



SYS-5039A-I

Solutions Reference Guide

Engineered for professionals, the Supermicro SYS-5039A-I workstation is fully configurable to deliver exceptional performance and server-grade reliability for your most demanding professional applications. Featuring 5Gigabit LAN, fast dual PCIe M.2 storage options, and multi-GPU capability, the SYS-5039A-I supports the latest Intel® Xeon™ W-Series CPU and is ready to be configured for your application needs.



	Deluxe	Performance	Extreme
CPU	Intel® Xeon® W-2133 6 Cores at 3.6Ghz	Intel® Xeon® W-2155 10 Cores at 3.3Ghz	Intel® Xeon® W-2195 18 Cores at 2.3Ghz
Memory	32GB DDR4-2666 ECC REG Memory	64GB DDR4-2666 ECC REG Memory	128GB DDR4-2666 ECC REG Memory
Storage	1x 512GB M.2 NVMe; 1x 6TB 7200RPM Enterprise 3.5" HDD	2x 512GB M.2 NVMe; 2x 6TB 7200RPM Enterprise 3.5" HDD iRAID 1	2x 1TB M.2 NVMe; 3x 2TB 2.5" SSD in RAID 5
Graphics (GPU)	NVIDIA® Quadro® P2000	NVIDIA® Quadro® P4000, or RTX4000	NVIDIA® Quadro® P6000, or RTX 6000
Recommended Applications :			
Design/ Engineering/ Manufacturing	Autodesk Inventor®	Beta VAE ANSA, META	EXA PowerViz
	Autodesk Showcase™	COMSOL	LS - PrePost
	Altair® HyperWorks®	Dassault Systèmes SOLIDWORKS	PTC Creo
	Siemens CD-adapco STAR-CCM+	Siemens PLM Solid Edge Siemens NX, SimCenter, NX CAE, FEMAP	Dassault Systèmes CATIA V5 and V6
Visualization/ Effects	Avid® Media Composer®	Maxon CINEMA 4D	NewTek Lightwave™
Oil and Gas			IHS KINGDOM



Supermicro Workstations with NVIDIA GPU Solution Reference Guide



Applications	System Model	System Model	System Model	GPU	GPU	GPU
Design/Engineering/Manufacturing	Good	Better	Best	Deluxe	Performance	Extreme
Altair® HyperWorks®	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
ANSYS® Discovery Live	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
ANSYS Workbench™, ANSYS AIM and ANSYS EnSight	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
ANSYS Mechanical, ANSYS Fluent and ANSYS HFSS	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® GP100	Quadro® GV100	2x Quadro® GV100
ANSYS SPEOS	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Autodesk® 3ds Max®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Autodesk AutoCAD®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® RTX 3000	Quadro® RTX 4000
Autodesk Fusion 360	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Autodesk Netfabb 2018	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® RTX 3000	Quadro® RTX 4000
Autodesk Inventor®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® RTX 3000	Quadro® RTX 4000
Autodesk VRED	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Beta CAE ANSA, META	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
COMSOL	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Dassault Systèmes 3DEXCITE DELTAGEN / DELTAVIEW	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® RTX 5000	Quadro® RTX 6000	Quadro® RTX 8000
Dassault Systèmes CATIA V5-6 and 3DEXPERIENCE	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 6000
Dassault Systèmes CATIA Live Rendering	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® RTX 5000	Quadro® RTX 6000	Quadro® RTX 8000
Dassault Systèmes SIMULIA Abaqus	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® GP100	Quadro® GV100	2x Quadro® GV100
Dassault Systèmes SOLIDWORKS	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 6000
Dassault Systèmes SOLIDWORKS Visualize2	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® RTX 4000	2x Quadro® RTX 4000	2x Quadro® RTX 6000
ESI Group IC.IDO	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® RTX 5000	2x Quadro® RTX 5000	2x Quadro® RTX 6000
EXA PowerViz	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
LS-PrePost	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Lumiscaphe P3D Design	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® RTX 5000	Quadro® RTX 6000	Quadro® RTX 8000
MathWorks MATLAB	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® GV100	Quadro® GV100	2x Quadro® GV100
MSC Nastran	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® GP100	Quadro® GV100	2x Quadro® GV100
MSC Patran, Apex, ADAMS	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
PTC Creo	SYS-5039C-T	SYS-5039A-I	SYS-7039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Siemens Simcenter STAR-CCM+	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Siemens NX, SimCenter, NX CAE and FEMAP	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Siemens NX + Ray Traced Studio (Iray)	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® RTX 5000	Quadro® RTX 6000	Quadro® RTX 8000
Siemens PLM Solid Edge	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Siemens NX Nastran	SYS-5039A-I	SYS-5049A-T	SYS-7039A-I	Quadro® GP100	Quadro® GV100	2x Quadro® GV100



