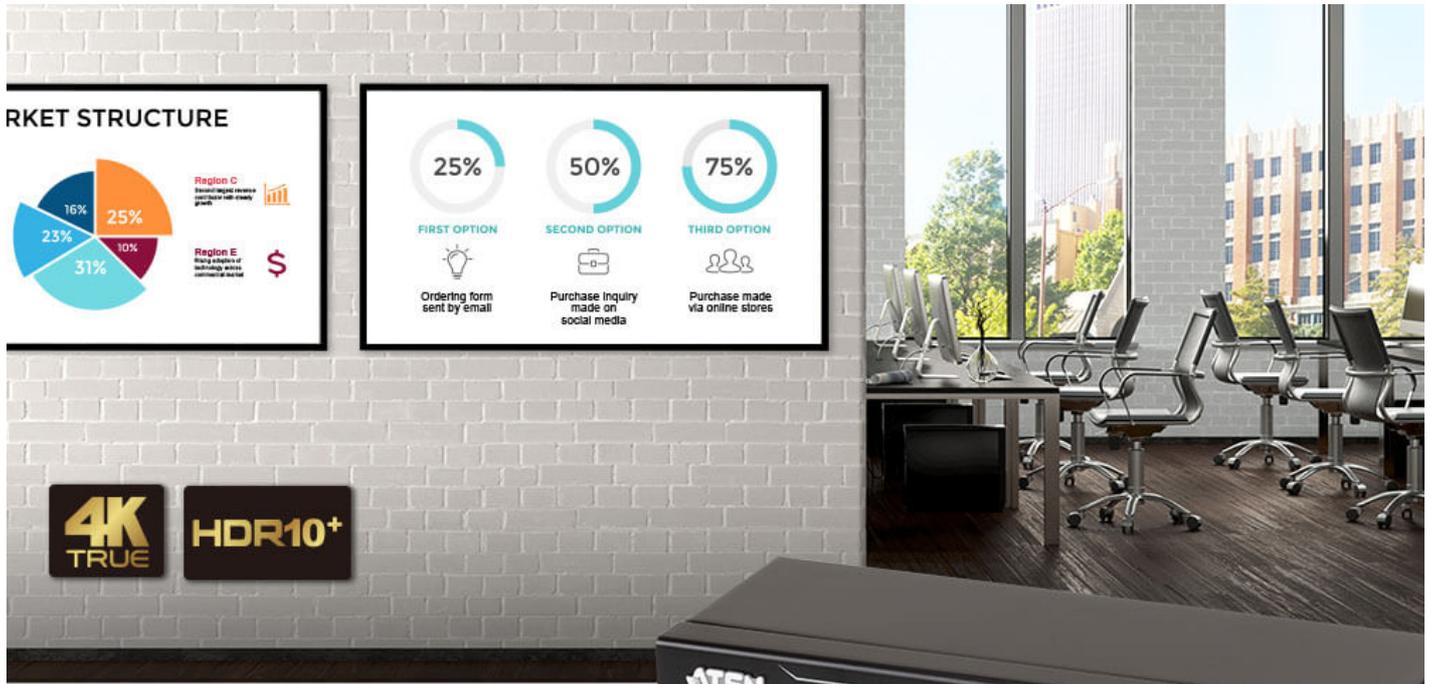


## VM0202HB

2 x 2 True 4K HDMI Matrix Switch with Audio De-Embedder





# VM0202HB

2 x 2 True 4K HDMI Matrix Switch with Audio De-Embedder

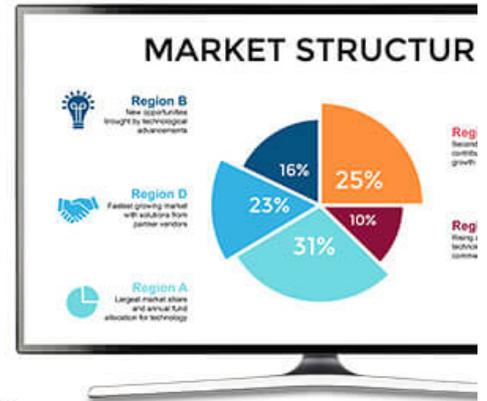
-   
**HDMI**  
 (3D, 4K, Deep Color)
-   
**Up to 4096 x 2160 @60Hz (4:4:4)**
-   
**Audio De-embedding**
-   
**Diverse Control**
-   
**Auto Switch**

