

Component Category	Cisco Part Number (Conceptual)	Description	Quantity
<b>I. UCS COMPUTE INFRASTRUCTURE</b>			
Chassis	UCS-X9508-CHASSIS	Cisco UCS X9508 8-Slot Chassis (Base)	2
Fabric Interconnect	UCS-FI-6536	Cisco UCS 6536 Fabric Interconnect (Cloud-managed)	4
Compute Node	UCS-X440C-M7-H100	UCS X440c Node with 4x NVIDIA H100 GPUs (Accelerated Compute)	16
General Compute Node	UCS-X210C-M7	UCS X210c Node (CPU/RAM only for management/control)	4
Local Storage	UCS-M2-DRV3840G	3.84TB M.2 NVMe SSD for Boot/OS (Per Node)	40
<b>II. NETWORK FABRIC (NEXUS HYPERFABRIC)</b>			
Spine Switches	N9K-C9364E-SG2-O	Cisco Nexus 9364E-SG2 Switch (51.2T, 64x 800G ports)	2
Leaf Switches (AI Fabric)	N9K-C9316D-GX	Cisco Nexus 9316D-GX Leaf Switch (High-density 400G RoCEv2)	4
Management Switch	N2K-C2348UPQ	Cisco Nexus 2348UPQ 10GE Fabric Extender (FEX)	2
Transceivers	QDD-400G-SR8-S	400G QSFP-DD Multi-Mode Transceiver	Varies

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Cabling	CAB-QDD-CU5M	5M 400G QSFP-DD to QSFP-DD Active Copper Cable	Varies
<b>III. SOFTWARE &amp; MANAGEMENT</b>			
Cloud Management	INTSGT-PRE-T2-K9	Cisco Intersight Premier Subscription (3 Year Term)	1
Nexus Management	N-DASH-A-K9	Cisco Nexus Dashboard (Base Platform License)	1
AI Software Stack	NVAIE-LIC-H100	NVIDIA AI Enterprise Perpetual License (Per H100 GPU)	64
<b>IV. STORAGE (Example Partner Integration)</b>			
External Storage (Conceptual)	PURE-FA-X90-BASE	Pure Storage FlashArray X90 Base System	1
Storage Switch	DS-C9148V-K9	Cisco MDS 9148V Fibre Channel Switch	2
<b>V. SUPPORT &amp; SERVICES (MANDATORY)</b>			
System Support	CON-SOLS-CXXXXXX	Cisco Solution Support for UCS, Nexus, and FI (5 Year Term)	1
Installation Services	SVC-INST-DATA-POD	Cisco Installation Service - Data Center AI POD	1

