



为您增值!

服务器网卡

网卡

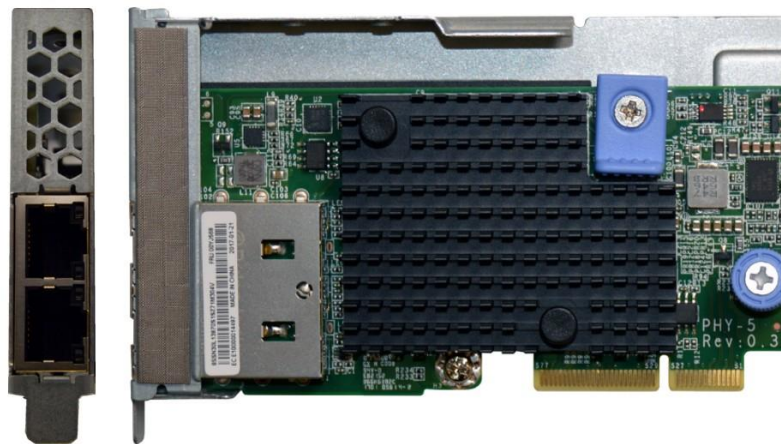
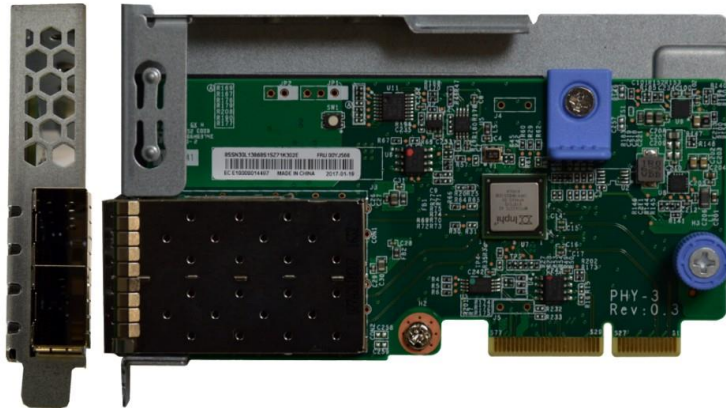
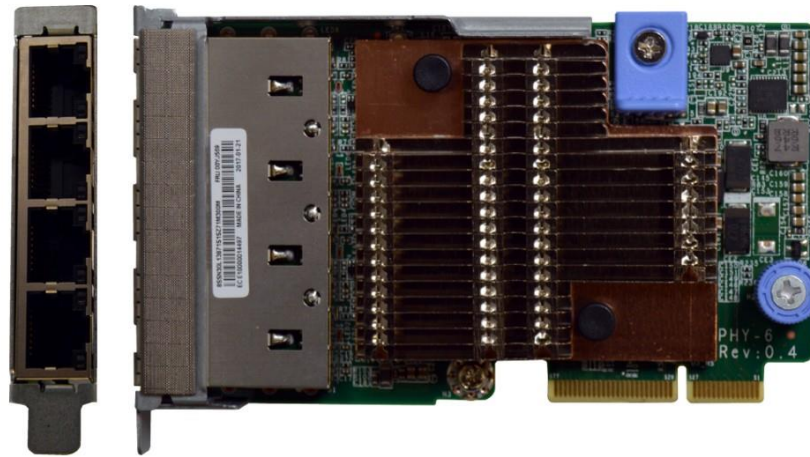
网卡是一块被设计用来允许计算机在计算机网络上进行通讯的计算机硬件。由于其拥有MAC地址，因此属于OSI模型的第1层。它使得用户可以通过电缆或无线相互连接。每一个网卡都有一个被称为MAC地址的独一无二的48位串行号，它被写在卡上的一块ROM中。在网络上的每一个计算机都必须拥有一个独一无二的MAC地址。没有任何两块被生产出来的网卡拥有同样的地址。这是因为电气电子工程师协会（IEEE）负责为网络接口控制器（网卡）销售商分配唯一的MAC地址。

