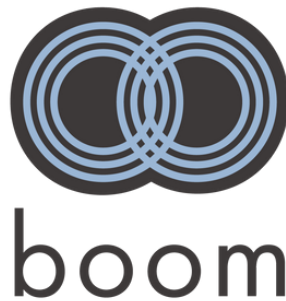


Boom ARC

the smart bridge for seamless host switching



Boom ARC is a dual-host 4K video conferencing switcher designed to simplify connectivity in modern meeting rooms. With USB-C, HDMI, and USB 3.2 Gen 1 support, it enables seamless transitions between multiple hosts and devices—all in one compact unit.

What's in the box?

1x Boom ARC
2x Mounting Ears with 4 Screws
4 x Rubber feet
1x RS232 Cable (3-pin to DB9)
1 x 5-pin phoenix connector
1x 100Watt USB-C Power Supply (20V 5A)
1 x User Manual

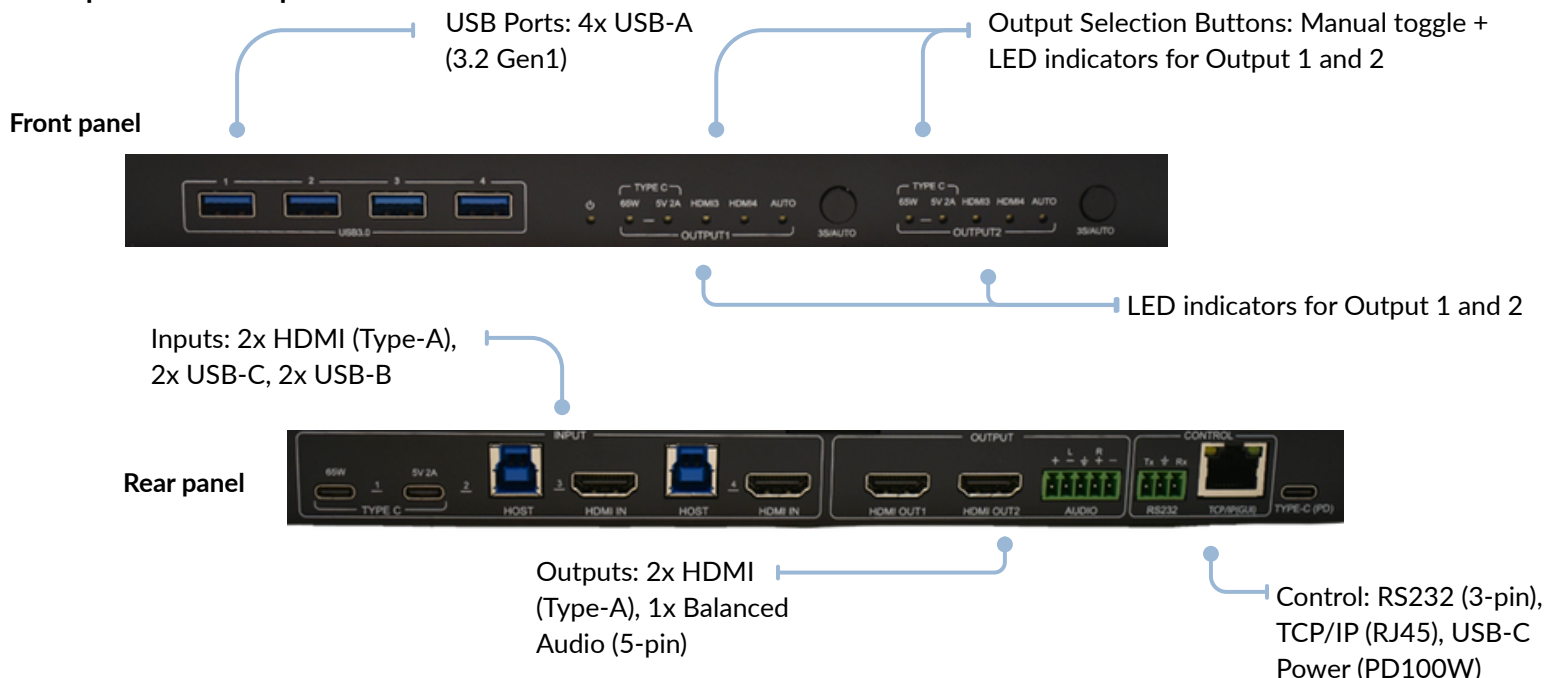
Features at a glance

- KVM Switching
- 4x2 HDMI Matrix Switching
- USB Host Auto Switching
- MST/DP1.4 Support
- EDID Management
- CEC Control
- Manual, Auto, Conference & Mirror Modes for any room setup

