Ethernet Port	- Two PCI-E GbE ports for management - Capable for three flexible NIP modules, up to 24 GbE 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 HDDs - 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

FEATURE

- Dual Quad-core Xeon® 55XX and 56XX series
- 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
- Support IPMI Function via third party module



Removable Smart Fan

500W ATX PSU

ORDERING GUIDE

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



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Case we II PCI-Express Gen.2 NIP



LAN module

NIP-53020



Ethernet Controller

intel® 82599ES

Interface

2 10GbE SFP+

Bypass

0

NIP-53120



intel® 82599ES

2 10GbE SFP+

1

NIP-51080



intel® 82580EB

8 GbE RJ45

0

NIP-51240



intel® 82580EB

4 GbE RJ45

2

NIP-52080



intel® 82580EB

8 GbE SFP

0

NIP-52120



intel® 82580DB

2 GbE SFP

1

Case we II NIP

ABN-464



Intel® 82571EB

4 GbE SFP

0

ABN-458



intel® 82571EB

8 GbE RJ45

0

ABN-484



Intel® 82571EB

4 GbE RJ45

2

ABN-522



Intel® 82598EB

2 GbE SFP+

0

ABN-454



Intel® 82571EB

4 GbE RJ45

0

ABN-454L



Intel® 82574L

4 GbE RJ45

0

ABN-484L



Intel® 82574L

4 GbE RJ45

2

ABN-668



Intel® 82575EB

8 GbE SFP

0

ABN-482



Intel® 82571EB

2 GbE SFP

1

CPU	Clock	Core/Thread	QPI	Cache	Memory	TDP	Turbo	Socket
E5645	2.40	6/12	5.86	12MB	1333	80W	YES	LGA1366
E5620	2.40	4/8	5.86	12MB	1066	80W	YES	LGA1366
L5638	2.00	6/12	5.86	12MB	1333	60W	YES	LGA1366
L5618	1.87	4/8	5.86	12MB	1066	40W	YES	LGA1366
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

Processor Core

- Nehalem-EP (45nm) and Westmere-EP (32nm)
- Integrated Memory Controller
- Turbo Technology
- Turbo Technology
- Intel® QuickPath interconnect
- Intel® Hyper-Threading Technology
- Lead and halogen free platform kit

Block Diagram

Quad Core 2S configuration shown