MAC地址：58-A0-23-6E-DE-92

服务器网卡概览

- ❑ 100 Gb Ethernet Adapters
- ❑ 50 Gb Ethernet Adapters
- ❑ 40 Gb Ethernet Adapters
- ❑ 25 Gb Ethernet Adapters
- ❑ 10 Gb Ethernet RJ45 Adapters
- ❑ 10 Gb Ethernet SFP+ Adapters
- ❑ 1 Gb Ethernet Adapters

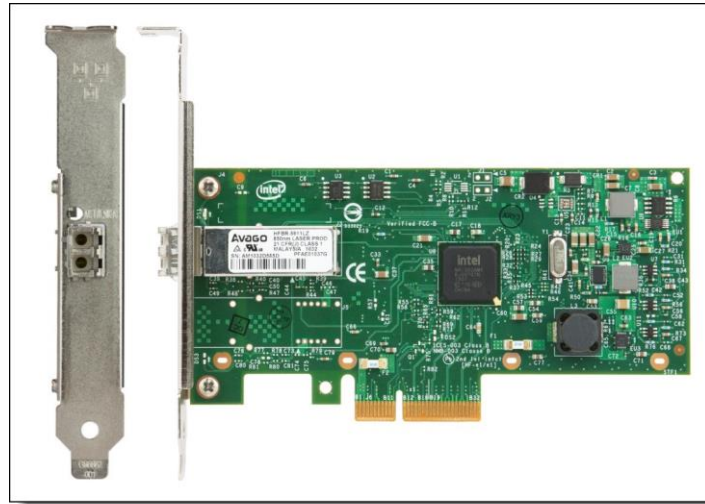
Intel X722 Integrated 10 GbE Controller



Intel X722 Integrated 10 GbE Controller 支持网卡速率概览

Part number	Description	PHY chip	10Gb	1Gb	100Mb	10Mb
Gigabit Ethernet						
7ZT7A00544	ThinkSystem 1Gb 2-port RJ45 LOM	2x Marvell 88E1514	No	Yes	No	No
7ZT7A00545	ThinkSystem 1Gb 4-port RJ45 LOM	Marvell 88E1543	No	Yes	No	No
10 Gb Ethernet						
7ZT7A00546	ThinkSystem 10Gb 2-port SFP+ LOM	Inphi CS4227	Yes	No	No	No
7ZT7A00547	ThinkSystem 10Gb 4-port SFP+ LOM	Inphi CS4223	Yes	No	No	No
7ZT7A00548	ThinkSystem 10Gb 2-port 10GBASE-T LOM	Intel X557-AT2	Yes	Yes	No	No
7ZT7A00549	ThinkSystem 10Gb 4-port 10GBASE-T LOM	Intel X557-AT4	Yes	Yes	No	No

