



# Pro AV/IT Integrator Series™ 3x2 USB-C + HDMI 4K 60Hz 4:4:4 Matrix Switcher with USB 3.0 Hub, IP & RS232 Control and 60W PD

## 3x2 Matrix Switcher with USB 3.0 Hub

The Comprehensive CSW-302PSMC is a highly flexible 3x2 matrix switcher designed to meet the demands of various environments requiring versatility in inputs, outputs, and control. It offers the two most used video input interfaces, HDMI and USB-C, along with two HDMI outputs, ensuring excellent source compatibility and flexibility. This unit is HDCP 2.2 compliant and supports resolutions up to 4K@60Hz (4:4:4, 8-bit), delivering high-quality visuals.

Moreover, the CSW-302PSMC includes a USB-C input that operates on USB 3.0 specifications, providing support for AV transmission, device charging, and network connection. Additionally, this matrix switcher incorporates a USB 3.0 hub with two host ports (Type-B and Type-C) and two device ports (Type-A), enabling a flexible KVM configuration. This makes it well-suited for applications such as meeting rooms, classrooms, and audio integration with USB expansion.



To ensure ease of use, the CSW-302PSMC can be controlled through various methods, including front panel controls, Web GUI, Telnet, and RS-232. This wide range of control options allows for convenient and efficient management of the switcher.

With its comprehensive features and control capabilities, the Comprehensive CSW-302PSMC is an ideal solution for environments where flexibility, compatibility, and reliable performance are crucial, making it a versatile choice for audio-visual integration.

## Auto & Manual Switching

The CSW-302PSMC offers both manual and automatic switching capabilities, ensuring a seamless experience when transitioning between HDMI, USB-C. With the "First-In, Last-Out" rule, the switcher intelligently detects and prioritizes the most recently activated input, eliminating the need for manual intervention during the switching process.

Whether you prefer to manually select your desired input or let the switcher handle the switching automatically, the CSW-302PSMC provides a user-friendly and efficient solution. This feature makes it effortless to switch between different input sources, guaranteeing a smooth and uninterrupted flow of audio and video signals. Whether you're in a meeting room, classroom, or any other audio-visual environment, the CSW-302PSMC ensures a seamless switching experience.

## Supports 4K HD Video up to 4K@60Hz 4:4:4 18G

The Comprehensive CSW-302PSMC is a highly versatile USB-C and HDMI switcher that excels at transmitting 4K resolutions up to 4K@60Hz, 4:4:4. This exceptional capability makes it an ideal solution for a wide range of applications, including classrooms, meeting rooms, huddle spaces, and various AV installations that require the sharing and distribution of true 4K signals.

By leveraging the CSW-302PSMC, you can enjoy stunning visual quality and clarity, allowing for an immersive viewing experience. Whether you're displaying educational content in a classroom, conducting presentations in a meeting room, or collaborating in a huddle space, this switcher ensures that your 4K signals are accurately transmitted and shared among multiple displays or projectors.

With its ability to handle high-resolution content and maintain signal integrity, the CSW-302PSMC provides a reliable solution for seamless and efficient 4K signal distribution in diverse AV installations.

## Charge your Laptop, Tablet or Phone While You Present

With the convenient USB-C input on the CSW-302PSMC, you can effortlessly connect your device without the worry of battery depletion. Say goodbye to the hassle of carrying chargers or running out of power during important presentations or video conferences. This versatile switcher supports impressive charging capabilities of up to 60W, ensuring that your devices, be it a smartphone or a laptop, receive a reliable power supply while you focus on delivering your content or engaging in virtual meetings. Whether you're presenting in a professional setting or participating in remote collaborations, the CSW-302PSMC keeps your devices charged and ready to perform, providing you with uninterrupted productivity and peace of mind.

## Included USB 3.0 Hub and Switching

Take advantage of the comprehensive USB hub and switching capabilities of the CSW-302PSMC. This versatile switcher allows you to seamlessly incorporate your USB devices, such as a PTZ camera, speakerphone, or sound bar, into your setup. With the ability to switch between two host PCs, you can easily toggle control and access between different computers, maximizing flexibility and convenience.

**CSW-302PSMC**



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By connecting your USB devices to the CSW-302PSMC, you can streamline your audio and video setup, creating a seamless and integrated environment for presentations, video conferencing, and collaborative work. Whether you need to switch between different host PCs or utilize multiple USB devices simultaneously, this switcher provides the functionality you need to effortlessly manage your setup.

With the CSW-302PSMC, you can optimize your workflow, enhance your audio-visual experience, and ensure smooth switching between devices and host PCs, all within a single, efficient solution.

## Compatible with Interactive Whiteboards including Promethean®

This flexible USB extender is compatible with a wide range of interactive whiteboards, including the renowned Promethean® Interactive Whiteboards.

## Simplified Control at Your Fingertips

Controlling the Comprehensive CSW-302PSMC is a breeze, thanks to its versatile range of control methods. You can easily manage the device using the push buttons located on the front panel, the IR remote control, or the intuitive Web GUI control. Furthermore, the CSW-302PSMC offers an API that allows for seamless integration with third-party control systems through RS232 control or IP control. With these flexible control options, you have the freedom to conveniently select sources for each display according to your specific preferences.

