



## ConferX 4K 8x4 Matrix Switcher with Instant Switching AC-CX-84

A perennial AVPro commercial workhorse, the ConferX series AC-CX-84 has received a technology-focused upgrade that provides new features that will please any commercial integrator. An input array of eight sources (two HDBaseT and six HDMI) can be matrixed simultaneously through two HDBaseT and two HDMI outputs to four separate displays. Sources now switch seamlessly and delay-free, with bidirectional RS-232 HDBaseT I/Os. A local diagnostics window incorporated into the GUI monitors data traffic. The AC-CX-84 supports two modes of RS-232 data: Base64 encoded and raw ASCII/HEX. New built-in scaling options include 720p, a data projector matching 1920x1200, ultra-wide 2560x1080p, and super-wide 32:9 @ 3840x1080p, complementing the latest generation of desktop monitors and conference room DVLED walls. New also is an automatic EDID detection function to eliminate compatibility guesswork.



### AC-CX-84 Connection Diagram

Seamlessly Switch Between Up To Eight 4K Sources



HDBT  
Inputs

HDBaseT Sources 1 & 2

HDMI  
Inputs

HDMI Sources 1 - 6

HDMI  
Output

Display



HDBaseT Receiver  
AC-EX70-444-RNE

Display

# PRODUCT SPECIFICATIONS

VIDEO	
Video Resolutions	Up to 4K/60 fps, 4:2:0 & 4K/ 30 fps, 4:4:4
VESA Resolutions	Up to 2560x2048 (QSXGA)
HDR Formats/Resolutions	4K/24 fps, 4:2:2, 12-bit, 4K/24 fps, 4:2:0, 10-bit HDR10 compatible
Color Space	YUV (Component), RGB (CSC: ITU-R RT.601, ITU-R BT.709, ITU-R BT.2020, DCI-P3-D65)
Chroma Subsampling	4:4:4, 4:2:2, and 4:2:0 Supported
Deep Color	Up to 16-bit (1080), Up to 12-bit (4K)
AUDIO	
Audio Formats Supported by HDMI	PCM 2.0 Ch, LPCM 5.1 & 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X, Dolby Atmos
Audio Formats Supported Extracted (TOSLINK)	PCM 2.0 Ch, LPCM 6 CH, LPCM 7 CH, Dolby Digital, Dolby Digital Plus, DTS-Master Audio
Audio Formats Supported Extracted (2CH Port)	PCM 2 CH (No Downmix)
Audio Extraction Location	Bind to INPUT, Bind to OUTPUT or MATRIX (Independent)
Audio Delay (Per Output, Extracted)	Up to 630 ms
DISTANCE	
HDBaseT In (10.2Gbps)	Up to 100 m (328 ft) with CAT 6a
HDBaseT In (18Gbps using ICT)	Up to 70 m (229 ft) with CAT 6a
HDBaseT Out (10.2Gbps)	Up to 100 m (328 ft) with CAT 6a
HDBaseT Out (18Gbps using ICT)	Up to 70 m (229 ft) with CAT 6a
HDMI In/Out (18Gbps)	Up to 8 m (26 ft)
HDMI In/Out (18Gbps with AOC)	Up to 40 m (131 ft)
OTHER	
Bandwidth HDMI	18 Gbps Uncompressed
Bandwidth HDBaseT	10.2 Gbps & 18 Gbps using ICT
HDCP	HDCP 2.3 and earlier
PoH for Transmitters and Receivers	Yes, all HDBaseT Inputs and Outputs
CONTROL	
Ports	LAN, RS-232, IR, Micro USB
LAN Web OS	YES
PORTS	
HDMI	Type A
LAN	RJ45 w/ Web Interface/ Control
Audio (Extracted Digital)	TOSLINK
Audio (Extracted Analog)	5-pin Euroblock (Balanced)
IR / RX	3.5 mm stereo / 3-pin Euroblock
RS-232	3-pin Euroblock
ENVIRONMENTAL	
Operating Temperature	23°F to 125°F (-5 to 51°C)
Storage Temperature	-4°F to 140°F (-20 to 60°C)
Humidity Range	5% to 90% RH (No Condensation)
POWER	
Power Consumption (Total)	65 watts maximum
Power Supply - Matrix	Input: AC 100-240 VAC, 50/60 Hz Output: DC 48 VDC, 2.7A
DIMENSIONS	
Dimensions (Unit Only - Height/ Depth/Width)	mm: 50.8 x 260.35 x 441.33 in: 2 x 10.25 x 17.375
Dimensions (Packaged Length/ Width/Height)	mm: 88.9 x 444.5 x 495.3 in: 3.5 x 17.5 x 19.5
Rack Units	1 RU
Weight (Unit)	7.4 lbs. (3.36 Kg)
Weight (Packaged)	9.6 lbs. (4.35 Kg)

\*Specifications are subject to change without notice. Mass & dimensions are approximate

## KEY FEATURES

- 4K Ultra-High Definition** – The AC-CX-84 supports 4K/60 (4:4:4) 18 Gbps signals using AVPro Edge's exclusive Invisible Compression Technology algorithm. Modern offices are taking advantage of the latest display technologies. As PCs default to 4K resolution, video infrastructures must be equipped to handle these commonplace high resolutions.
- Instant Switching** – Source switching is now transparently seamless, with transitions between sources visually undetectable.
- Additional Scaling Capabilities** – Scaling upgrades include 720p plus office-oriented display resolutions of 1920x1200 (WUXGA), 2560x1080p (21:9 WFHD), and 3840x1080p (32:9 DFHD). Automatic EDID detection enhances compatibility and eliminates guesswork.
- Aspect Ratio Conversion** – The AC-CX-84 can warp an image to fit wider-dimensioned monitors and DVLED video walls. Incoming aspect ratios can also be equally matched in output or letterboxed/pillarboxed to fill.
- HDBaseT bidirectional RS-232** – HDBaseT I/Os are updated to support bidirectional RS-232 data transmission in Base64 or raw ASCII/HEX. A Local Diagnostics GUI window displays baud rate, RS-232 mode type, and data information.
- 5-volt Toggle** – High/Low toggle that manufactures an emulated Hot Plug Detect event for disconnection from codecs, enabling worry-free source switching with conferencing devices.
- HDMI Stream Control** – Stream Control disables scaling when no active video is present at a source output.
- Mirror Mode** – Mirrors the source output of adjacent HDBaseT and HDMI outputs for a same-source display via the two technology types.
- HDBaseT Interoperability** – The AC-CX-84 may be used with all standard HDBaseT equipment.
- External HDBaseT Device Power** – The AC-CX-84 can power connected HDBaseT transmitters and receivers, eliminating separate device power PSUs.