Intel I350 Gigabit Ethernet Adapters

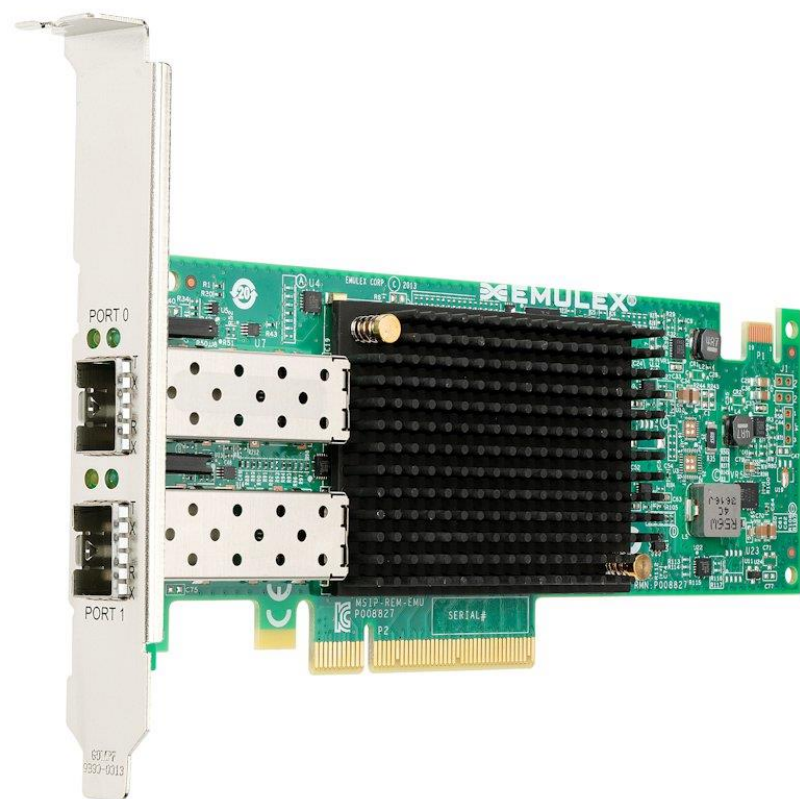


I350-T4 adapters: Four 10/100/1000 copper ports with RJ45 connectors

I350-T2 adapter: Two 10/100/1000 copper ports with RJ45 connectors

I350-F1 adapter: One fiber optic LC connector supporting MMF 62.5/50 μm cables, conforming to IEEE 802.3Z 1000BASE-SX. (Note: The LC connector is fixed and cannot be removed).

Emulex OCe14100B VFA5.2 Adapter Family



单击此处了解 vSAN ReadyNode 型号详细信息: HY-6-Lenovo-ThinkAgile VX 2U Certified Node

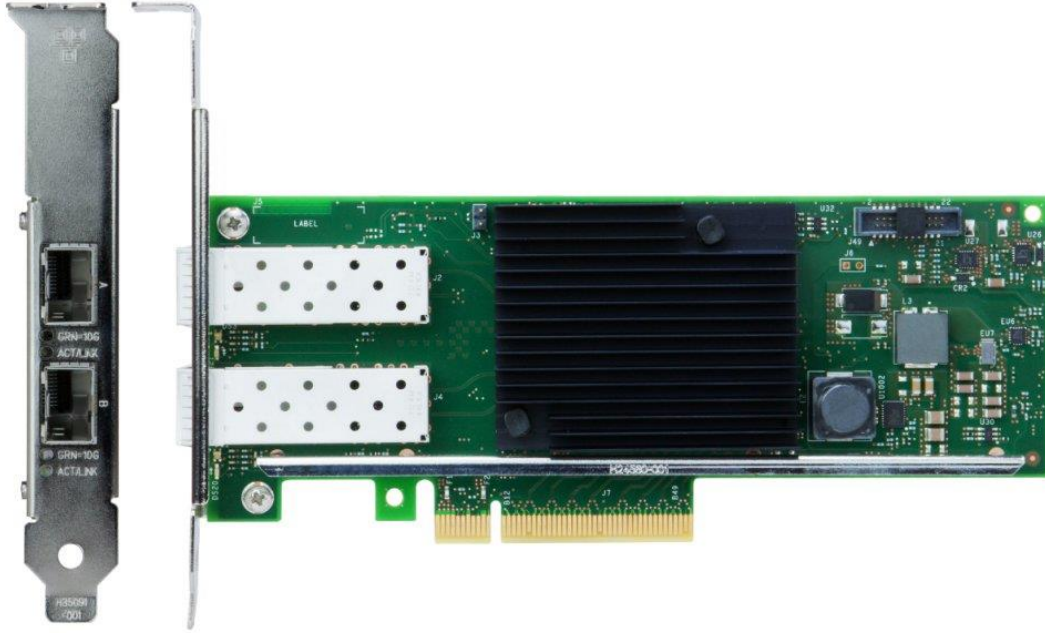
组件	详细信息	数量
SKU	7Y94CTO5WW, 7X06CTO1WW	
是否已预安装 ESXi?	No	
系统	ThinkAgile VX 2U Node	1
CPU	Intel Xeon Gold 5215 10C 85W 2.5GHz (Cascade Lake-SP) OR Intel® Xeon® Gold 5115 10C 85W 2.4GHz (Skylake-SP)	2
内存	ThinkSystem 32GB TruDDR4 2666 MHz (1Rx4 1.2V) RDIMM	8
缓存层	ThinkSystem 2.5" HUSMM32 400GB Performance SAS 12Gb Hot Swap SSD (OR) ThinkSystem 2.5" SS530 400GB Performance SAS 12Gb Hot Swap SSD	2
容量层	ThinkSystem 2.5" 1.2TB 10K SAS 12Gb Hot Swap 512n HDD	8
控制器	ThinkSystem 430-8i SAS/SATA 12Gb HBA	2
网卡	Emulex VFA5.2 2x10 GbE SFP+ PCIe Adapter (OR) ThinkSystem 10Gb 4-port SFP+ LOM	1
引导设备	ThinkSystem M.2 with Mirroring Enablement Kit	1

