

ATEM 4 M/E Constellation IP



ATEM 4 M/E Constellation IP is an advanced live production switcher with a powerful design that's fully SMPTE-2110 native and uses high speed 100G Ethernet connections! This makes it easy to add a converter for a mix of traditional 12G-SDI or modern SMPTE-2110 IP video connections. Plus, all IP video connections are fully redundant and SMPTE-2022-7 compliant. You get 32 inputs and 28 outputs, 16 ATEM Advanced Keyers, 4 multi-views and 2 SuperSource processors for a total of 12 DVEs.

\$8,795

Connections

100G 2110 IP Networks

8 x 100G QSFP28 connections. Supports ST 2022-7 redundant delivery of IP streams over two 2110 networks.

Senders and Receivers per 100G Pair
8 x Ultra HD

10G Control Network

2 x 10G RJ45 Ethernet for NMOS control plus loading media, saving and loading presets.

Reference Network

2 x RJ45 Ethernet for 2110 PTP clock.

1G Management

1 x RJ45 Ethernet. Supports 10/100/1000 BASE-T. For ATEM Setup utility and software updates.

Analog Audio Outputs

1 x 6.35 mm headphone jack.

Total Video Inputs

32

Total Video Outputs

28

Total Aux Outputs

24

Total Audio Outputs

1 x 6.35 mm headphone jack.
1 x Speaker

Frame Rate and Format Converters

On all 32 inputs

Extra Audio Outputs

1 x 6.35 mm headphone jack. (the audio will be the mix of PGM plus engineering, production and side tone.)
1 x built-in speaker.

SDI Program Outputs

Any of the 24 outputs.

SDI Preview Outputs

Any of the 24 outputs.

Webcam Output

Rear USB-C supports 720p or 1080p at PGM frame.

Control Panel Connection

2 x 10G RJ45 Ethernet for panel connection, NMOS control plus loading media, saving and loading presets.

Internal Timecode Generator

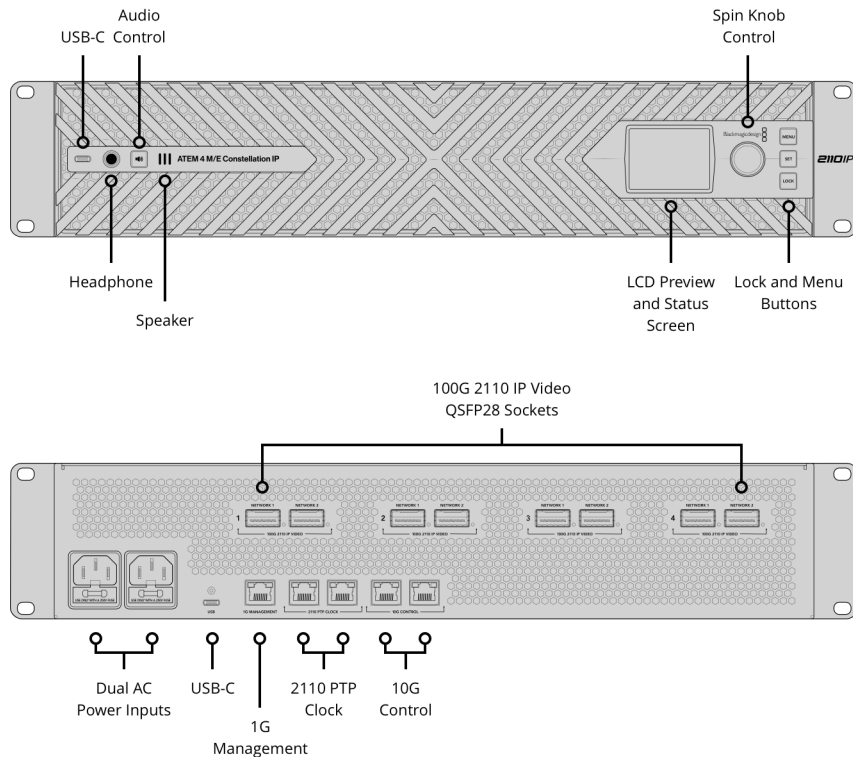
Yes

Computer Interface

Rear USB-C supports USB 3.0 for external USB audio (Fairlight Live), webcam out, ATEM Setup utility and software updates.
Front USB-C supports USB 2.0 for updates and setup only.