**Ideal for Managing Content Across 2 Displays**

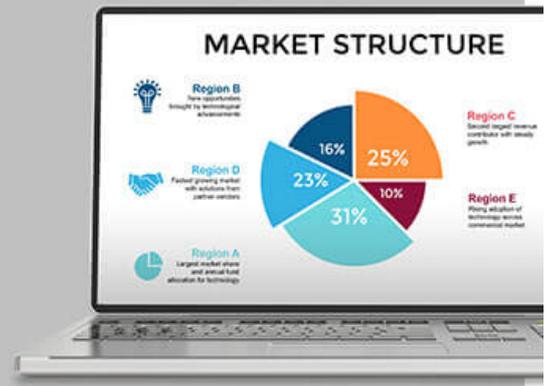
The VM0202HB is a compact 2 x 2 matrix switch compatible with HDMI source and display devices. Any input can be routed to any output, reducing the need for you to move devices or cables when displaying content from different HDMI sources on different outputs. It is ideal for meeting rooms and classrooms, as well as any venue where you need to switch between 2 different video sources on different displays.

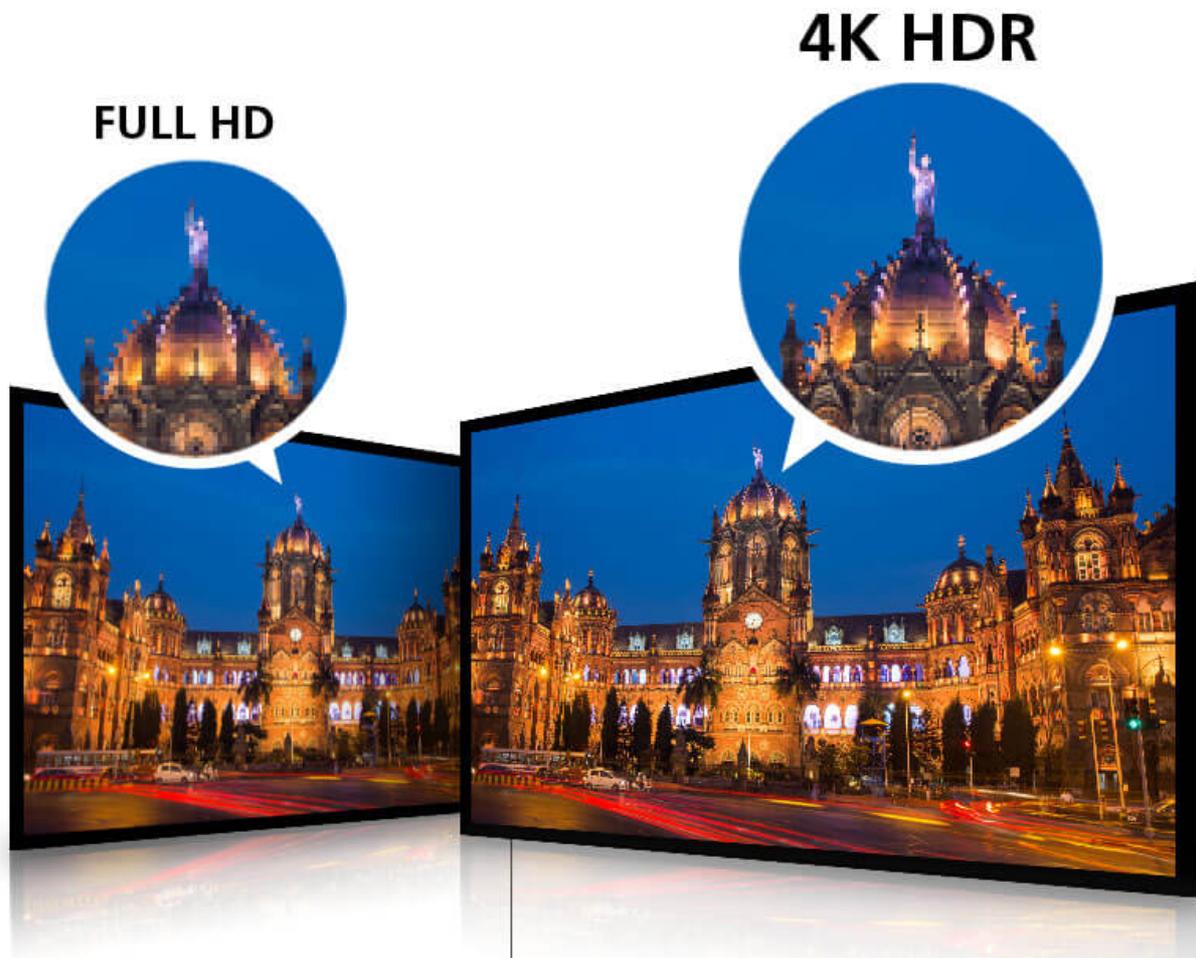


## Display Devices



## Source Devices





### Stunning Video Quality with True 4K, HDR

With support for up to 4096x2160@60Hz (4:4:4) resolutions, the VM0202HB delivers brilliant video quality with amazing detail. It is HDR-compatible and supports popular formats including HDR10+, Hybrid Log Gamma (HLG), and both static and dynamic HDR to deliver deeper blacks, brighter whites, and an extended color space.

