

Edge One



CONVERGED
VIDEO & AUDIO STAGEBOX



CONVENIENT
CONVERGED
CONFIGURABLE

Edge One

INTRODUCTION



Edge One — Audio and Video become One

In broadcast and Pro AV, mobility and nimbleness are key. One area where these industries already firmly overlap is stageboxes that provide audio or video connectivity for opera houses, theaters, houses of worship, sports and multipurpose venues, parliaments, corporate buildings, radio, cruise ships, and, obviously, broadcast.

Multi-format audio stageboxes supporting analog, digital, MADI and AoIP simultaneously have been around for a while. They tend to take up a lot of space and come with more connectors than most operators will ever need.

Typically, day-to-day applications require a handful of inputs and perhaps even fewer outputs. Placed close to where they are needed, compact stageboxes help operators avoid complex cable runs on stage, in studios, conference rooms, editing suites, etc.

Compact connection boxes for table-top or under-table installation, finally, usually only accommodate a specific audio or video format. Using two or three of them on the same desk quickly becomes messy.

Something similar applies to video gateways. While users are free to specify the number of SDI inputs and outputs they actually need, even the smallest connectivity package may already be physical or functional overkill.

And what about operators who need audio and video connectivity in places where space is at a premium? So far, that meant installing at least one audio and one video stagebox.

With Edge One, Lawo completes the convergence of video and audio that was set in motion with Lawo's converged HOME Apps audio and video processing platform. The possibility to run audio and video processing side by side on the same server was received to great acclaim.

This next bold step—broadcast-grade audio and video connectivity in a single, compact stagebox for any Pro AV and broadcast application—is a sensation.

As a ST2110-native unit, Edge One is one of a kind: it provides analog, MADI and USB audio, video connectivity (SDI up to UHD HDR) on SDI and HDMI, a 32 x 16 audio mixer with audio DSP, video frame sync, JPEG XS encoding and decoding, and a lot more. Either in part or in full—that's entirely up to you. And you are welcome to change your mind at any stage.

It also includes power over Ethernet and the possibility to use it locally without IP if that doesn't add anything. Welcome to a new breed of video and audio connectivity, with countless possibilities to make your workflows more efficient.

Yours compactly, Edge One.

PROUDLY SUPPORTING:



Edge One

TYPICAL USE CASES



Studio Floors

Travel light from studio to studio, and beyond. Imagine a TV show involving two or three presenters, a self-op TV news show with one or two anchors, or the coverage of political developments at the parliamentary precinct.

Edge One offers all required connectivity and control right out of the box: audio in and out, SDI in, HDMI or SDI out, MADI (with sample rate conversion) towards a PA console, and streaming IP essences to the network.

- HIGHLIGHTS**
- Audio and video in the same box
 - SDI, HDMI, MADI and analog audio
 - Compact form factor
 - Internal test signals, idents, video frame sync, test pattern generator, text insertion, etc.

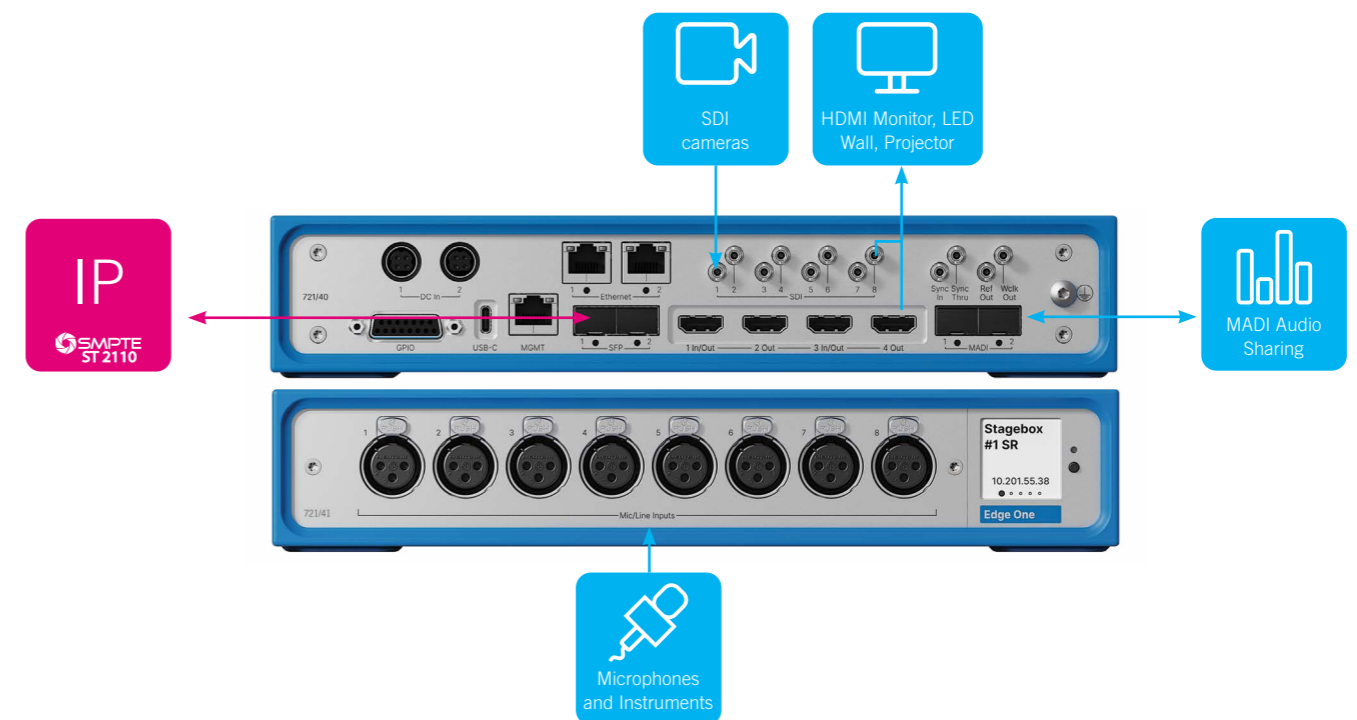


Live Event Venues

In theaters, opera houses, houses of worship, sports venues and corporate installations, the equipment for audio and video ingest cannot be discreet enough. Simply build a distributed network of Edge One units placed close to the sources and destinations—audio and video in any combination.

