



NVIDIA GRID K1 AND NVIDIA GRID K2 CERTIFIED OEM PLATFORMS

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Application Note



DOCUMENT CHANGE HISTORY

DA-09018-001_v01

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OVERVIEW

This application note lists the OEM server platforms which are currently supported for the NVIDIA GRID™ K1 and NVIDIA GRID™ K2 cards.

NVIDIA GRID K1

The NVIDIA GRID K1 is a dual-slot 10.5 inch PCI Express Gen3 graphics board with four NVIDIA® Kepler™ graphics processing units (GPUs). The NVIDIA GRID K1 has 16 GB of DDR3 memory (4 GB per GPU), and a 130 W maximum power limit. The NVIDIA GRID K1 graphics board uses a passive heat sink that requires system airflow to properly operate the card within thermal limits. It is designed to accelerate graphics in virtual desktop environments, making it the ideal graphics processor for Microsoft RemoteFX and VMware vSGA.

NVIDIA GRID K1 HARDWARE SPECIFICATIONS

The following list provides the hardware specifications for NVIDIA GRID K1.

- ▶ Four GK107 GPUs
- ▶ PCI Express 3.0 × 16 system interface
- ▶ Physical dimensions: 4.376 inches × 10.5 inches × 1.52 inches (dual-slot)
- ▶ Board power: 130 W (maximum)
- ▶ One 6-pin PCI Express power connector

NVIDIA GRID K2

The NVIDIA GRID K2 is a dual-slot 10.5 inch PCI Express Gen3 graphics card with two high-end NVIDIA® Kepler™ GPUs. The NVIDIA GRID K2 has 8 GB of GDDR5 memory (4 GB per GPU), and a 225 W maximum power limit. The NVIDIA GRID K2 graphics board uses a passive heat sink that requires system airflow to properly operate the card within thermal limits. It is designed to accelerate graphics in virtual remote workstation and virtual desktop environments.

NVIDIA GRID K2 HARDWARE SPECIFICATIONS

The following list provides the hardware specifications for NVIDIA GRID K2.

- ▶ Two GK104 GPUs
- ▶ PCI Express Gen3 × 16 system interface
- ▶ Physical dimensions: 4.376 inches × 10.5 inches × 1.52 inches (dual-slot)
- ▶ Board power: 225 W (maximum)

SUPPORTED SERVERS

The following table contains the supported servers and models using NVIDIA GRID K1 and NVIDIA GRID K2.

Table 1. NVIDIA GRID K1 and NVIDIA GRID K2 Supported Servers

Manufacturer	Model	Rack Units	Node per Chassis	NVIDIA GRID K1	NVIDIA GRID K2
ASRock Rack	2U2N-F/4GC612	2	2	-	2
ASUS	ESC4000 G2	2	1	2	4
ASUS	ESC4000 G3	2	1	2	4
ASUS	ESC4000 G3S	2	1	2	4
ASUS	ESC4000/FDR G2	2	1	2	4
ASUS	ESC8000 G3	3	1	2	4
ASUS	RS920-E7/RS8	2	1	2	2
ASUS	RS926-E7/RS8	2	1	2	2
Bull	Bullx R421 E3	1	2	2	3
Cisco	UCS C240 M3	2	1	2	2
Cisco	UCS C240 M4	2	1	2	2
Cisco	UCS C460 M4	4	1	2	2
Cubix	RPS NVGrid K2	8	1	-	4
Cubix	SPS Grid K1 JagFast	4	1	2	-
Dell	PowerEdge C4130	1	1	3	4
Dell	PowerEdge C8220X	4	4	-	2
Dell	PowerEdge R720	2	1	2	2
Dell	PowerEdge R730	2	1	2	2
Dell	XC730-16G	2	1	2	2
Dell	PowerEdge T620	2	1	-	4