## Contact Us

Get a quote for this product or get in touch with our sales experts

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### Flexible Audio De-Embedding

The VM0202HB is designed with the audio routing flexibility to meet different application requirements. In a simple setup, HDMI audio can be connected and switched directly to display audio. For a more complex setup, HDMI audio can be de-embedded to Audio Line Out in order connect to your preferred in-room audio equipment.



### Multiple Control Options for Easy Operation

The VM0202HB offers both manual and remote control options to make your operations easy. You can switch inputs to outputs and adjust audio settings manually through front panel pushbuttons. For remote control, simply plug-n-play the IR receiver and the corresponding IR remote. In addition, you can even integrate VM0202HB with your preferred control interface via RS-232.





### Fast and Convenient Auto Switching

The VM0202HB offers an auto switching function that makes operation more convenient for the user. This function can be set up via RS-232, and features two modes: Plugged Mode, which automatically detects and switches to a new source when connected; and Unplugged Mode, which automatically switches to the remaining source when the current display source is disconnected.

## Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly



## Features

The VM0202HB is a 2 x 2 True 4K [HDMI Matrix](#) Switch featuring audio de-embedding. The VM0202HB offers an easy and affordable way to route True 4K high-definition HDMI video and audio. Supporting video resolutions up to 4096 x 2160 @ 60Hz (4:4:4), HDR, audio de-embedder, and data rates up to 18 Gbps, the VM0202HB delivers robust signal routing and swift digital video/audio switching that is perfect for most AV applications.

The VM0202HB matrix switch delivers superior video resolutions up to 4096 x 2160 @ 60Hz (4:4:4), and also provides highperformance routing of 2 HDMI video sources such as highdefinition Blu-ray players, home theater PCs, camcorders, DVD players, satellite boxes and stand-alone streaming media players to any 2 HDMI displays. In addition, the built-in audio deembedder allows HDMI audio extraction for independent analog audio output with ease. For efficient control and management, VM0202HB's remote control and front-panel pushbuttons provide a convenient way to cycle through HDMI video and audio sources with clear LED indication of the selected source.