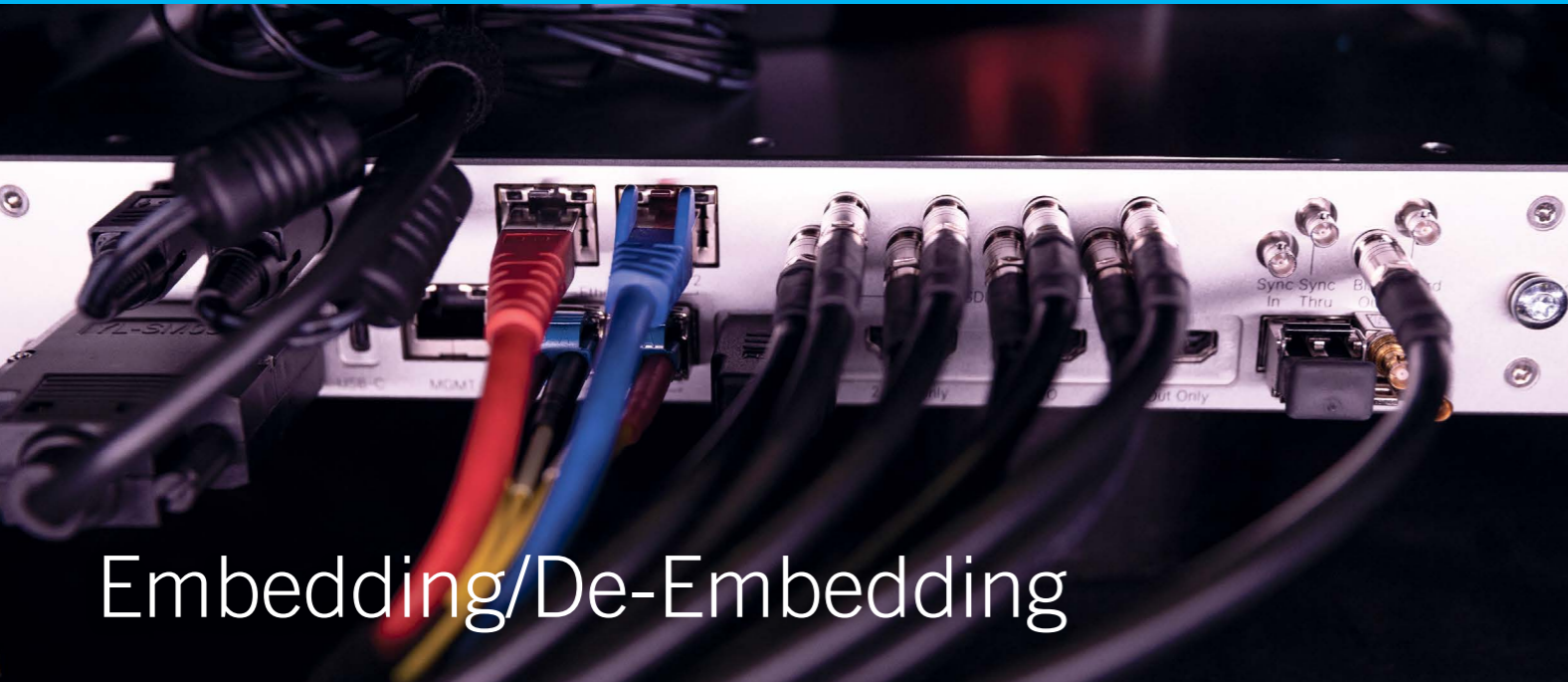
Naturally, the microphone preamps can be natively controlled from an mc² console.

- HIGHLIGHTS**
- Audio and video in the same box
 - SDI, HDMI, MADI, and analog audio
 - Compact form factor
 - Pre-amp control from Lawo audio consoles



Edge One

TYPICAL USE CASES



Embedding/De-Embedding

The magic is back and more magical than ever! Need local audio shuffling in a compact OB van—and nothing else? Meet Edge One. It receives SDI signals, allows operators to de-embed the audio channels, shuffle them, re-embed the result and send the combined SDI output signal to the van's satellite uplink. MADI in/out with sample rate conversion is also on board. De-embedded audio signals can be transmitted to your IP network (if available) using natively supported ST2110-30.

HIGHLIGHTS

- SDI embedding and de-embedding
- Audio shuffling
- Video reference I/O
- MADI I/O with sample rate conversion where necessary
- Dedicated RJ45 management port



Post-Production Suites

Meet an I/O box with all video and audio connectors you'll ever need in a post-production environment. Complete with 4K HDMI outputs for a reference monitor and multiviewer screen, microphone inputs for voice-over booths, audio outputs for monitor speakers, and GPI I/O for red-light signaling. Plus class-compliant USB-C audio, just in case.