## Automation & CEC Display On/Off

The CSW-302PSMC provides support for convenient signal event automation through various methods such as RS-232, IP, or CEC. This enables you to automate basic signal control and management, allowing for seamless integration with other devices and systems in your AV setup.

## A Must Have Device for Every AV Space

The CSW-302PSMC is perfectly suited for a wide range of environments, including courtrooms, classrooms, conference rooms, and any other setting where there is a need to switch audio-visual devices to two different displays. This versatile switcher ensures smooth and efficient distribution of content, enabling seamless transitions between displays and enhancing the overall audio-visual experience.

## Peace of Mind in Every Connection and Quality You Can Count On

Since 1974, Comprehensive has been a trusted manufacturer of top-notch commercial-grade solutions for AV and IT professionals. This product upholds that longstanding tradition with its use of premium materials, components, and rigorous quality control measures, guaranteeing years of reliable and hassle-free usage. Additionally, all components are supported by Comprehensive's 3 Year Warranty, providing you with the confidence that this product will continue to perform flawlessly for many years ahead.

## Features

- HDMI Output Port A supports downscaling a 4K signal to 1080p@60Hz
- USB-C port supports USB 3.0 speed, device powering 20V/3A and one gigabit Ethernet at best
- Supports pass-through of 8 channel LPCM, bitstream & HD bitstream audio formats
- Supports 4K HDR formats by HDR10, HLG and Dolby Vision
- The matrixed, dual HDMI outputs can directly feed into two flat-panel displays side-by-side
- Supports USB 3.0 with one USB type B and one USB type C interface for connection to a host PC, plus two USB type A ports for peripheral devices such as keyboard, mouse and storage extension
- Supports auto-switch functionality with a "last memory" feature for both input ports and USB ports
- Supports basic signal event automation (via RS-232, IP or CEC)
- 3x2 Matrix switching
- 2x Port USB 3.0 Hub with USB switching
- Supports HDMI 2.0b, 4Kx2K@60Hz 4:4:4, HDR 10, Dolby Vision and HDCP 2.2
- Provide up to 60W charging, USB data (USB 3.0/2.0) and 4K video transmission
- HDMI output audio can be de-embedded out via balanced analog audio port
- Supports video source auto-switching
- Smart EDID management
- Front panel buttons trigger both CEC and RS232 commands for display control
- Durable metal enclosure
- TAA Compliant
- 3 Year Warranty

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## Applications

- Meeting spaces: The CSW-302PSMC provides the flexibility to accept any presenter's device, whether it be 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.
- Video conferencing: The CSW-302PSMC provides interfacing for local and remote USB devices for soft codec conferencing, with video and USB switched together between host PCs.

## Specifications

### I/O Connections

AV Input: 2x HDMI [Type-A female HDMI]  
1x USB 3.0 [Type-C male USB]  
AV Output: 2x HDMI [Type-A female HDMI]  
1x Stereo Audio (3.5mm)

### Technical

HDMI Compliance: HDMI 2.0  
HDCP Compliance: HDCP 2.2  
Video Bandwidth: 18Gbps  
HDMI Input Resolution: Up to 4K@ 60Hz  
USB-C Input Resolution: Up to 4K@ 60Hz  
HDMI Output Resolution: Up to 4K@ 60Hz  
Color Space: RGB, YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0  
Color Depth: 8/10/12-bit  
HDR: HDR10, HDR10+  
HDMI Audio Formats: Supports Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, Dolby Digital, DTS-X, DTS-HD Master Audio, DTS 5.1, 2 - 8Ch PCM 32-192kHz 16-24 bits; 2-8Ch PCM 32-192kHz 16-24 bits  
Bi-directional Port: 2x RS-232 (4-pin Terminal Block)  
1x LAN (RJ-45)  
Control port: 2x RS-232 (4-pin Terminal Block)  
1x LAN (RJ-45)  
Baud Rate: Up to 115200 (19200 Control)

### Power & Regulatory

Power Input: DC 24V 5A  
Power Consumption: 67W  
USB-C Power Charging (PD Charging): 60w (Max)  
ESD Protection: Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)  
Regulatory: FCC, CE, RoHS Compliant  
Prop 65 Compliant: No  
TAA Compliant: Yes

### Chassis and Environmental

Construction: Metal Enclosure  
Color: Black  
Dimensions (W\*H\*D):  
213.5mm×25mm×108mm [Case Only] (8.4" x 1" x 4.3")  
213.5mm×25mm×112.5mm [All Inclusive] (8.4" x 1" x 4.4")  
Weight: 690g  
Operating Temperature: 0°C – 40°C/32°F – 104°F  
Operating Humidity: 20 – 90% RH (Non-condensing)  
Storage Temperature: -20°C – 60°C/-4°F – 140°F

### Package Contents

1x CSW-302PSMC 3x2 Presentation Switcher  
1x Shockproof Feet (Set of 4)  
1x Power Adapter (24V DC 5A)  
1x User Manual

### Other

Diagnostic Indicators: Power and Status  
UPC: 808447085921  
Product Part Number : CSW-302PSMC  
Warranty: 3 years

SWITCHERS

**CSW-302PSMC**