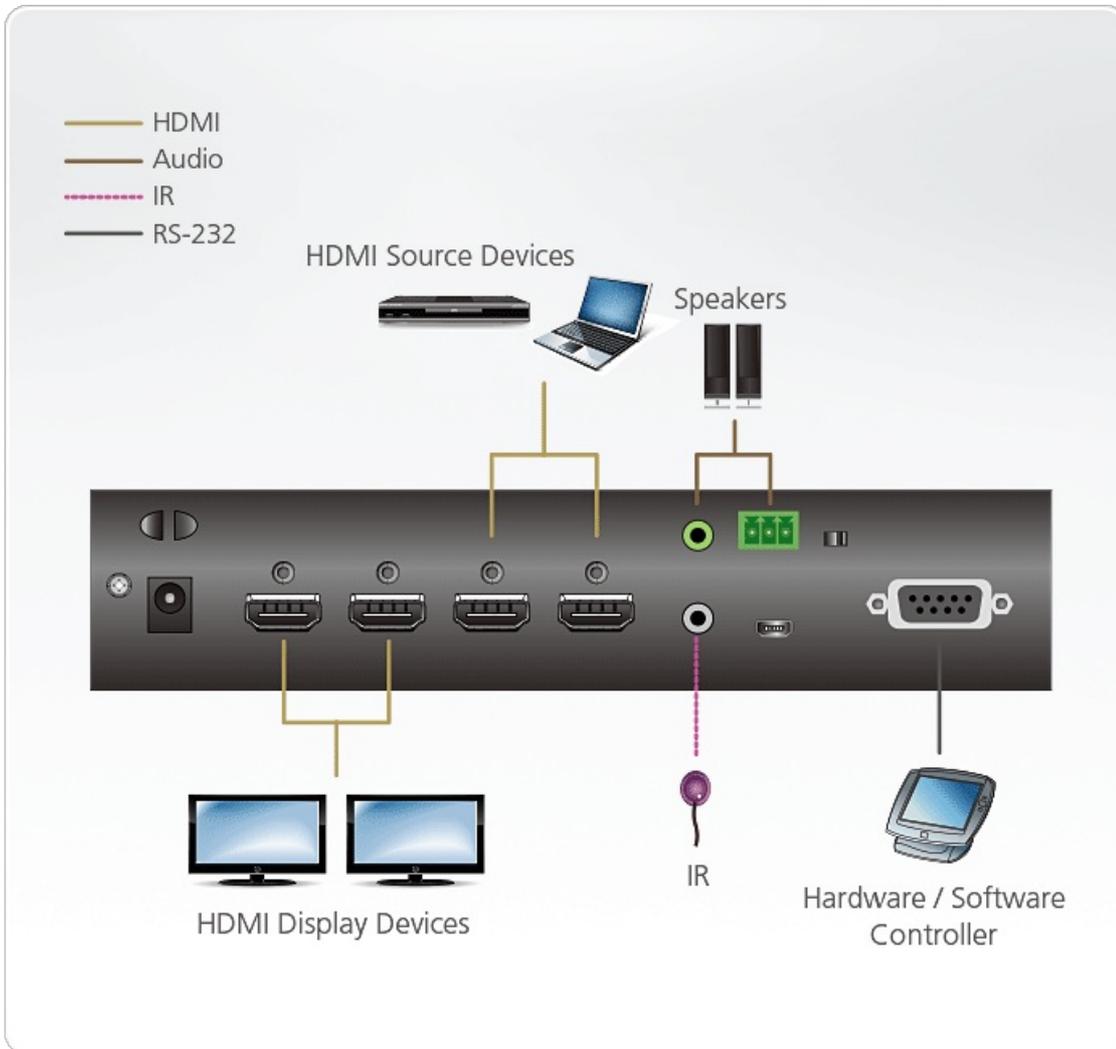
- Connects 2 HDMI sources to any 2 HDMI displays
- Max. Data Rate 18.0 Gbps (6.0 Gbps Per Lane)
- Supports True 4K resolutions up to 4096 x 2160 @ 60Hz (4:4:4) and HDR
- Audio de-embedder – HDMI audio can be extracted to stereo or Lineout audio
- Supports Dolby True HD and DTS HD Master Audio
- Auto switching – automatically detects and switches to a new source once connected (Default: off)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 serial control
- Long-distance transmission up to 5 meters
- HDMI (3D, 4K, Deep Color); HDCP 2.2 Compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to one remote control
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- Supports ATEN's Lock Pro™ HDMI cable lock for secure HDMI cable connections
- All metal casing
- Firmware upgradable
- Rack mountable

## Specifications

|                  |  |
|------------------|--|
| Video Input      |  |
| Interfaces       | 2 x HDMI Type A Female (Black)   |
| Impedance        | 100 Ω  |
| Max. Distance    | 5.0 m  |
| Video Output     |  |
| Interfaces       | 2 x HDMI Type A Female (Black)   |
| Impedance        | 100 Ω  |
| Max. Distance    | 5.0 m  |
| Video            |  |
| Max. Data Rate   | 18.0 Gbps (6.0 Gbps Per Lane)  |
| Max. Pixel Clock | 600 MHz  |
| Compliance       | HDMI (3D, 4K, Deep Color)<br>HDCP 2.2 Compatible<br>Consumer Electronics Control (CEC) |
| Max. Resolution  | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)   |
| Max. Distance    | Up to 5.0 m  |
| Audio            |  |

|                        |  |
|------------------------|--|
| Output                 | 1x Mini Stereo Jack Female; 1x Captive Screw Connector, 3 pole   |
| Control                |  |
| USB                    | 1 x Micro USB<br>F/W upgrade   |
| RS-232                 | Connector: 1 x DB-9 Female (Black)<br>Baud rate and protocol:<br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No   |
| IR                     | 1 x Mini Stereo Jack Female (Black)  |
| EDID Settings          | EDID Mode: Default / Port1 / Remix   |
| Connectors             |  |
| Power                  | 1 x DC Jack (Black)  |
| Power Consumption      | DC5V:2.47W:11BTU/h<br><br>Note:<br><ul style="list-style-type: none"> <li>● The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul> |
| Environmental          |  |
| Operating Temperature  | 0-40°C   |
| Storage Temperature    | -20 - 60°C   |
| Humidity               | 0 - 80% RH, Non-Condensing   |
| Physical Properties    |  |
| Housing                | Metal  |
| Weight                 | 0.60 kg ( 1.32 lb )  |
| Dimensions (L x W x H) | 20.00 x 7.60 x 4.20 cm<br>(7.87 x 2.99 x 1.65 in.)   |
| Carton Lot             | 5 pcs  |
| Note                   | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.  |

Diagram



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