HIGHLIGHTS

- All-in-one I/O solution
- 4K HDMI outputs available to connect reference monitors and/or multiviewer screens
- Low-latency audio monitoring and processing
- USB-C audio for additional ad-hoc connections
- Optional under-table mount



Edge One

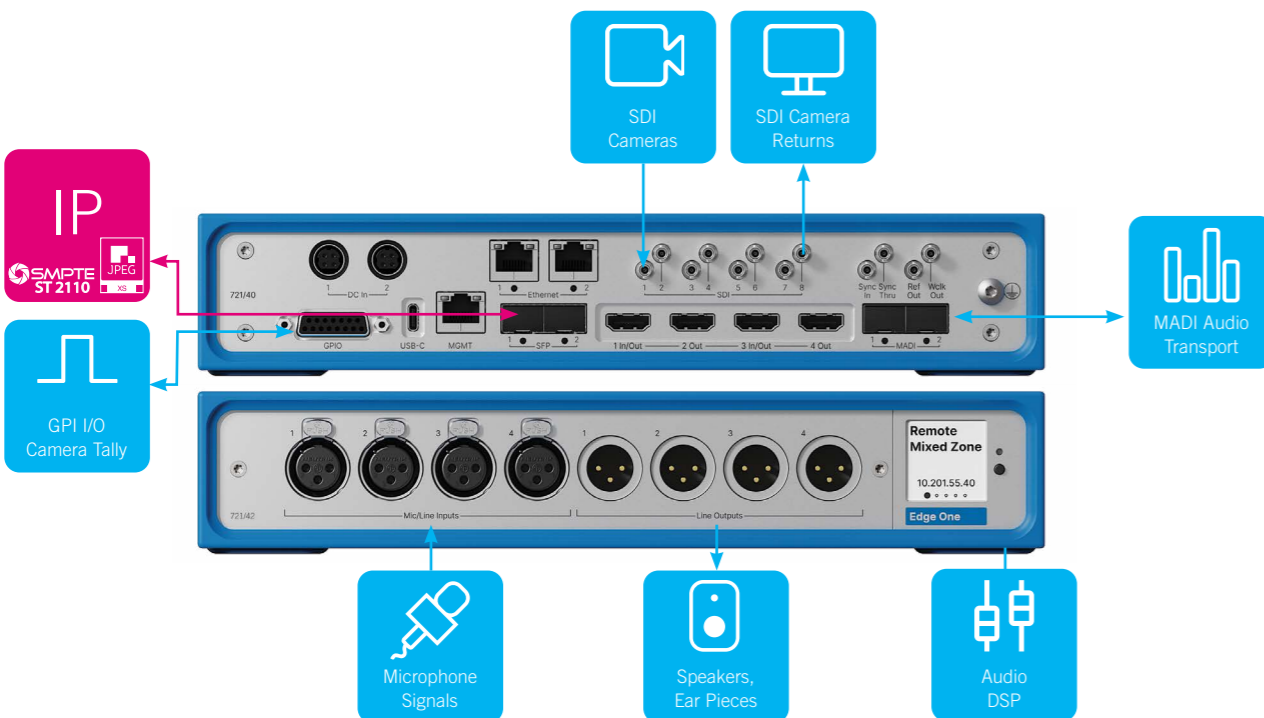
TYPICAL USE CASES



Remote Production

So far, a remote production setup used to involve one video gateway and a separate audio stagebox. Edge One goes one better by combining both while taking up only 1U of flightcase rackspace. This stagebox is SMPTE ST2110 compatible, provides JPEG XS compression (encoding and decoding), and integrates seamlessly with the broadcast facility.

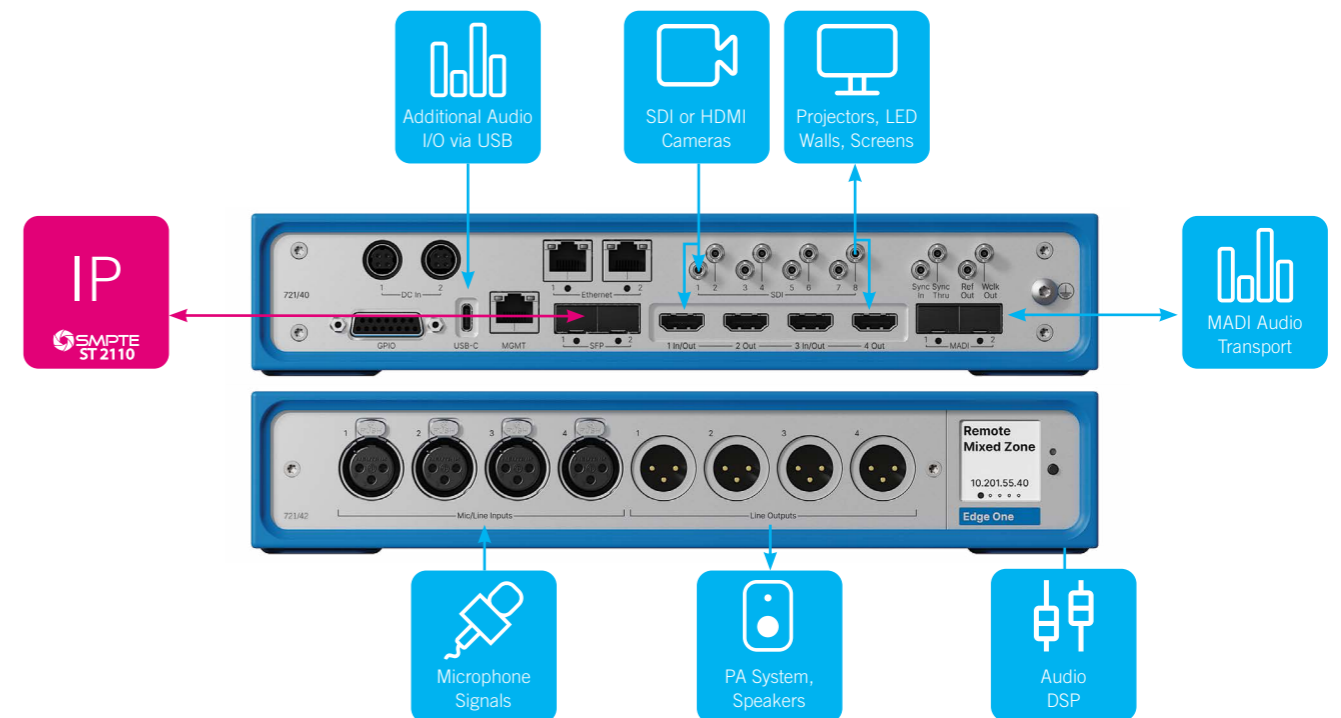
- HIGHLIGHTS**
- Up to 8x SDI camera inputs
 - JPEG XS compression
 - MADI I/O including sample rate conversion
 - Analog audio for camera communication (support for 4-wire)
 - GPI I/O for camera tally
 - Audio control from an mc² console anywhere in the world
 - Low-latency ear-piece audio mixing



