

The Atona **AT-OME-MS52W** is a 5×2 matrix switcher with HDMI, USB-C, DisplayPort, and wireless AV inputs, plus HDMI and HDBaseT outputs. It features wireless presentation capability and native screen mirroring for iOS®, Android™, Mac®, Chromebook™, and Windows®. Part of the **Omega™ Series** of integration products for modern AV communications and collaboration, the OME-MS52W is HDCP 2.2 compliant and features HDBaseT extension for video up to 4K/60 4:2:0, plus embedded audio, control, Ethernet, and USB over distances up to 330 feet (100 meters). All inputs and the local HDMI output support 4K HDR and 4K/60 4:4:4 at HDMI data rates up to 18 Gbps. The integrated USB extension addresses the challenge of connecting between USB devices at remote locations, and is ideal for software video conferencing and touch or interactive displays. The OME-MS52W includes USB 2.0 and USB-C interfaces for three host PCs, plus two peripheral devices such as a camera, microphone, speakerphone, or keyboard and mouse.

USB Extension for Video Conferencing with Zoom, Skype for Business, Microsoft Teams, and More

The OME-MS52W features integrated USB extension over HDBaseT up to 330 feet (100 meters). This capability, plus interfacing for host PCs and USB peripherals makes the OME-MS52W ideal for video conferencing and UC (unified communications) platforms such as Zoom, Skype® for Business, Microsoft® Teams®, Cisco® Webex®, BlueJeans, and GoToMeeting®. Available from Atona is the **AT-HDVS-CAM** PTZ camera with USB interface.

Wireless BYOD Connectivity

In addition to wired AV connections, the OME-MS52W interfaces with a presenter's iOS, Android, Mac, Chromebook, or Windows device over Wi-Fi®, and allows screen mirroring without the need to install an app. It can serve as an integrated, dual band access point, or be networked into an existing Wi-Fi installation. With a second antenna (included), the OME-MS52W can also provide simultaneous Wi-Fi and Miracast™ (Wi-Fi Direct®). In addition, the OME-MS52W supports Miracast over Infrastructure which allows Miracast over a facility Wi-Fi network or LAN, rather than over a direct wireless link. Please [click here](#) for complete information about wireless AV connectivity with the OME-MS52W.

(Note: URL casting is not available for video from apps such as YouTube™, Netflix®, Hulu®, and Amazon® Prime® Video.)

Versatile Matrix Switcher,Scaler, and Extender

The OME-MS52W is ideal for video conferencing and many other 4K presentation applications with the **OME-EX-RX** receiver and **OME-SR21** scaling receiver. It combines the benefits of auto-switching, integrated display control, USB extension, and more. The OME-MS52W incorporates many popular integration convenience features, while delivering excellent performance and value for 4K presentation and video conferencing applications. It combines the benefits of wireless BYOD compatibility, built-in Wi-Fi access points, auto-switching, integrated display control, USB extension, and more. The USB-C input is ideal for AV interfacing with newer laptops and mobile devices, plus data connectivity (to the local USB hub and over HDBaseT). Additionally, the OME-MS52W can provide powering to the receiver, and charge laptops and mobile devices through the USB-C port. For additional integration convenience, the OME-MS52W features audio de-embedding and remote management with **AMS (Atona Management System)**.

Automatic Display Control

The OME-MS52W can provide control to a display through TCP/IP, RS-232, or CEC*, without the need for a separate control system. This simplifies system design and integration while reducing costs. With automatic display control, the OME-MS52W can trigger a display to power on automatically whenever a laptop or other device is connected to the OME-MS52W. At the end of the presentation, when the presenter disconnects the laptop, the OME-MS52W forces the display to power off. Ease of presenter interaction with the system, and the savings incurred by automatic display shutdown provide a significant return on investment. The OME-MS52W display control capability can also be triggered by an external control system.

** Consumer Electronics Control (CEC): Atona does not guarantee the function of CEC with all televisions. We can confirm proper operation with many current Samsung, Panasonic, Sony, and LG TVs. Many manufacturers do not support the CEC "off" command when sent from a source and older TVs use proprietary commands. Atona only supports those TVs that follow CEC command structure from HDMI 1.2a and support the "off" command when issued by a source. We encourage any dealer to get evaluation product from Atona prior to designing a system around this control technology or be prepared to use other methods to control their displays if Atona CEC is not compatible with the installed displays.*

Reliable Auto-Switching

When the HDMI and HDBaseT outputs are mirrored, the OME-MS52W can automatically select an input source based on detection of the 5 volt hot plug detect (HPD) signal, as well as active video. This ensures reliable auto-switching operation for all video sources, including DVRs, DisplayPort / Mini DisplayPort adapters, and other devices that always maintain the HPD line at the 5 volt "high" state but may not be delivering active video.