Supermicro Workstations with NVIDIA GPU Solution Reference Guide



Applications	System Model	System Model	System Model	GPU	GPU	GPU
Virtual Reality Viewer (VR Viewer)	Good	Better	Best	Deluxe	Performance	Extreme
ANSYS VRXPERIENCE	SYS-5039AD-I	SYS-5039A-I	SYS-5049A-TR	Quadro® RTX 4000	Quadro® RTX 5000	3x Quadro® RTX 6000
Autodesk Live	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Siemens NX VR, Plant Simulations, TeamCenter	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Siemens Simcenter, STAR-CCM+ VR	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Architecture/Engineering/Construction	Good	Better	Best	Deluxe	Performance	Extreme
Autodesk 3ds Max®	SYS-5039AD-I	SYS-5039A-I	SYS-5049A-TR	Quadro® RTX 4000	Quadro® RTX 5000	3x Quadro® RTX 6000
Autodesk Revit® / ReCap 360	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Enscape Enscape3d	SYS-5039AD-I	SYS-5039A-I	SYS-5049A-TR	Quadro® RTX 4000	Quadro® RTX 5000	3x Quadro® RTX 6000
Nemetschek Graphisoft ArchiCAD/ Allplan	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Nemetschek Vectorworks	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® P2200	Quadro® RTX 4000
Modeling / Animation / Visualization / Effects	Good	Better	Best	Deluxe	Performance	Extreme
Adobe After Effects CC3/Autodesk 3ds Max, Maya®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 5000	Quadro® RTX 6000
Autodesk Arnold	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 5000	Quadro® RTX 6000	Quadro® RTX 8000
Chaos V-Ray GPU	SYS-5039AD-I	SYS-5039A-I	SYS-5049A-TR	Quadro® RTX 4000	Quadro® RTX 6000	3x Quadro® RTX 8000
Maxon CINEMA 4D	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 6000
NewTek Lightwave™	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Otoy Octane / Redshift Renderer	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	Quadro® RTX 6000	Quadro® RTX 8000
SideFX Houdini	SYS-5039A-I	SYS-5049A-T	SYS-5049A-TR	Quadro® RTX 6000	2x Quadro® RTX 6000	2x Quadro® RTX 8000
Video Editing	Good	Better	Best	Deluxe	Performance	Extreme
Adobe Media Encoder / PPremiere Pro	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 5000	Quadro® RTX 6000
Autodesk Flame	SYS-5039A-I	SYS-5049A-T	SYS-5049A-TR	Quadro® RTX 5000	Quadro® RTX 6000	2x Quadro® RTX 6000
Avid® Media Composer®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Blackmagic Design DaVinci Resolve	SYS-5039A-I	SYS-5049A-T	SYS-5049A-TR	Quadro® RTX 5000	Quadro® RTX 6000	3x Quadro® RTX 6000
ColorFront Transkoder & On-Set Dailies	SYS-5039A-I	SYS-5049A-T	SYS-5049A-TR	Quadro® RTX 5000	Quadro® RTX 6000	3x Quadro® RTX 6000
FilmLight Baselight	SYS-5039A-I	SYS-5049A-T	SYS-5049A-TR	Quadro® RTX 5000	Quadro® RTX 6000	2x Quadro® RTX 6000
Grass Valley Edius®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® P2200	Quadro® RTX 4000
Magix Vegas Pro™	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® P2200	Quadro® RTX 4000
RED Digital Cinema REDCINE-X PRO	SYS-5039A-I	SYS-5049A-T	SYS-5049A-TR	Quadro® RTX 5000	Quadro® RTX 6000	2x Quadro® RTX 6000
Image Editing / Artistic Design	Good	Better	Best	Deluxe	Performance	Extreme
Adobe® Photoshop®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® P2200	Quadro® RTX 4000
Adobe® Illustrator®	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P620	Quadro® P2200	Quadro® RTX 4000
Allegorithmic Substance Designer	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® P2200	Quadro® RTX 4000	Quadro® RTX 5000
Allegorithmic Substance Painter	SYS-5039C-T	SYS-5039AD-I	SYS-5039A-I	Quadro® RTX 4000	2x Quadro® RTX 4000	Quadro® RTX 6000