Pro AV Installs

A campus-wide IT network with wallboxes in all strategic locations provides maximum flexibility regarding the choice of locations and signal destinations. Edge One's connectivity accommodates both site-specific and global townhalls, video conferencing, official announcements to stakeholders, presentations, and more. Support for HDMI, which also includes signal input, is mandatory in the AV sphere and beyond.

- HIGHLIGHTS**
- All-in-one audio & video stagebox with flexible relocation
 - Up to 8x SDI camera inputs / up to 2x HDMI inputs
 - Up to 4x HDMI outputs for connecting monitor screens, projectors or LED walls
 - Analog audio inputs and outputs, plus MADI and USB-C I/O
 - Built-in DSP for local audio processing



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TYPICAL USE CASES

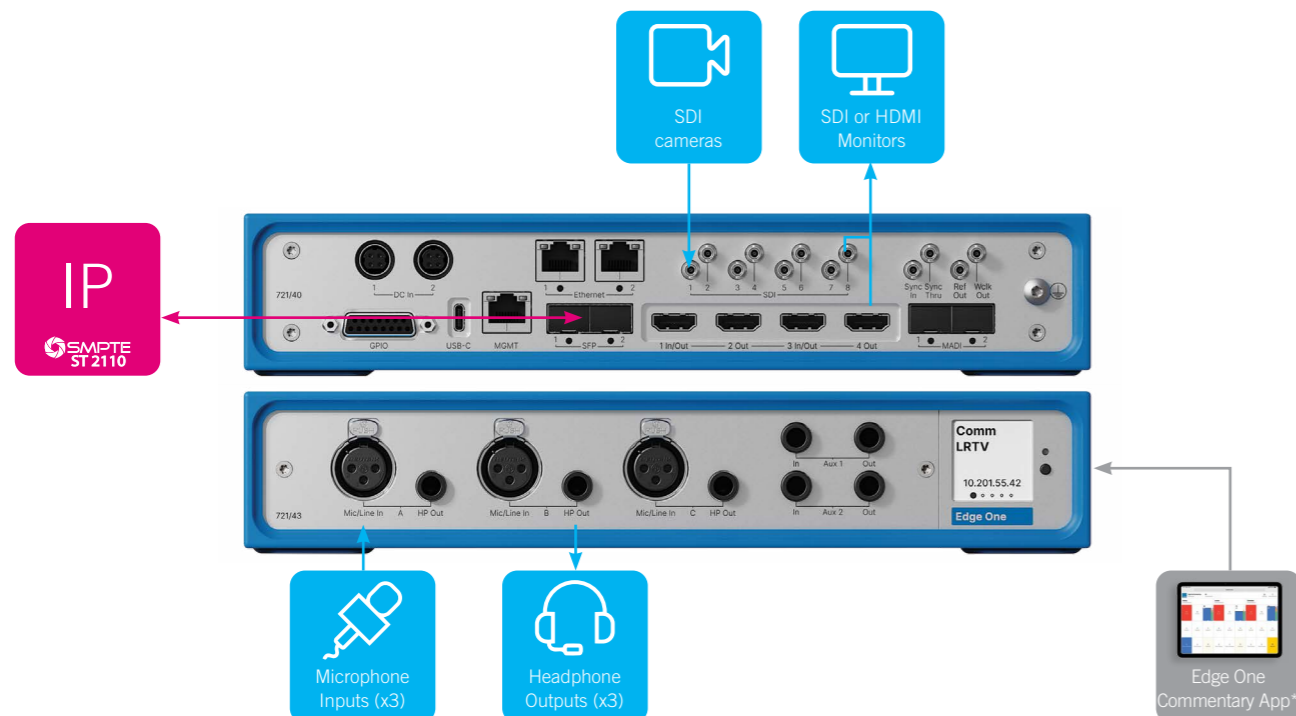


Commentary Positions

The one-stop commentary box! Edge One is a contribution powerhouse for in-venue commentary. Accommodating up to three commentators, each with their own microphone input and headphone output, it can easily be controlled locally via a tablet or a configurable button panel. Signal transport between Edge One and the OB truck or broadcast hub is handled via SMPTE ST2110.

