

DVS FATBOX SPARK4-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 FATBOX SPARK4-RTX3080 is a fantastic mid-range performance medium form-factor system. 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 three 2.5" drive bays allow for higher capacity storage and RAID options. The FATBOX SPARK4-RTX3080 is excellent for local 3D interactives and demanding digital signage applications.

Specifications

- DVS FATBOX Chassis - 247 x 211 x 366mm (WxDxH mm)
- 850 Watt PSU – 100 – 240V~, 12 - 6A, 50 – 60Hz
- Mini ITX Motherboard (Intel Z590 Chipset)
- Intel Processor (4, 6 or 8 core)
- 16 / 32 / 64 GB DDR4 Dual Channel Memory
- nVidia RTX 3080 Graphics Card (Up to 4 concurrent displays)
- 2 x NVMe M.2 Storage (Up to 2TB)
- 3 x 2.5" SATA Storage (Supports RAID 0, 1 & 5)
- 1 x 1 Gigabit Network Port

- 1 x 2.5 Gigabit Network Port
- Intel® 802.11ax WiFi Module + Bluetooth 5
- Operating System - Windows Enterprise IoT LTSC 2019 or Windows 10 Pro
- Optional Extras (Variants)
 - 3 x 2.5" SSD RAID (RAID 0, 1 & 5)

Variations

Model Number	SSD RAID
FATBOX SPARK4 -RTX3080	
FATBOX SPARK4-R5-RTX3080	Yes

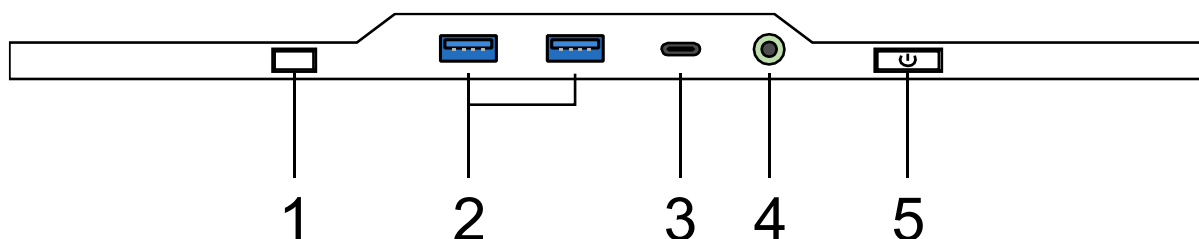
Graphics Card

Chipset	GeForce RTX 3080
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 Management	No
Sync Module Supported	No

Connectors

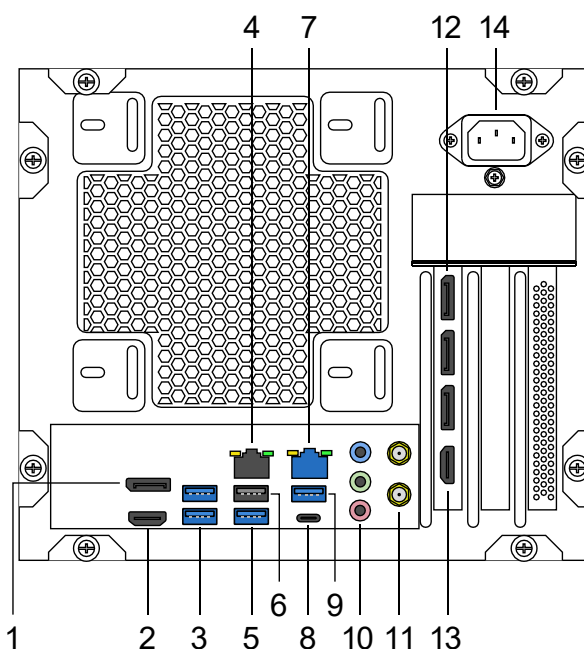
Front Panel

(Top Face)



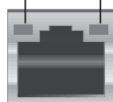
1. **Reset Button**
2. **USB 3.2 Gen1 Type A Ports**
3. **USB 2.3 Gen2 Type C Port**
4. **Headphone Audio Output**
5. **Power Button – With Power LED**

Rear Panel



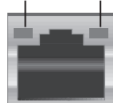
1. **Display Port (Onboard Graphics)**
2. **HDMI (Onboard Graphics)**
3. **USB 3.2 Gen2 Type A Ports**
4. **LAN RJ45 Port. 1 Gb Network**

LAN port LED Indications

Activity / Link LED		Speed LED		Activity Link LED	Speed LED
Status	Description	Status	Description		
Off	No link	OFF	10Mbps connection	 LAN port	
On	Linked	ORANGE	100Mbps connection		
Blinking	Data activity	GREEN	1Gbps connection		

5. **USB 3.2 Gen2 Type A Port**
6. **USB 2.0 Type A Port**
7. **LAN RJ-45 Port. 2.5 Gb Network**

LAN port LED Indications

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

8. **USB 3.2 Gen2x2 Type-C Port.**
9. **USB 3.2 Gen2 Type A Port**
10. **Audio Ports.**
 - a. Line In (Light Blue)
 - b. Front Speaker (Lime)
 - c. Microphone (Pink)

In order to configure 7.1 Audio, you must utilise the headphone out on the front of the FATBOX.