Manufacturer	Model	Rack Units	Node per Chassis	NVIDIA GRID K1	NVIDIA GRID K2
Dell	PowerEdge T630	5	1	-	4
Dell	PowerEdge VRTX	2	1	-	1
Dell	Precision Appliance for Wyse	2	1	2	2
Dell	Precision R7610	2	2	-	2
Dell	Precision R7910	2	1	-	2
Exxact	Quantum TXR113-1000R	1	1	2	4
Exxact	Quantum TXR130-1000R	1	1	2	3
Exxact	Quantum TXR230-0512R	2	1	2	4
Exxact	Quantum TXR211-1000R	2	1	2	4
Exxact	Quantum TXR110-2000R	1	1	2	4
Exxact	Quantum TXR231-1000R	2	1	2	4
FUJITSU	CELSIUS C620	1	1	-	1
FUJITSU	CELSIUS C740	1	1	-	1
FUJITSU	CELSIUS M740	5	1	2	2
FUJITSU	CELSIUS R940	5	1	2	3
FUJITSU	PRIMERGY CX2570 M1	2	2	1	1
FUJITSU	PRIMERGY RX2540 M1	2	1	2	2
FUJITSU	PRIMERGY RX350 S8	4	1	2	2
FUJITSU	PRIMERGY TX300 S8	5	1	2	2
Gigabyte	G250-S88	2	1	2	4
Gigabyte	R280-G20	2	1	2	3
Hitachi	Compute Blade 520H	6	8	-	1
Hitachi	HA8000/RS220 AN2,BN2	2	1	1	1
HPE	DL380z Gen9 Virtual Workstation	2	1	2	2
HPE	Apollo XL250a Gen9	5	5	2	-
HPE	ProLiant DL380p Gen8	2	1	2	2
HPE	ProLiant DL380 Gen9	2	1	2	2
HPE	ProLiant SL250s Gen8	4	1	-	3
HPE	ProLiant SL270s Gen8 SE	4	1	-	4
HPE	ProLiant WS460c Gen8	10	16	1**	1**
HPE	ProLiant WS460c Gen9	10	16	1**	1**
HPE	Hyper Converged 380	2	1	2	2
Huawei	Tecal CH221 V2	12	8	1	1
Huawei	Tecal RH2288H V2	2	1	1	1
Huawei	FusionServer RH2288H V3	2	1	2	2
Huawei	FusionServer RH5885H V3	4	1	2	1

Manufacturer	Model	Rack Units	Node per Chassis	NVIDIA GRID K1	NVIDIA GRID K2
Huawei	FusionServer XH622 V3	4	4	2	2
Inspur	NF5288	2	1	2	4
Inspur	NF5588M3	4	1	2	4
Leadtek	WinFast GS2000	2	1	2	4
Leadtek	WinFast GS2020	2	1	2	4
Lenovo	Flex System x240 M5	10	7	1	1
Lenovo	NeXtScale nx360 M4	6	6	2	2
Lenovo	NeXtScale nx360 M5	6	4	2	2
Lenovo	System x iDataPlex dx360 M4	2	1	2	2
Lenovo	System x3650 M4	2	1	-	2
Lenovo	System x3650 M5	2	1	2	2
Lenovo	System x3850 X6	4	1	2	2
Lenovo	System x3950 X6	8	1	2	2
NEC	Express 5800/R120e-2M	2	1	1	1
NEC	Express 5800/R120f-2M	2	1	1	1
NEC	Express 5800/R120g-2M	2	1	1	1
Nutanix	NX-3155G-G4	2	1	-	3
Nutanix	NX-3155G-G5	2	1	-	3
Nutanix	NX-3175-G4	1	1	1	1
Nutanix	NX-3175-G5	1	1	1	1
Nutanix	NX-7110	2	1	2	3
One Stop Systems	1U Expansion Chassis	1	1	-	4
One Stop Systems	2U Expansion Chassis	1	1	-	8
Pivot3	vSTAC R2S P Cubed	2	1	1	1
QCT	QuantaGrid D51BV-2U	2	1	2	2
QCT	STRATOS S210-X2A2J	2	1	2	4
SGI	Rackable C1104G-RP5	1	1	2	3
SGI	Rackable C2108-GP5	2	1	2	4
Sugon	I620-G15	2	1	2	2
Sugon	W760-G10	2	1	2	2
Sugon	W580I-G10	4	1	2	4
Supermicro	SYS-1017R-WR	1	1	-	1
Supermicro	SYS-1027GR	1	1	2	3
Supermicro	SYS-1028GQ	1	1	2	4
Supermicro	SYS-1028GR	1	1	2	3
Supermicro	SYS-1028U / 6018U	1	1	1	1

Manufacturer	Model	Rack Units	Node per Chassis	NVIDIA GRID K1	NVIDIA GRID K2
Supermicro	SYS-2027GR	1	-	2	4
Supermicro	SYS-2028GR	2	1	2	4
Supermicro	SYS-2028TP-DC1FR	2	2	1	1
Supermicro	SYS-2028U / 6028U	2	1	-	3
Supermicro	SYS-7047GR-TRF	4	1	2	4
Supermicro	SYS-7048GR-TR	4	1	2	4
Supermicro	SYS-F627G	4	4	2	3
Tyan	FT77AB7059	4	1	-	4
Tyan	GA80-B7061	2	1	-	2
Tyan	TA77-B7061	2	1	-	4
VDI-Appliance	IO-100 G3	1	1	2	4
VDI-Appliance	IO-150 G3	1	1	2	4
VDI-Appliance	IO-250 G3	1	1	2	4
VDI-Appliance	IO-275 G3	1	1	2	4
VDI-Appliance	IO-285 G3	1	1	2	4

Note: **With expansion chassis

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