支持的版本	ESXi 6.7 U3 (vSAN 6.7 Update 3), ESXi 6.7 U2 (vSAN 6.7 Update 2), ESXi 6.7 U1 (vSAN 6.7 Update 1), ESXi 6.7 (vSAN 6.7), vSAN 6.6 (ESXi 6.5.0d), ESXi 6.5 U3 (vSAN 6.6.1 U3), ESXi 6.5 U2 (vSAN 6.6.1 U2), ESXi 6.5 U1 (vSAN 6.6.1), ESXi 6.0 U3 (vSAN 6.2 Update 3)
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注: This listing covers both ThinkAgile VX and SR650 servers. Machine type 7Y94 for ThinkAgile VX is preferred for new vSAN solutions.

https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vsan&details=1&vsan_type=vsanreadynode&vsan_partnr=51&vsan_workload_profiles=HY-6%20Series&page=1&display_interval=10&sortColumn=Partner&sortOrder=Asc

Intel X710 10 GbE Network Adapter Family



Part number	Feature code	Description
Optical Transceivers - System x and ThinkSystem adapters		
46C3447	5053	SFP+ SR Transceiver (10Gb)
49Y4218	0064	QLogic 10Gb SFP+ SR Optical Transceiver
00FE331**	B0RJ	Lenovo 10GBASE-LR SFP+ Transceiver
90Y9412**	A1PM	Lenovo SFP+ LR Transceiver
00FE333**	A5DL	Lenovo 1000BASE-T SFP Transceiver (does not support 10/100 Mbps)
00MY034	ATTJ	Lenovo Dual Rate 1G/10GB SFP Transceiver

** Only supported by adapters Intel X710-DA2 ML2 2x10GbE SFP+ Adapter (00JY940) and ThinkSystem X710-DA2 PCIe 10Gb 2-Port SFP+ Ethernet Adapter (7ZT7A00537)

Intel X550 10 Gb Ethernet 10GBASE-T Adapters



The Intel X550 adapter has the following specifications:

One or Two 10GBASE-T RJ-45 ports

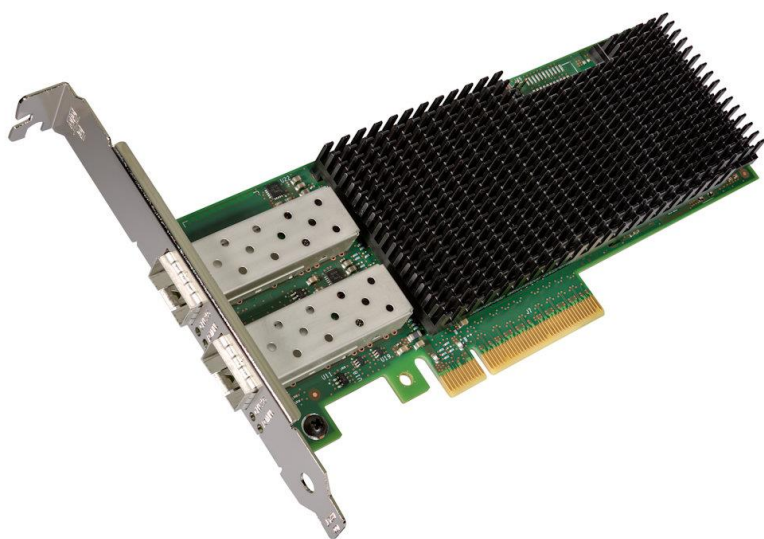
Supports 100 Mbps, 1 Gbps, and 10 Gbps speeds

