# DVS RAZOR


## Overview

The Razor range is DVS's ultra-small form factor series. Perfect for local playback of video content or 2D single screen interactive applications. With its Intel processor and Solid State NVMe Drive this ultra-small form-factor system is incredibly powerful.

The Razor embraces the latest Intel Chipset, this delivers a marked increase in both the CPU and GPU performance by way of the Intel's on-board graphics. The Razor can deliver stunning HD and 4K video via HDMI or DisplayPort outputs.

This is a major step forward in ultra-small form factor PC's being only 195 x 187 x 45mm (WxDxH mm) in size. Not forgetting control room environments, the DVS Razor can be rack mounted using the DVS 1.5U Razor Rack Mount Kit. This kit mounts two Razors neatly in the space of 1.5U.

** All systems are completely customisable, and the listed hardware is our standard recommendations. Please contact DVS for any advice on hardware recommendations*

### Specifications

- DVS Razor Pro Chassis inc. 150W External PSU - 195 x 187 x 45mm (WxDxH mm)
- Mini ITX Industrial Motherboard
- CPU - 4 core, 6 core or 6 core with hyper-threading
- 4/8/16/32GB DDR4 Memory
- 120 / 240 GB NVMe M.2 Storage
- Operating System - Windows Enterprise IoT LTSC 2019 or Windows 10 Pro



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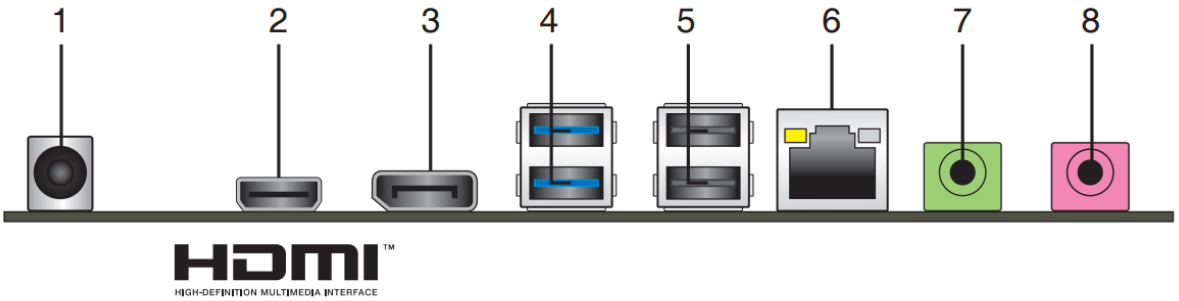
# Graphical Outputs

- HDMI – Maximum Resolution 4096 x 2160 @ 24Hz / 2560 x 1600 @ 60Hz
- DisplayPort – Maximum Resolution 4096 x 2304 @ 60Hz

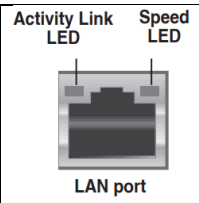
# Connectors – Rear Panel




1. **DC power connector**. Insert the power adapter into this port. It can support both 19V and 12V DC input
2. **HDMI port**. This port is for a High-Definition Multimedia Interface (HDMI) connector, and is HDCP compliant allowing playback of HD DVD, Blu-Ray, and other protected content.
3. **DisplayPort**. This port is for DisplayPort-compatible devices.
4. **USB 3.1 Gen 1 ports**. These 9-pin Universal Serial Bus (USB) ports are for USB 3.1 Gen 1 / 2.0 devices.
    a. USB 3.1 Gen 1 devices can only be used for data storage.
    b. We strongly recommend that you connect USB 3.1 Gen 1 devices to USB 3.1 Gen 1 ports for faster and better performance from your USB 3.1 Gen 1 devices.
    c. Due to the design of the Intel® 100 series chipset, all USB devices connected to the USB 2.0 and USB 3.1 Gen 1 ports are controlled by the xHCI controller. Some legacy USB devices must update their firmware for better compatibility.
5. **USB 2.0 / 1.1 ports**. These 4-pin Universal Serial Bus (USB) ports are for USB 2.0/1.1 devices.
6. **LAN (RJ-45) port**. This port allows Gigabit connection to a Local Area Network (LAN) through a network hub.