Applications

- **Meeting spaces** – The OME-MS52W provides the flexibility to accept any presenter device, whether wired or wireless. This capability is ideal for a wide range of meeting environments, from a huddle room to a large presentation space in a convention center.
- **Classrooms and auditoriums** – A credenza or lectern-based AV system for resident sources, plus wireless connectivity for a participant's laptop or tablet. An instructor can moderate wireless AV presentations between up to 16 student mobile devices.
- **Video conferencing** – With the OME-EX-RX or OME-SR21 receiver, this switcher provides interfacing for local and remote USB devices for soft codec conferencing, with video and USB switched together between host PCs.

Product Compatibility

The OME-MS52W is not compatible with the Atona HDVS-300 system for USB extension.

5x2 AV matrix switcher

- Features USB-C, DisplayPort, and two HDMI inputs, plus a dedicated wireless AV input
- Delivers flexible BYOD capability without the need to provide adapters for USB-C or DisplayPort to HDMI

USB-C input for AV, data, and device charging

- Provides immediate compatibility with laptops and tablets with USB-C ports supporting AV output
- Allows clutter-free, single cable connectivity to a PC for video conferencing and collaboration

HDBaseT and HDMI outputs with selectable AV switching modes

- Selectable switching modes available with mirrored or matrixed outputs
- Enables simple configuration and effortless user operation, tailored to the specific AV application

Wireless AV gateway

- Provides convenient Wi-Fi connectivity for an iOS, Android, Mac, Chromebook, or Windows-based device
- Integrated access point can be segregated from the facility network for security reasons
- *Note: Does not support URL casting of video from apps such as YouTube, Netflix, Hulu, and Amazon Prime Video.*

Native platform-based, wireless interfacing

- Allows screen mirroring without the need for a separate app*
- Supports wireless video up to 1080p/30 4:2:0 (up to 1080p/60 with Miracast)**
- Supports Bluetooth®-assisted iOS device discovery. An optional Bluetooth adapter is required (not included with the SW-510W). The [Plugable](#) and [Kinivo](#) Bluetooth 4.0 adapters are recommended.
- Also supports Miracast over Infrastructure for use of facility Wi-Fi or Ethernet network
- Wireless AV interfacing can be selectively enabled or disabled for each native platform
- * [Please click here](#) for complete information about wireless AV connectivity with the OME-MS52W.
- ** Video resolution capability is dependent on wireless signal quality.

Moderator mode for wireless AV presentations

- Allows a user to moderate between up to 16 wirelessly connected devices through the OME-MS52W web GUI
- Moderator can allow or kick (remove) any device from presenting on-screen

Video, audio, power, and data over category cable utilizing HDBaseT technology

- Transmits up to 330 feet (100 meters) @ 1080p with CAT5e/6 or 4K/UHD using CAT6a/7 cable
- Uses easy-to-integrate category cable for low-cost, reliable system installation

USB 2.0 interfacing and extension* over HDBaseT

- Two USB type B interfaces for connection to a host PC, plus two USB type A ports for a peripheral device such as a microphone, speakerphone, or a keyboard and mouse
- USB-C input is also available for data connection to a host PC
- Provides an ideal USB integration solution for software video conferencing and other applications
- * *Maximum 120 Mbps data rate supported over HDBaseT.*

4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling on local ports (HDMI, DisplayPort, and USB-C), plus support for HDR formats

- HDBaseT output supports 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling
- HDMI, DisplayPort, and USB-C inputs, plus HDMI output are compatible with 4K HDR10 @ 60 Hz and Dolby Vision™ @ 60 Hz, as well as HLG (Hybrid Log-Gamma) for 60p HDR broadcast services

Local powering

- Supplies industry standard IEEE 802.3at PoE+ for powering a receiver over HDBaseT
- Provides charging for a USB-C mobile device

Automatic display control

- Automatically changes display power state based on active or standby mode of the switcher. Control signals to display are transmitted via IP, RS-232, or CEC.
- Works for both wired and wireless source devices
- Enables display and volume control. CEC enables control of consumer displays (as supported by the display manufacturer).

