

DVS 4U SWARM4-RTX3080



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 4U SPARK4-RTX3080 is a fantastic mid-range performance rack mount server. The dedicated RTX3080 graphics card delivers excellent graphical performance and the intel-based processors options allow up to 8 cores and 16 threads for demanding single and multi-threaded workloads. 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 four 2.5" or 3.5" drive bays allow for higher capacity storage and RAID options. The 4U SPARK4-RTX3080 is excellent for local 3D interactives and demanding digital signage applications.

Specifications

- DVS 4U Rackmount Chassis - 465.2 x 430.0 x 176.0mm (D x W x H)
- 850 Watt PSU: 100 – 240V~, 10 – 5A, 47 – 63Hz
- 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 RTX3080 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)
 - 4 x SSD or HDD RAID (RAID 0, 1, 5 & 10)

Variations

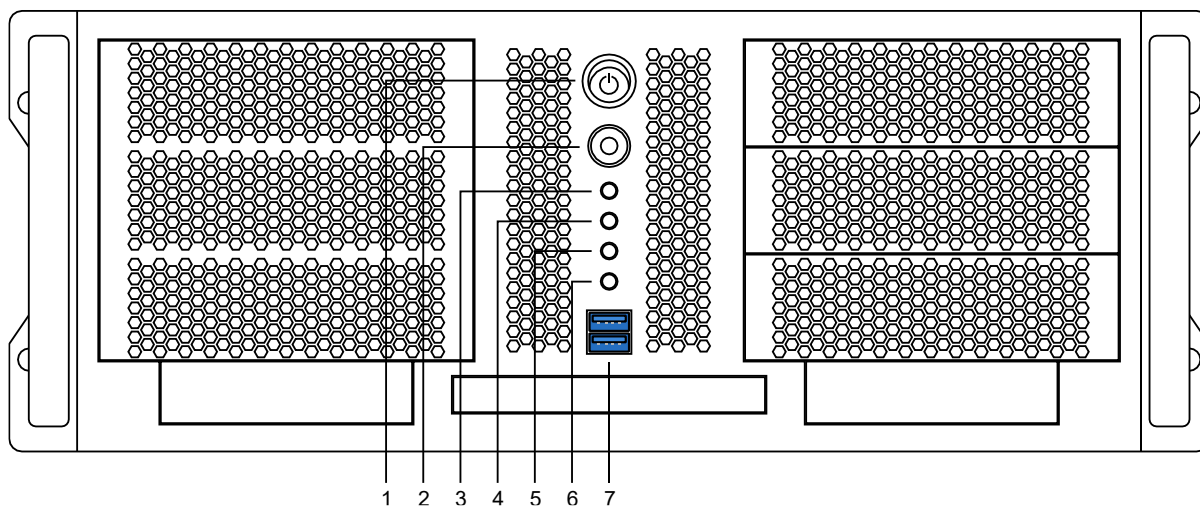
Model Number	SSD RAID	HDD RAID
4U SPARK4 -RTX3080		
4U SPARK4-RH-RTX3080		Yes
4U SPARK4-RS-RTX3080	Yes	

Graphics Card

Chipset	RTX3080
Microarchitecture	Ampere
Memory	10GB GDDR6X
Memory Bus	320 Bit
Interface	PCIe 4.0 (x16)
Microsoft DirectX Support	12 API
HDCP Ready	Yes
Maximum Concurrent Displays	4 Displays
Maximum Digital Resolution	7680x4320 @ 60Hz (8K UHD)
Outputs	3 x DisplayPort 1.4, 1 x HDMI 2.1
EDID Emulation	No
Sync Module Supported	No