## LAN port LED Indications

| Activity / Link LED | | Speed LED | |
|---|---|---|---|
| Status | Description | Status | Description |
| Off | No link | OFF | 10Mbps connection |
| Orange | Linked | ORANGE | 100Mbps connection |
| Orange ( Blinking ) | Data activity | GREEN | 1Gbps connection |
| Orange ( Blinking then steady ) | Ready to wake up from S5 mode | | |




7. **Line Out port (lime)**. This port connects to a headphone or a speaker.
8. **Microphone port (pink)**. This port connects to a microphone.



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## Internal Expansion

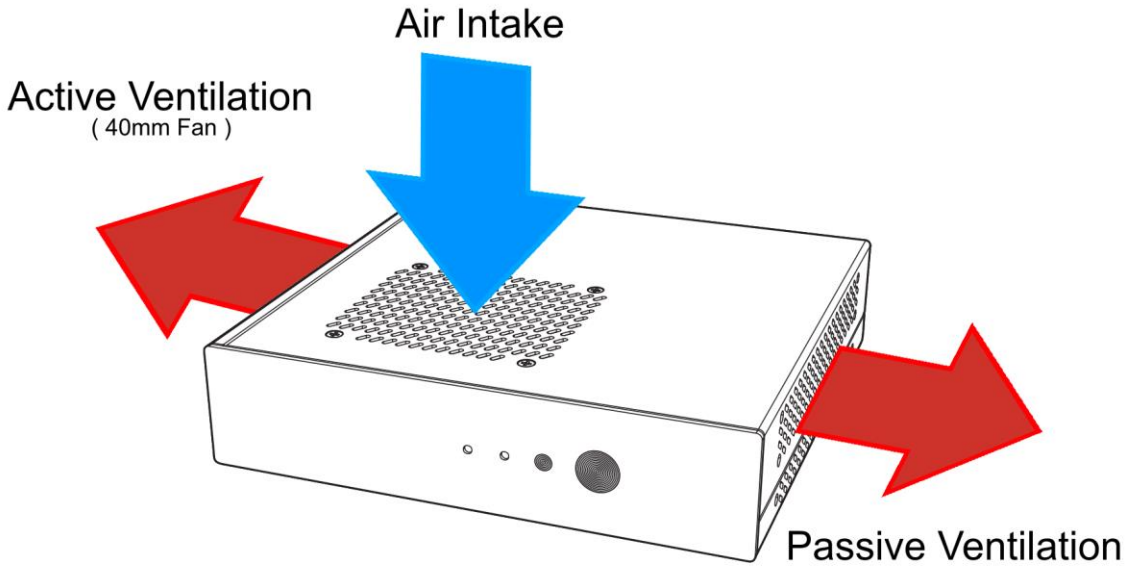
- 1 x M.2 Socket 1 with E key, type 2230 for WIFI/BT device support PCIE/ USB mode
- 1 x M.2 Socket 3 with M key, type 2260/2280 storage devices support (both SATA & PCIE x2 mode)

## Chassis Specification

| | |
|---|---|
| Material | SPCC steel 1.0mm with black coating interior |
| Panel material | Aluminium |
| VESA Mounting | Yes |
| Dimensions | 195 x 187 x 45mm (WxDxH) |
| Internal bays | 1 (for 2.5" HDD) |
| Cooling system | 40 x10mm fan x1 |
| External AC power adapter | 120W 100-240V~2.0A (input), +19V-6.32A (output)<br>7.4 mm/OD (outer diameter) and 5.0 mm/ID (inner diameter) plug<br>(Where the inner contact is +19 (±10%) V DC and the shell is GND.) |

## Ventilation

At minimum, the Air intake and active ventilation sides must be kept clear. The air intake must be provided with cool air and the active ventilation must be allowed to flow away from the system to prevent heat build-up.



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## Supported Video Formats

The Razor LoPro Series come with Windows installed. 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.*



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