HIGHLIGHTS

- Dedicated audio module for commentary I/O
- Up to 3 commentators with low-latency, on-site headphone mixes
- 2x Aux In and 2x Aux Out (Line level)
- Edge One Commentary app* (powered by Lawo Workspaces)



* Requires HOME Apps

Edge One at a Glance

Edge One shows how Lawo does its part towards achieving more with less. Despite its compact dimensions, Edge One meets, and often exceeds, the expectations of demanding broadcast and AV professionals. Below please find the most important highlights.

Keep in mind that all audio and video functionality can live in the same box—or be added subsequently. This way, users can start out with only audio or only video, and then top up Edge One's feature set using Lawo's perpetual licenses, Lawo FLEX subscriptions, or a mix of both.

(Adding analog audio connectivity to a video-only model also requires the installation of an Audio Interface Module.)

Audio

- Audio quality right on a par with Lawo's "big" stageboxes
- Sample rate conversion (SRC) for MADI connectors as standard
- Built-in DSP section for low-latency local mixing
- AutoMix
- Class-compliant USB-C audio with 4 input and 4 output channels
- Headphone outputs, plus two Aux In/Out pairs on the Commentary module
- Seamless integration with HOME-native mixing consoles like mc², diamond and crystal

Video

- Supports up to 8x 3G or 2x 12G inputs or outputs
- Selectable SDI or HDMI path per signal
- Supported resolutions: SD (SDI only), HD, 3G and UHD (SDR and HDR)
- 4K HDMI outputs for monitor screens, multiviewer walls, and projectors
- JPEG XS encoding and decoding
- Video frame sync
- 3G video transmission via RJ45 while powered over Ethernet (PoE++)

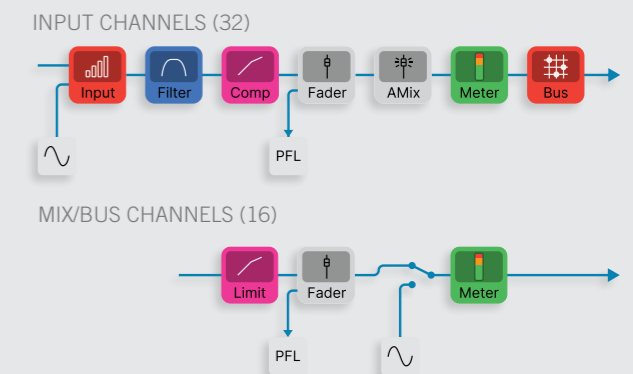
General

- Supported network bandwidths: RJ45: 2x 1, 2.5 or 5 GbE SFP: 2x 1, 10 or 25 GbE
- PTP, video reference and Wordclock synchronization
- Completely integrated into the HOME platform
- Central or decentralized control via the VSM workflow control system
- Available with bumpers for quick pop-up assignments
- Optional rack ears for flightcase or rack installation
- Convenient under-table mount for editing and post-production galleries, wall mounting, etc.

AUDIO DSP

Edge One's onboard audio processing blocks are derived from the acclaimed mc² DSP. Given the specific purpose of this 32 in/16 out mixer, there are fewer processing blocks with a limited number of parameters. The block order is fixed for both input and mix channels. All channels offer the same processing capabilities.

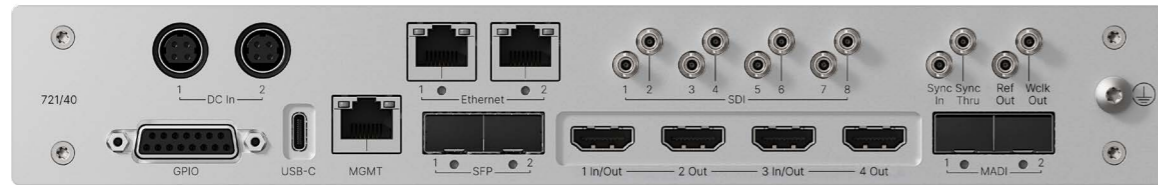
Channel summing is completely non-blocking for all cross-points (full-matrix summing). Channels can be turned into stereo pairs with full Pan/Balance control as part of the summing. Edge One even offers AutoMix.



One Box. All Interfaces.

Edge One provides fixed connectivity for network, video, and more. The opposite side can be fitted with one of the field-exchangeable audio interface modules, allowing you to tailor the device to specific applications.

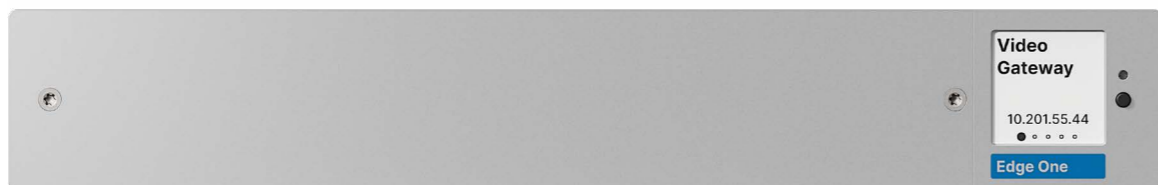
Side A: Fixed Connectivity



- 8x SDI In/Out
- 4x HDMI (2x In/Out, 2x Out)
- 2x MADI (SFP)
- USB-C (class-compliant audio interface)
- GPIO (2x GPI / 4x GPO)
- Sync In/Thru, Video Reference output, Wordclock output
- Management port (RJ45)
- 2x RJ45 streaming ports (1, 2.5, 5 GbE incl. PoE++)
- 2x SFP/SFP28 streaming ports (1, 10, 25 GbE)
- 2x Kyron 12V DC input

Note: Depending on the selected license package, not all connectors may be active.