Audio Ports in 7.1 Channel Configuration	
Port	Function
Light Blue (Rear panel)	Rear Speaker Out
Lime (Rear panel)	Front Speaker Out
Pink (Rear panel)	Central / Subwoofer Speaker Out
Headphones (Front panel)	Side Speaker Out

11. **Antenna Ports**
12. **Display Port 1.4 (x 3)**
13. **HDMI 2.1**
14. **Power IEC.** Mains Power Input: 100 – 240V~, 12 - 6A, 50 – 60Hz (850W)

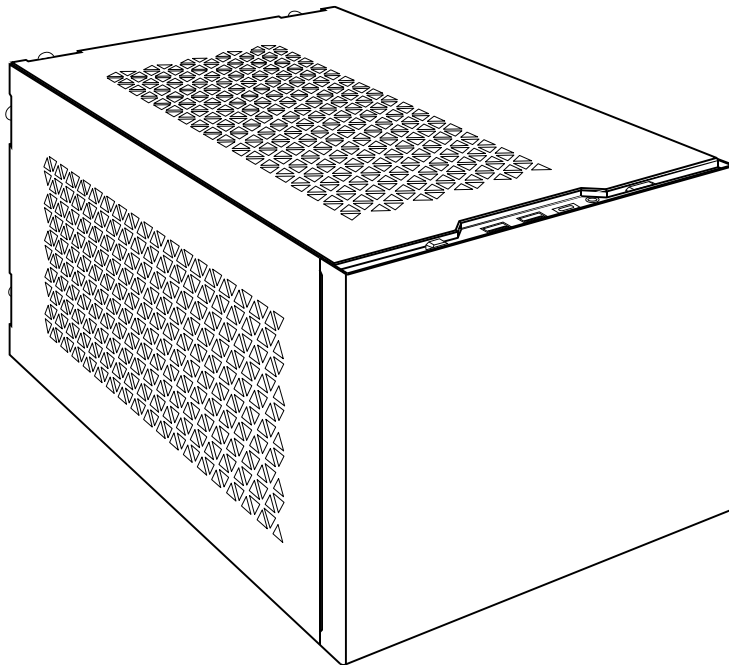
Note* On board display connections are not available for use.

Internal Expansion

- 1 x M.2 Socket 2280 storage devices support (PCIe x4 Gen4 mode)
- 1 x M.2 Socket 2280 storage devices support (both SATA & PCIe x4 Gen3 mode)
- 3 x 2.5" Drive bays (SATA), Supports RAID 0, 1 & 5

Chassis Specification

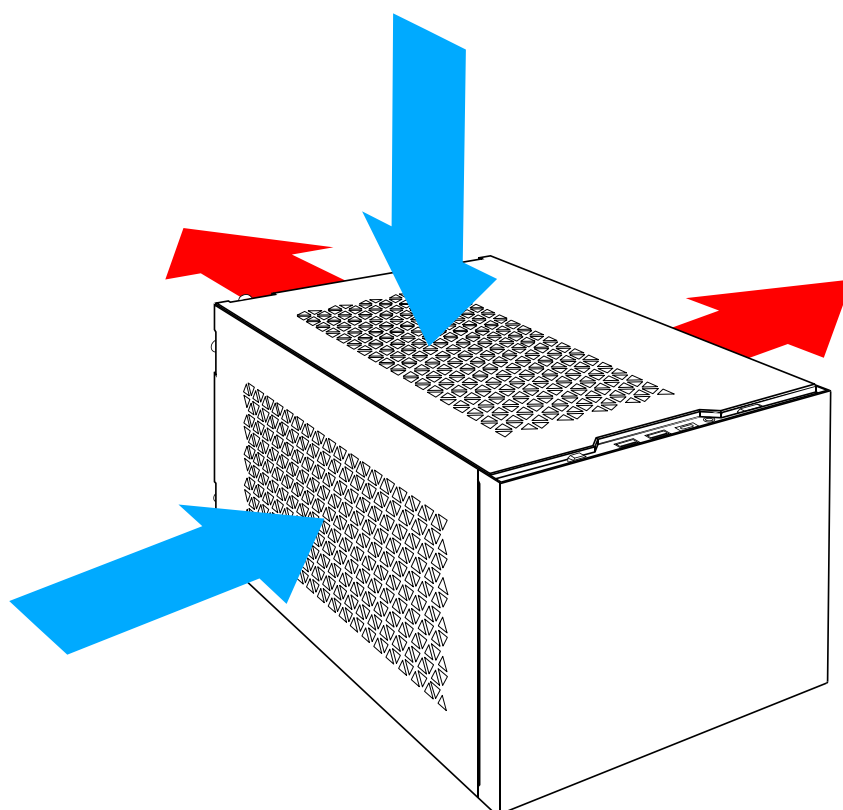
The FATBOX Chassis additional rubber feet.



Colour	Black
Material	Aluminium Exterior, Steel Body
Case volume	19.07 litres
Case dimensions (Horizontal) - W x H x D (mm)	247 x 211 x 366

Ventilation

The FATBOX Chassis has direct ventilation for the processor and graphics card. This chassis has active ventilation at the back and passive ventilation at the right side (looking from the front of the chassis). The GPU has direct ventilation on the left and there is an active 140mm fan drawing air in from the top. This ventilation is the typical setup for systems built into this chassis, However, it is flexible in its configuration and so some custom setups could vary from this diagram.



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.*