Standard PCIe low-profile card form factor

PCIe 3.0 x4 host interface

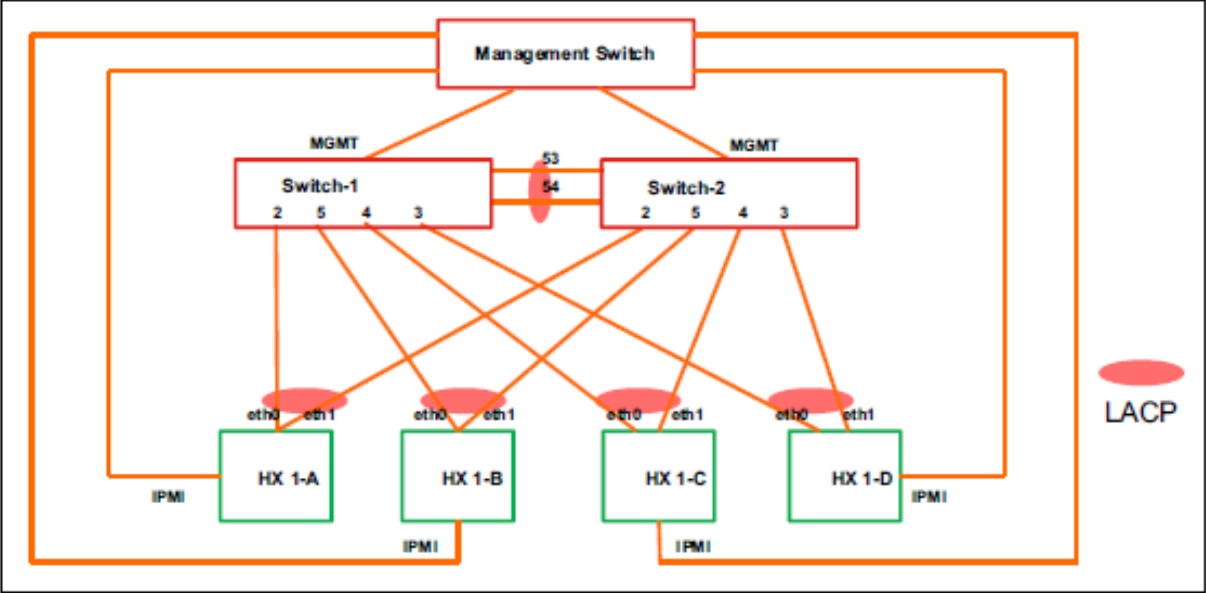
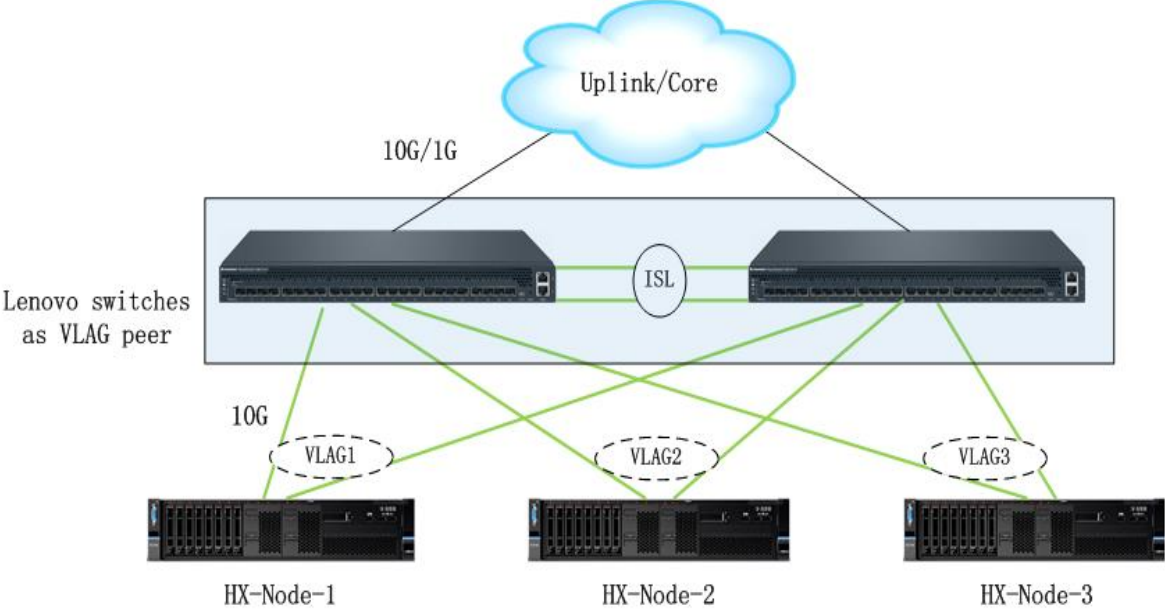
Power consumption (10GBASE-T): 13.0 W (maximum), 11.2 (typical)