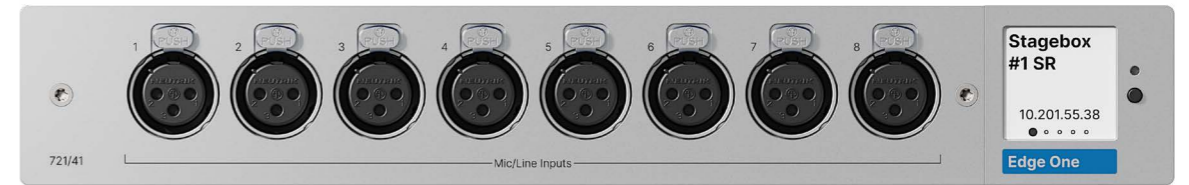
Side B: Blank Panel



The video-only version of Edge One comes with a Blank Panel as standard.

- Included audio functions: Embedding, De-Embedding, Audio Shuffling
- Optional audio functions: MADI I/O, Audio DSP

8x Mic/Line In Interface Module



Edge One, equipped with the 8x Mic/Line Interface Module, provides dedicated connectivity for ingesting analog microphone and/or line-level sources, for distribution as SMPTE ST2110 audio streams and for sharing via MADI.

- 8x Mic/Line inputs (XLR)

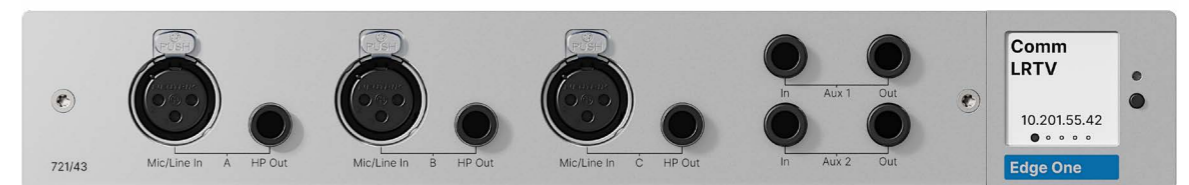
4x In/4x Out Interface Module



Edge One, equipped with the 4x In / 4x Out Interface Module, enables users to ingest four analog audio sources and output analog audio to four destinations such as PA systems or monitor loudspeakers.

- 4x Mic/Line inputs (XLR)
- 4x Line outputs (XLR)

Commentary Interface Module



Edge One, equipped with the Commentary Interface Module, provides dedicated connectivity for commentary applications, accommodating up to three independent commentator positions.

- 3x Mic/Line inputs (XLR)
- 3x headphone outputs (TRS)
- 2x Line inputs (TRS)
- 2x Line outputs (TRS)



Packages and Licensable Flexibility

Edge One is available in three clearly defined packages. Like other Lawo solutions, it also supports software-licensable add-on functionality. Below please find the contents of each package and the options that can be added using perpetual licenses or Lawo FLEX subscriptions. Or a combination of both.

Lawo FLEX subscriptions enable dynamic, function-agnostic licensing, allowing functionality to be temporarily added to or removed from Edge One units. This lets users free up credits for other Lawo solutions (such as HOME Apps or .edge features) or allocate required functionality to another Edge One unit at a different location.

Standard Packages

Audio Package

- Audio interface module
- Audio MADI I/O
- Audio DSP
- GPIOs
- Copper, fiber and multi-gigabit streaming ports

Video Package

- 8x video inputs or outputs (SDI and/or HDMI)*
- GPIOs
- Copper, fiber and multi-gigabit streaming ports

AV Package

- Audio interface module
- Audio MADI I/O
- Audio DSP
- 8x video inputs or outputs (SDI and/or HDMI)*
- GPIOs
- Copper, fiber and multi-gigabit streaming ports

Available Add-Ons

Add-ons for Audio Package

- + Up to 8 single video signal instances (in or out)
- + Up to 8 video frame syncs
- + Up to 8 video JPEG XS en-/decoding instances**
- + Edge One Commentary app

Add-ons for Video Package

- + Audio interface module
- + Audio MADI I/O
- + Audio DSP
- + Up to 8 video frame syncs
- + Up to 8 video JPEG XS en-/decoding instances**
- + Edge One Commentary app

Add-ons for AV Package

- + Up to 8 video JPEG XS en-/decoding instances**
- + Edge One Commentary App

(*) The total number of video in and out instances for all SDI and HDMI connectors is 8, in/out functionality for SDI connectors switchable in groups of 4, max. 2 HDMI inputs, max. 4 HDMI outputs

(**) JPEG XS can only be licensed on a perpetual basis.

Specifications

INTERFACES

AUDIO:

- 1x USB Type-C port: Console maintenance, class-compliant USB audio interface (4x In, 4x Out)
- 2x MADI SFP ports: MM, SM or electrical BNC SFPs supported, incl. sample rate conversion (SRC)

VIDEO:

- 8x micro HD-BNC connectors: 8 bi-directional (software-programmable in groups of 4)
- 4x HDMI connectors: 2 outputs (fixed), 2 bi-directional (software-programmable)
- Synchronization: 4x micro HD-BNC sync connectors
 - 1x Reference input
 - 1x Loop-through
 - 1x Reference output
 - 1x Wordclock output

MEDIA:

- 2x RJ45 Media: 1, 2.5, 5 GbE, incl. PoE++
- 2x SFP/SFP28 Media: 1, 10, 25 GbE, active optical cable (AOC), short- (SR) and long-range (LR) optical transceiver modules supported

MISCELLANEOUS:

- General-Purpose Interface on DB-15:
 - 4x GPI Out, 2x GPI In, incl. ground and Aux voltage

