# DVS 2U SPARK4-T1000 Pro



## Overview

The SPARK is the entry level in our range of media servers. Supporting up to four display outputs, the SPARK is a great solution for interactive and standalone custom rendered content.

The DVS 2U SPARK4-T1000 Pro is a fantastic mid-range performance rack mount server. The dedicated T1000 graphics card delivers good graphical performance and the intelbased Processors options allow up to 8 cores and 16 threads for demanding single and multi-threaded workloads. The professional level graphics card gives great performance as well as additional features such as EDID emulation, supplying an extra level of reliability. The PCIe 4.0 NVMe M.2 slot allows for blistering fast storage options. There is also a PCIe 3.0 NVMe M.2 slot available for a secondary NVMe drive. The two 2.5" or 3.5" drive bays allow for higher capacity storage and RAID options. The 2U SPARK4-T1000 Pro is excellent for interactives, multi-screen digital signage and entry level media server applications.

#### Specifications

- DVS 2U Rackmount Chassis 457.2 x 430 x 88.1 (mm) (D x W x H)
- 500 Watt PSU 100 240V~, 7A, 50 60Hz
- ATX Motherboard (Intel Z590 Chipset )
- Intel Processors (4, 6, or 8 cores with Hyper Threading)
- 8 / 16 / 32 / 64 GB DDR4 Dual Channel Memory
- nVidia T1000 Graphics Card ( Up to 4 concurrent displays )



- 2 x NVMe M.2 Storage
- 1 x 2.5 Gigabit Network Port
- Operating System Windows Enterprise IoT LTSC 2019 or Windows 10 Pro
- Optional Extras (Variants)
  - $\circ$  2 x SSD or HDD RAID (RAID 0 or 1)

## Variations

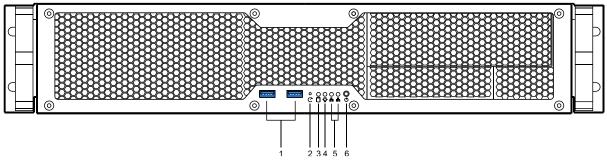
Model Number	SSD RAID	HDD RAID
4U SPARK4-T1000 Pro		
4U SPARK4-RH-T1000 Pro		Yes
4U SPARK4-RS-T1000 Pro	Yes	

# **Graphics Card**

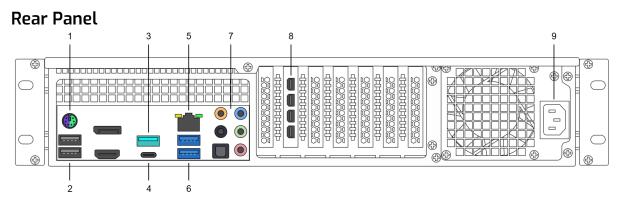
Chipset	Quadro T1000
Microarchitecture	Turing
Memory	4GB GDDR6
Memory Bus	128 Bit
Interface	PCIe 3.0 (x16)
Microsoft DirectX Support	12 API
HDCP Ready	Yes
Maximum Concurrent Displays	4 Displays
Maximum Digital Resolution	7680x4320 @ 60Hz (8K UHD)
Outputs	4 x Mini DisplayPort 1.4
EDID Emulation	Yes
Sync Module Supported	No

# Connectors

### Front Panel



- 1. USB 2.0 Ports
- 2. System Reset Switch
- 3. HDD Activity LED
- 4. Power LED
- 5. LAN1 and LAN2 Activity LED. Not connected
- 6. Power Button



- 1. **PS/2 Keyboard / Mouse Combo Port**
- 2. USB 2.0 Ports
- 3. USB 3.2 Gen2 Type-A Port
- 4. USB 3.2 Gen2x2 Type-C Port
- 5. LAN RJ-45 Port. 2.5 Gigabit Ethernet

#### LAN port LED Indications

Activity / Link LE	D	Speed LED		ACT/LINK SPEED LED LED
Status	Description	Status	Description	
Off	No link	OFF	No Link	
On	Linked	ORANGE	10/100/1000 Mbps	
			connection	LAN port
Blinking	Data activity	GREEN	2.5Gbps connection	