Audio embedding

- Embeds incoming analog two-channel audio onto any of the video inputs
- Allows simple integration of audio from PCs

Audio de-embedding

- De-embeds two channel PCM audio from any video source to a balanced, analog audio output
- Provides direct interfacing into an external audio system

Multi-channel audio compliant

- Passes through multi-channel audio formats from the HDMI or HDBaseT inputs
- Supports PCM, Dolby® Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS® Digital Surround™, DTS-HD Master Audio™, and DTS:X®

EDID management

- Manages EDID communications with the source through a display's EDID or internally stored EDID
- Ensures desired audio formats and video resolutions are provided to the AV system

HDCP 2.2 management

- Automatically reports HDCP compliance status to the source based on the sink device
- HDCP compliance can also be disengaged through AMS or a control system
- Allows non-protected material from PCs to pass to non-compliant displays, streaming devices, and teleconference systems; protected content is not transmitted
- Displays a green splash screen as visual confirmation that protected content is being blocked from transmission to a non-compliant display

Integrated HDBaseT link testing and status monitoring

- Tests integrity of the HDBaseT cable link between each input or output and the corresponding transmitter or receiver
- Web GUI provides real-time link status
- Quick, easy verification or troubleshooting of RJ-45 termination or twisted pair cable quality

Intuitive GUI-based configuration using integrated web server

- Offers menu-based configuration of device settings including network access, input switching, I/O routing for video and audio, signal processing, display control, HDCP and EDID management, and more
- Allows fast configuration of internal product settings and troubleshooting from a mobile device or PC in the field

TCP/IP and RS-232 control

- Flexible control options for compatibility with the Atona [Velocity™](#) control system, as well as other third-party control systems
- Reduces integration time and costs

IP to RS-232 translation

- Converts TCP/IP commands to RS-232 commands for output to external devices over HDBaseT
- Enables single IP connection to control processor to control both IP and RS-232 connected devices at remote endpoints

Contact closure for screen or display lift control

- Dry contact closure triggers electronic screen or lift operation based on active or standby mode of the switcher
- Automates screen or lift activation at system power-up; eliminates need for a separate AV control system

Trigger I/O ports for occupancy sensing

- When used with an occupancy sensor, the switcher can be set to automatically go into standby, and power off the display once participants have left the room
- Greatly simplifies user operation by avoiding the need to manually power the system on or off

Easy to configure and manage with AMS (Atona Management System)

- Centralized, network-based configuration and management of Atona IP-controllable products and systems
- Manage configuration and firmware updates for AV devices spanning a facility, building, enterprise, or residence
- Available as a cost-effective [server appliance](#), or a [free software download](#)

Field-updatable firmware

The Ationa **AT-OME-EX-WP-KIT** is an HDBaseT extender for video up to 4K/60 4:2:0, plus embedded audio, control, and USB over distances up to 330 feet (100 meters). The transmitter features a US one-gang, Decora-style wallplate form factor, and includes interchangeable black and white wallplates and faceplates. Part of the **Omega™ Series** of integration products for modern AV communications and collaboration, the OME-EX-WP-KIT is HDCP 2.2 compliant and extends RS-232 control signals. The integrated USB extension addresses the challenge of connecting between USB devices at remote locations, and is ideal for software video conferencing and touch or interactive displays. The OME-EX-TX-WP transmitter includes a USB 2.0 host interface for a PC, plus a peripheral device such as a speakerphone, microphone, or keyboard and mouse. The OME-EX-RX receiver provides two USB interfaces for devices such as a camera, soundbar, or display. The **transmitter** and **receiver** are available separately, for use with other Omega Series integration products.

The OME-EX-WP-KIT incorporates many popular integration convenience features, while delivering excellent performance and value for 4K presentation and video conferencing applications. The receiver remotely powers the transmitter through Power over Ethernet (PoE).

USB Extension for Video Conferencing with Zoom, Skype for Business, Microsoft Teams, and More

The OME-EX-WP-KIT features integrated USB extension over HDBaseT up to 330 feet (100 meters). This capability, plus interfacing for host PCs and USB peripherals makes the OME-EX-WP-KIT ideal for video conferencing and UC (unified communications) platforms such as Zoom, Skype® for Business, Microsoft® Teams®, Cisco® Webex®, BlueJeans, and GoToMeeting®. Available from Ationa is the **AT-HDVS-CAM** PTZ camera with USB interface.

Applications

- **Video conferencing** – The OME-EX-WP-KIT is ideal for soft codec and web-based conferencing applications, with the ability to integrate with a PC and speakerphone or microphone near presenters, and a camera or soundbar at the wall-mounted display.
- **Interactive displays** – The OME-EX-WP-KIT can also provide AV and USB extension for a touch-enabled display, allowing remote PC control at a wall, lectern, or other location.