AUDIO INTERFACE MODULES

8x MIC/LINE IN MODULE:

- 8x switchable Mic/Line inputs on XLR, 20dB PAD, +48V phantom power
 - Remotely controllable gain range: 79dB
 - Switchable low-cut filter: 40/80/140Hz
- Support for balanced and unbalanced sources
- Dynamic Range: 119dB(A) at max. input level of +24dBu

4x IN/4x OUT MODULE:

- 4x switchable Mic/Line inputs on XLR, 20dB PAD and +48V phantom power
 - Remotely controllable gain range: 79dB
 - Switchable low-cut filter: 40/80/140Hz
- Support for balanced and unbalanced sources
- Dynamic Range: 119dB(A) at max. input level of +24dBu
- 4x Line outputs on XLR
 - Floating balanced design for balanced and unbalanced destinations
 - Maximum output level: +24dBu

COMMENTARY MODULE:

- 3x switchable Mic/Line inputs on XLR, 20dB PAD and +48V phantom power
 - Remotely controllable gain range: 79dB
 - Switchable low-cut filter: 40/80/140Hz
- Support for balanced and unbalanced sources through floating analog-stage design
- Dynamic Range: 119dB(A) at maximum input level of +24dBu
- 3x Headphone outputs on TRS
- 2x Line inputs on TRS
- 2x Line outputs on TRS
- Floating balanced design for balanced and unbalanced destinations
- Maximum output level: +24dBu

MANAGEMENT AND MONITORING

- Out-of-band control via dedicated RJ45 MGMT interface
- In-band control via Media interfaces
- API Protocols: HOME, NMOS IS-04/05
- Native integration with VSM, mc², crystal and diamond via HOME API
- Indicators: Status LED, Paperlike E-Ink display
- Function Button: Display navigation

REFERENCE/SYNCHRONIZATION

- Video Reference Standard: SMPTE ST125
- IEEE1588 (PTP v2): Lead or Follower operation
- Audio sample rate: 48kHz

SUPPORTED IP STANDARDS

SMPTE ST2110 Professional Media Over Managed IP Networks:

- ST2110-10: System Timing and Definitions
- ST2110-20: Uncompressed Active Video
- ST2110-21: Traffic Shaping and Delivery Timing for Video
- ST2110-22: Constant Bit-Rate Compressed Video
- ST2110-30: PCM Digital Audio (Levels A, B and C)
- ST2110-31: AES3 Transparent Transport (Levels A, B and C)
- ST2110-40: SMPTE ST291-1 Ancillary Data
- SMPTE ST2022-7: Seamless Protection Switching of RTP datagrams (Class A and B)

SUPPORTED VIDEO STANDARDS

- SD (SDI only): SMPTE ST259M-C (270Mbps)
- HD: SMPTE ST292 (1.485, 1.485/1.001Gbps)
- 3G: SMPTE ST424 (2.970, 2.970/1.001Gbps)
- 12G: SMPTE ST2082-1:2015

SUPPORTED VIDEO FORMATS

- SD (SDI only): 525i59.94 (NTSC), 625i50 (PAL)
- HD: 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60, 1080i23.98 (PsF), 1080i24 (PsF), 1080i50, 1080i59.94, 1080i60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30
- 3G: 1080p23.98, 1080i25 (PsF), 1080i29.97 (PsF), 1080i30 (PsF), 1080p50, 1080p59.94, 1080p60
- 12G: 2160p50, 2160p59.94 and 2160p60

FRAME MECHANICS AND POWER

- Dimensions (H x W x D):
 - 44mm (1RU) x 280mm (11") x 360mm (14.2")
- Weight (incl. audio module): 2.5kg (5.5lb)
- Power: 2x Kycon 12V DC, power over Ethernet (PoE++)

Also available with optional 19" rack ears



Optional bracket for under-desk and wall mounting



Edge One

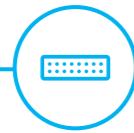
LAWO'S PORTFOLIO



MANAGEMENT & CONTROL

HOME
IP Infrastructure Management Platform

VSM
IP Broadcast & Workflow Control System



AUDIO VIDEO I/O

Edge One
Converged Video & Audio Stagebox

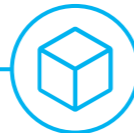
.edge
Hyper-Density SDI/IP Conversion/Routing Platform

A_line
WAN-capable Audio-to-IP Interfaces

Power Core^{GATEWAY}
Modular IP Audio I/O Node for mc² Consoles

Power Core^{RP}
IP Audio I/O & DSP Node for Remote Production

Lawo VSC
Virtual Audio Device and App for macOS



PROCESSING

HOME Apps
Server-based Processing Platform

HOME UDX
UDX Converter with HDR Processing

HOME Timecode Generator
Up to 8x Timecode as ST2110-40

HOME Test Pattern Generator
Server-based Test Pattern Generator

HOME Graphic Inserter
2D/3D HTML5 Graphic Inserter

HOME Power Core
Virtual DSP Mixing Engine for Broadcast

A_UHD Core
Ultra-high Density Network DSP Engine

HOME Multiviewer
Server-based Flexible Multiviewer

HOME Color Corrector
Color Corrector with HDR Processing

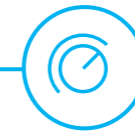
HOME Delay
Delays Incoming/Outgoing Essences