#### 6. USB 3.2 Gen1 Type-A Ports.

7. Audio Ports. Includes Optical S/PDIF Output

Audio Ports Channel Configuration				
Port	Headset / 2 Channels	4 Channel	5.1 Channel	7.1 Channel
Light Blue	Line In	Line In	Line In	Side Speaker Out
Lime	Line Out	Front Speaker Out	Front Speaker Out	Front Speaker Out
Pink	Mic In	Mic In	Mic In	Mic In
Orange	-	-	Centre / Sub	Centre / Sub
			Woofer	Woofer
Black	-	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out

#### 8. Mini DisplayPort 1.4 (x 4)

9. **Power IEC.** Mains Power Input: 100 – 240V<sup>~</sup>, 7A, 50 – 60Hz

Note\* On board display connections are not available for use.

## **Internal Expansion**

- M.2 Socket 2242/2260/2280/22110 storage device support (PCIE x4 Gen4)
- M.2 Socket 2242/2260/2280 storage device support (SATA & PCIE x4 Gen3)
- 2 x 2.5" Drive bays (SATA), Supports RAID 0 and RAID 1
- 2 x 3.5" Drive bays (SATA), Supports RAID 0 and RAID 1

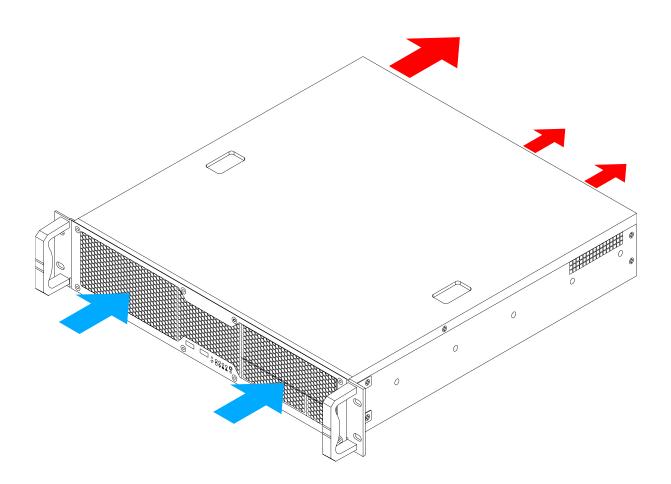
## **Chassis Specification**

The DVS 2U SPARK4-T1000 Pro is a two rack unit high chassis, designed to fit in standard 19" rack cabinets. Optional rack rails are available for the system.

Colour	Silver, Black Front	
Dimension (D x W x H)	457.2 x 430 x 88.1 (mm) , 18" x 16.9" x 3.5"	
Drive Bay	<ul> <li>Exposed: 1 x 5.25" + 1 x 3.5"</li> </ul>	
	• Internal: 2 x 3.5", 2 x 2.5"	

# Ventilation

The 2U SPARK4-T1000 Pro is a rack mountable server, all cool air intake is from the front of the chassis and all hot air is actively expelled from the rear of the chassis. The chassis is designed to be in a climate-controlled server room environment.





# **Supported Video Formats**

The system comes with Windows installed as standard. Windows includes Windows Media Player by default. As of Windows Media Player 12 the following video formats are supported:

- Windows Media formats (.asf, .wma, .wmv, .wm)
- Windows Media Metafiles (.asx, .wax, .wvx, .wmx)
- Windows Media Metafiles (.wpl)
- Microsoft Digital Video Recording (.dvrms)
- Windows Media Download Package (.wmd)
- Audio Visual Interleave (.avi)
- Moving Pictures Experts Group (.mpg, .mpeg, .m1v, .mp2, .mp3, .mpa, .mpe, .m3u)
- Musical Instrument Digital Interface (.mid, .midi, .rmi)
- Audio Interchange File Format (.aif, .aifc, .aiff)
- Sun Microsystems and NeXT (.au, .snd)
- Audio for Windows (.wav)
- CD Audio Track (.cda)
- Indeo Video Technology (.ivf)
- Windows Media Player Skins (.wmz, .wms)
- QuickTime Movie file (.mov)
- MP4 Audio file (.m4a)
- MP4 Video file (.mp4, .m4v, .mp4v, .3g2, .3gp2, .3gp, .3gpp)
- Windows audio file (.aac, .adt, .adts)
- MPEG2 TS Video file (.m2ts)

\*Additional video formats can be supported by the installation of additional software.