Let's get started

- 1: Place Boom ARC in your meeting space. Attach rubber feet or mounting ears as needed.
- 2: Connect host devices with USB-C to laptop or Host + HDMI cables to compute or other host source to the rear panel. *For USB-C, use the leftmost port for devices that need charging (65W PD).
- 3: Connect peripherals - Plug in USB cameras, speakerphones, touchscreen into front USB-A ports. **Boom ARC automatically supports KVM switching.** Connected peripherals will follow the active host (laptop or in-room PC) based on source selection.
- 4: Connect displays via HDMI cables from the ARC's outputs to your monitors or projectors.
- 5: Add control/network (optional) with RS232 cable if using third-party control. Connect ethernet cable for GUI access via web browser (GUI access details p3).
- 6: To power on, plug in the 100W USB-C power adapter. Ensure the power LED on the front panel lights up.
- 7: Select input mode using manual toggle buttons on front panel to cycle through sources, or leave on Auto Mode (default) for automatic source switching.
- 8: Ensure your USB peripherals and displays are recognized and active. Adjust display and audio settings on your connected device as needed.

Inputs & Outputs



Manual vs Auto Mode

(input selection mode - who controls the source)

Mode	What it does	When to use
Auto	Automatically switches to the most recent connected source	Ideal for BYOD or self-serve setups
Manual	Lets you cycle sources using the front panel buttons	Best for fixed setups or third-party control systems

LED Tips:

- Auto mode LED glows blue in auto mode
- Input 1-4 LEDs show the currently selected input for each output
- Power LED is solid green when device is powered

Common Scenarios

Scenario	What to do	Which Mode
Dual USB-C laptops	Plug into both USB-C ports (BYOM)	Conference Mode (auto-switch)
HDMI-only setup	Connect laptop via HDMI+USB-B (if USB needed)	Matrix or Manual
Monitor + Projector	Use both HDMI + USB-B outputs from ARC	Mirror
Control System (Crestron/Extron/etc)	Use Manual Mode via RS232 or TCP/IP	Conference Mode + Follow USB Host
Camera & speakerphone sharing	Connect USB peripherals to ARC front ports	Any mode
Zoom Room + BYOM	Connect Zoom Room PC via HDMI+USB-B and BYOM laptop via USB-C	Conference Mode Set USB switching to Follow Output

GUI Access & Mode Selection

Access the GUI

- Connect device to the same LAN as your PC (via Ethernet)
- Open browser → go to Default IP 192.168.1.239
- Login: admin / admin

Select Operating Mode

Go to the "Video Switch" tab and choose one:

Do I need to use the GUI?

No: if you're using default Auto Mode with USB-C and basic HDMI, you're good to go.

Yes: If you want to lock inputs/outputs manually, use matrix or mirror modes, set EDID/CEC, change USB host behavior

Mode	Behavior	Best For
Conference	USB-C overrides HDMI	BYOD, hybrid meetings, MTR, Zoom Room
Mirror	Same image sent to both screens	Projector + monitor or similar setups
Matrix	Route any input source to any output	Flexible rooms
Manual	Use buttons or control system only. No auto switching.	Controlled systems

*Note for TCP/IP default IP settings
IP address: 192.168.1.239
Subnet mask: 255.255.255.0

(system display mode - how displays behave)

Troubleshooting tips

Need Help? Contact Boom support or your authorized reseller

- Support: boom.co/support or support@boom.co
- For advanced config options: EDID, CEC, RS232, firmware upgrades and more, consult the complete user manual at boom.co

Additional setup options

GUI Access (via Browser)

Default IP: 192.168.1.239

Username/Password: admin/admin

Use web browser to navigate to IP and log in

Audio Setting

Choose which output (1 or 2) sends audio to the 5-pin terminal

Supports LPCM 7.1, Dolby, DTS (pass-through); PCM 2.0 for analog

CEC Control (if supported by devices)

- Source and display control via GUI
- Optional user-defined commands
- Timed CEC command triggers (up to 30 mins delay)

Network Settings

- Static IP or DHCP options
- Change IP, Subnet, Gateway via GUI

Firmware Upgrade

- Upload .fwn file via GUI under "Access Settings"
- Follow on-screen steps for upload and installation

Your paragraph text

Subheading

Modes Available:

- Conference Mode: USB-C takes priority. Ideal for BYOD. MST support for dual displays.
- Manual Mode: Full control via third-party systems
- Mirror Mode: Duplicates one source to both displays
- Matrix Mode: 4 inputs share 2 outputs. Input priority determines display assignment

Configuration Options

- EDID Management: Copy from outputs or upload custom .bin files
- Down-scaling: Enable 4K to 1080p on Output 1
- Working Status: Set standby time (0-30 mins)

USB Host Switching

- Modes: Auto, Manual, or Follow Output

RS232 Commands

- Common control protocols for integration
- Includes video/audio switching, EDID settings, CEC commands, etc.
- Full command list available in Appendix