HOME Stream Transcoder
ST2110/NDI/SRT/JPEGxs Transcoding

HOME mc² DSP
Server-based DSP Engine

HOME Audio Shuffler
App-Based Matrix for Organizing Audio Channels

Power Core
Software-Defined Mix Engine & I/O Device



HUMAN INTERFACES

mc²36/36xp
Compact Production Console

crystal
Versatile Broadcast Console

vsmLPB Series /vsmPANEL
Hardware Control Panels

HOME
Unified Infrastructure Management

crystal Clear
Virtual On-Air Control Interface

HOME Commentary
Stand-alone commentary solution for laptops and mobile devices

mc²56
Audio Production Console

diamond
Modular Broadcast Console

vsmPANEL
Customizable Software Control Panel

mxGUI / VisTool
Audio GUI Software

HOME Video Monitor
Delivers low-latency video and audio to any location, on any device

HOME mc² crystal Controller
Display and virtual control companion for a crystal console in Controller mode

mc²96
Grand Production Console

HOME mc² crystal Controller
Display and virtual control companion for a crystal console in Controller mode

HOME mc² crystal Controller
Display and virtual control companion for a crystal console in Controller mode

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PROFESSIONAL SERVICES

CONSULTING
DEPLOYMENT TRAINING SUPPORT

Consulting
Experienced Consulting for IP Media Infrastructure Workflows & Systems

CONSULTING
DEPLOYMENT TRAINING SUPPORT

Deployment
Professional Deployment Services for IP Media Infrastructure Solutions

CONSULTING
DEPLOYMENT TRAINING SUPPORT

Training
Remote & On-site Training and Launch Support Services

CONSULTING
DEPLOYMENT TRAINING SUPPORT

Support
Qualified 24/7 support services to maximize uptime

Lawo Academy
Enhance your skills with free and paid courses. Scan here:



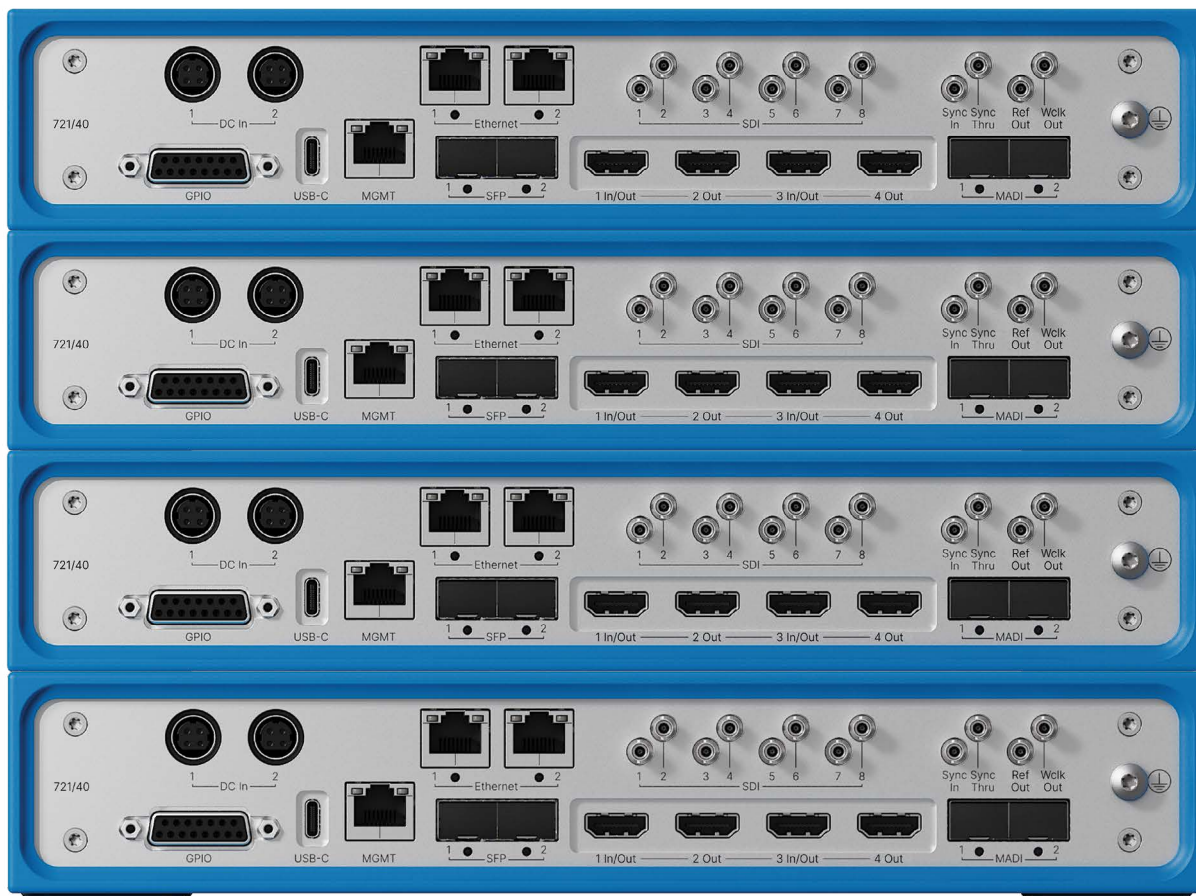
SEE LAWO'S YOUTUBE CHANNEL FOR INSPIRING CUSTOMER SOLUTIONS.

ABOUT LAWO

Lawo is a global technology partner with a long history of delivering innovative solutions for live media production workflows. With a unified approach that combines workflow management and control, physical I/O, processing, and human interfaces, Lawo creates optimized solutions for productions including television broadcast and on-air radio, performing arts, houses of worship, and professional AV. Customer value is driven through simplicity, agility, technical and commercial flexibility, and through its team of experts who are passionate about enabling the creation of world-class content. Lawo products are manufactured to highest quality standards in Rastatt, Germany. For additional information, visit www.lawo.com

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