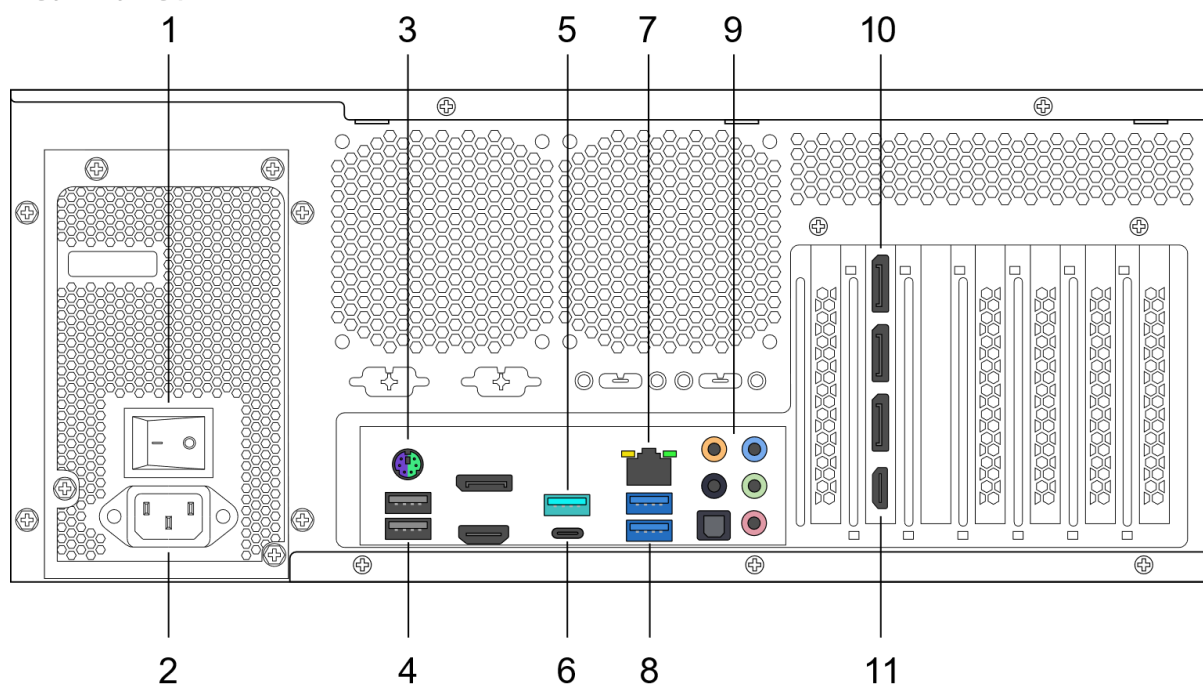
Connectors

Front Panel



1. **Power Button**
2. **Reset Button**
3. **Power LED**
4. **HDD Activity LED**
5. **LAN1 Activity LED**
6. **LAN2 Activity LED**
7. **USB 3.0 Ports**

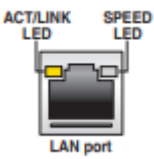
Rear Panel



1. **Power Supply Power Switch**
2. **Power IEC.** Mains Power Input: 100 – 240V~, 10 – 5A, 47 – 63Hz
3. **PS/2 Keyboard / Mouse Combo Port**
4. **USB 2.0 Ports**
5. **USB 3.2 Gen2 Type-A Port**
6. **USB 3.2 Gen2x2 Type-C Port**
7. **LAN RJ-45 Port.** 2.5 Gigabit Ethernet

LAN port LED Indications

Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No link	OFF	No Link
On	Linked	ORANGE	10/100/1000 Mbps connection
Blinking	Data activity	GREEN	2.5Gbps connection



8. **USB 3.2 Gen1 Type-A Ports.**
9. **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 Woofer	Centre / Sub Woofer
Black	-	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out

10. **DisplayPort 1.4 (x 3)**
11. **HDMI 2.1**

Internal Expansion

- M.2 Socket 2242/2260/2280/22110 storage devices support (PCIe x4 Gen4 mode)
- M.2 Socket 2242/2260/2280 storage devices support (both SATA & PCIe x4 Gen3 mode)
- 4 x 2.5" / 3.5" Drive bays (SATA), Supports RAID 0, 1, 10 and 5

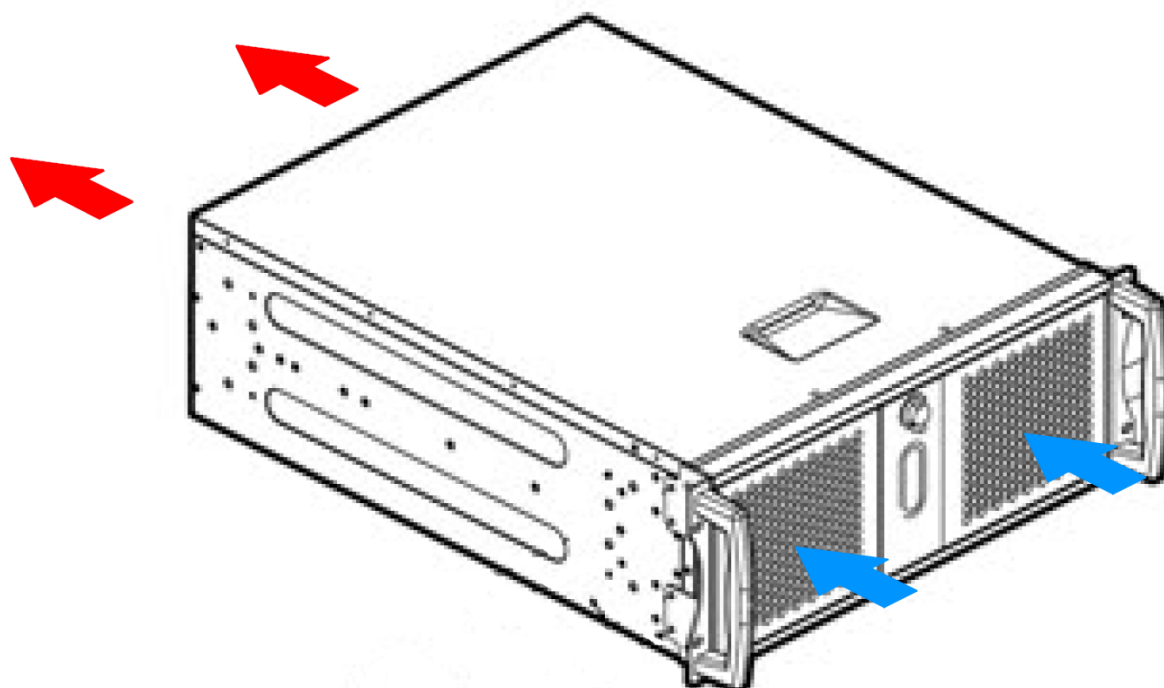
Chassis Specification

The DVS 4U SWARM4-RTX3080 is a four-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)	465.2 x 430.0 x 176.0 (mm), 18.32" x 16.93" x 6.93"
Drive Bay	Exposed: <ul style="list-style-type: none"> • 3 x 5.25" • 1 x 3.5" • 1 x Slim ODD Internal: <ul style="list-style-type: none"> • 4 x 3.5"

Ventilation

The 4U SWARM4-RTX3080 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.*