ThinkSystem Intel XXV710-DA2 10/25GbE SFP28 2-Port PCIe Ethernet Adapter

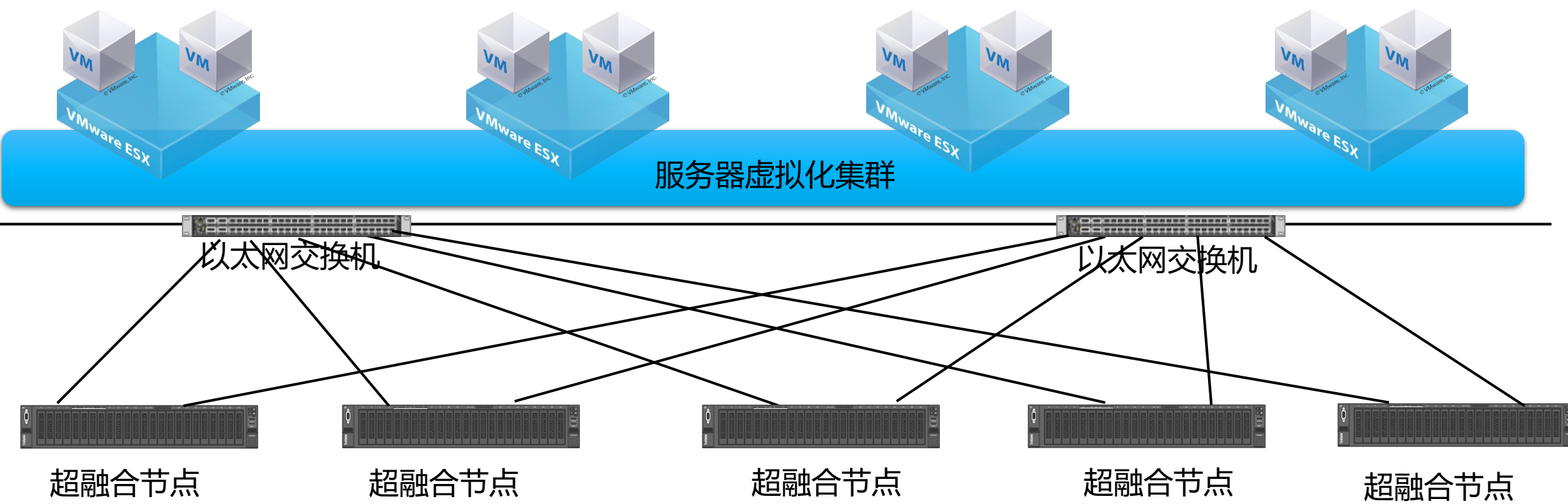


Part number	Feature code	Description
1Gb transceivers		
00FE333	A5DL	SFP 1000Base-T (RJ-45) Transceiver
10Gb transceivers		
46C3447	5053	SFP+ SR Transceiver
49Y4218	0064	QLogic 10Gb SFP+ SR Optical Transceiver
49Y4216	0069	Brocade 10Gb SFP+ SR Optical Transceiver
90Y9412	A1PM	SFP+ LR Transceiver
00FE331	B0RJ	10GBASE-LR SFP+Transceiver
25Gb transceivers		
7G17A03537	AV1B	Lenovo 25GBase-SR SFP28 Transceiver