Product compatibility

The OME-EX-WP-KIT is not compatible with the Ationa HDVS-300 system for USB extension.

- Includes an adjustable lamp cooldown mode to avoid prematurely powering up a projector after shutdown
- Enables effortless, automated system operation without the need for an external control system

Automatic input selection* using hot plug detect and video detection technology

- Selects active input when sources are connected or if there is a change in source power status
- Works for both wired and wireless source devices
- Enables simplified, automatic system operation without user intervention
- ** Available when the switching mode is set to mirrored HDMI and HDBaseT outputs.*

Splash screen customizable with welcome message and BYOD connection information

- The OME-MS52W displays a welcome screen with instructions for participants and guests to present from their devices
- Messaging and connection instructions can be customized with the option to display or hide specific network or access information
- Ability to upload multiple splash screen background images that can be rotated

Secure wireless access and content sharing

- Prevent unauthorized Wi-Fi access (room hijacking) with user-defined or randomly generated authentication passwords
- Prevent unauthorized iOS and Mac wireless content sharing with randomly generated PIN pin codes, refreshed every five minutes
- BYOD wireless connection can be set to a maximum specified duration
- Configurable firewall available to restrict incoming and outgoing network traffic

Supports industry-standard, network security features and protocols

- Prevent unauthorized Wi-Fi access (room hijacking) with user-defined or randomly generated authentication passwords
- HTTPS, SSH, IEEE 802.1x, and WebSockets with TLS, WPA2-PSK, and AES-128 encryption

- Device can be updated in the field via AMS or the web GUI

Front panel button controls and status LEDs

- Matrix switcher can conveniently be operated from the front panel
- LED indicators provide power, HDBaseT link, and input selection status information

Rack-mountable 1U, half rack width enclosure

- Includes surface mounting hardware for easy installation into confined spaces below tables and in furniture
- Installs easily in rack mounted systems with the optional **AT-RACK-1RU** rack shelf

Included accessories

- Installation guide, surface mounting hardware, and 2 meter (6.5 foot), USB-C male-to-male cable (USB 3.1 Gen 1), and external universal power supply

Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in commercial and residential systems
- Specify, purchase, and install with confidence

Video, audio, power, and data over category cable utilizing HDBaseT technology

- Extends up to 330 feet (100 meters) @ 1080p with CAT5e/6 or 4K/UHD using CAT6a/7 cable
- Uses easy-to-integrate category cable for low-cost, reliable system installation

US one-gang enclosure for Decora-style wallplate openings –interchangeable black or white trim kits

- Allows inconspicuous installation on a wall, in furniture, or in a floor box. Includes black and white wallplates and faceplates.
- Meets end user requirements for conveniently accessible yet discreet AV connectivity

USB 2.0 interfacing and extension* up to 330 feet (100 meters)

- Transmitter features USB type B interface for connection to a host PC, plus a USB type A port for a peripheral device such as a microphone or speakerphone
- Receiver features two USB type A ports for peripheral devices such as a camera or display
- Provides an ideal USB integration solution for software video conferencing and other applications
- * Maximum 120 Mbps data rate supported over HDBaseT.

4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling

- Compatible with sources up to 4K/60 4:2:0 and 4K/30 4:4:4
- Supports HDMI data rates up to 10 Gbps from PCs, media players, and Ultra HD Blu-ray players

HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection
- Allows protected content stream to pass between authenticated devices

Transmitter powered by receiver via PoE (Power over Ethernet)

- Industry standard IEEE 802.3af PoE for transmitter is supplied by receiver over HDBaseT
- Allows convenient wall, floor box, or furniture installation without the need for local AC power

Multi-channel audio compliant

- Passes through multi-channel audio formats
- Supports PCM, Dolby® Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS® Digital Surround™, DTS-HD Master Audio™, and DTS:X®

Field-updatable firmware

- Device can be updated in the field via the USB port

Front panel power and signal status LEDs

- LED indicators provide power and HDBaseT link status information
- Provides convenient setup and troubleshooting

Low-profile, 1.02 inch (26 mm) high enclosure (receiver)

- Easy installation into confined spaces below tables, in furniture, and behind or above displays

Included accessories

- Installation guide, interchangeable black and white wallplates and faceplates, surface mounting hardware, and external universal power supply

Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in commercial and residential systems
- Specify, purchase, and install with confidence