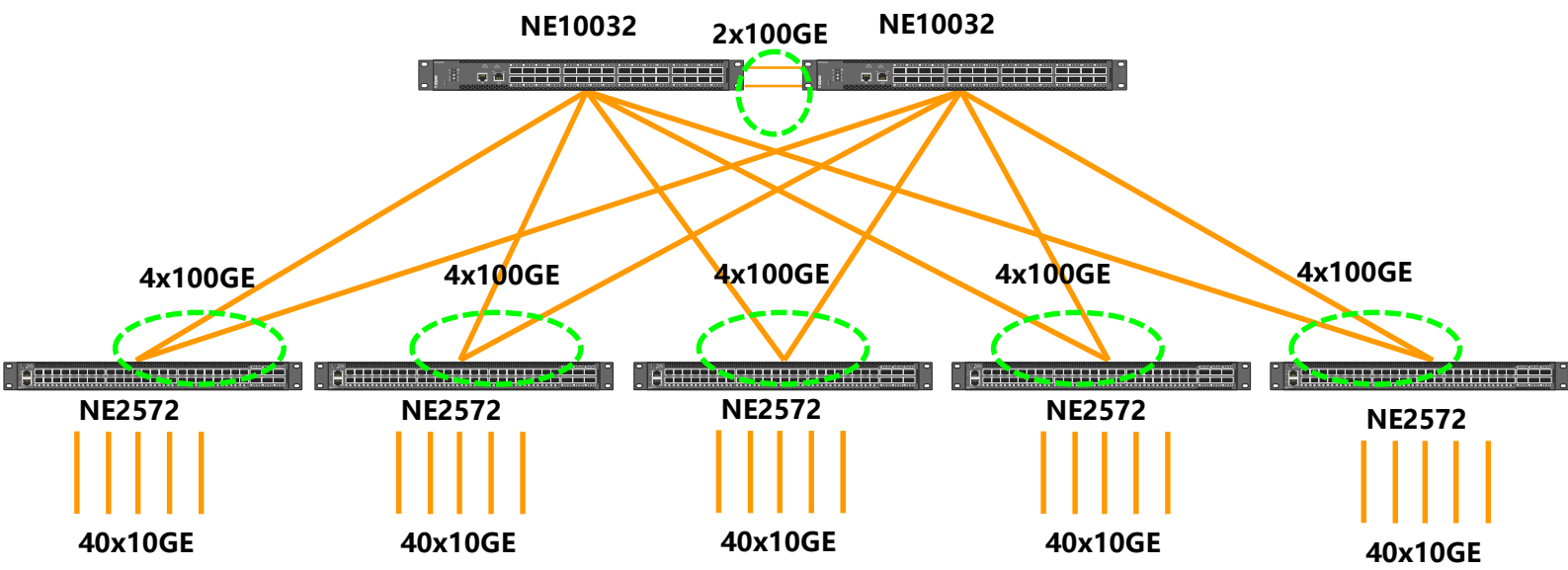
超融合典型网络拓扑



超融合网络架构



Spine+Leaf 网络架构



总结

- ❑ 建议尽可能选择高速网卡，减少线缆及运维难度
- ❑ 数据中心内部网络Spine+Leaf架构快速兴起
- ❑ 不同网络（管理网络、业务网络、vMotion网络...）流量彼此分离

流量类型	份额	值
vSAN	高	100
vSphere vMotion	Low	25
虚拟机	Normal	50
iSCSI/NFS	Low	25

51CTO学院



Thank You !

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