Power

2 x IEC C14 power inputs.



Standards

HD Video Standards

720p50, 720p59.94, 720p60
1080i50, 1080i59.94, 1080i60
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p47.95,
1080p48, 1080p50, 1080p59.94,
1080p60

Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30, 2160p50,
2160p59.94, 2160p60.

Video Sampling

4:2:2

Color Precision

10-bit.

SMPTE Compliance

SMPTE 2110-20, SMPTE 2110-21,
SMPTE 2110-30, SMPTE 2110-40,
SMPTE 2022-7

IP Video Compliance

SMPTE 2110-20

(Uncompressed Video)

IGMP v2

SMPTE 2110-21 (Traffic Shaping)

Sender: Narrow

Receiver: Narrow, Wide Synchronous,
Asynchronous

SMPTE 2110-30 (PCM)

Audio Conformance level: Level C

SMPTE 2110-40 (Ancillary Data)

Full access to entire SMPTE ancillary
data stream. Includes RP 188/SMPTE
12M-2, closed captioning and HDR
static metadata.

Codec

Blackmagic IP10 codec optional for
2160p59.94 and 2160p60 as 2110 IP
video.

Precision Time Protocol

IEEE 1588-2008 (PTP v2)

ST 2059-1

ST 2059-2

NMOS IS-04 Discovery and

Registration

v1.3.2

Peer-to-peer via mDNS/DNS-SD

NMOS IS-05 Connection Management v1.1.2	NMOS BCP-002-01 Natural Grouping	NMOS BCP-004-01 Receiver capabilities
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Product Specifics

Upstream Keyers 16	Linear/Luma Keyers 20	Control 2 x 10G RJ45 Ethernet for panel connection, NMOS control plus loading media, saving and loading presets.
Downstream Keyers 4	Transition Keyer (Stinger/DVE) 4 Stinger, 4 DVE.	
Advanced Chroma Keyers 16	Total Number of Layers 28	Routable Windows 64
SuperSource 2	Pattern Generators 21	Tally Red for program and green for preview indication.
Talkback Support Yes	Color Generators 2	Windows Source Labels Yes
Mix Minus Support Yes	DVEs 4	

Multi View Monitoring

Multi View Monitoring 4 x 16 Multi View pattern options for up to 64 total views.	Multi View Video Standard Select HD or Ultra HD.
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Media Player

Media Players 4	Media Player Clip Length in 720 HD 3200 frames	Media Pool Video File Format TGA Sequence.
Channels Fill and key for each media player.	Media Player Clip Length in 1080 HD 1600 frames	Media Pool Audio File Format WAV, MP3 and AIFF.
Media Pool Still Image Capacity 64	Media Player Clip Length in Ultra HD 400 frames	
Media Pool Clip Capacity 4	Media Pool Still Image Format PNG, TGA, BMP, GIF, JPEG and TIFF.	

Display

Interface

Minimum monitor resolution of 1366 x 768.

Front panel

Built in HD LCD monitor for video, front USB-C connection for updates, setup and control, front speaker and headphone connection, menu control knob and set button, front panel lock button.

Processing

Processing Delay

TBC

Video.

Level and Peak metering.

Down Conversion

None

Audio Mixer

68 Channel mixer.

Master gain control.

6 band parametric EQ, Dynamics including Expander, Gate, Compressor and Limiter.

Selectable On/Off/Audio-Follow-

Control

Front panel

Built in HD LCD monitor for video, front USB-C connection for updates, setup and control, front speaker and headphone connection, menu control knob and set button, front panel lock button.

Software

Control Panel Included

ATEM Software Control Panel included free for macOS 14.0 Sonoma, macOS 15.0 Sequoia or later and Windows 10 and 11.

Software Updates

Using USB or Ethernet connection directly connected to Mac or Windows computers. Includes ATEM Setup Utility.

Configuration

Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Setup Utility connected via USB-C to chassis.

Operating Systems



Mac 15.0 Sequoia,
Mac 26.0 Tahoe or later.



Windows 10 and 11.
Windows 11 for ARM

Power Requirements

Power Supply

2 x 100 - 240V AC 50/60Hz internal
power supplies.

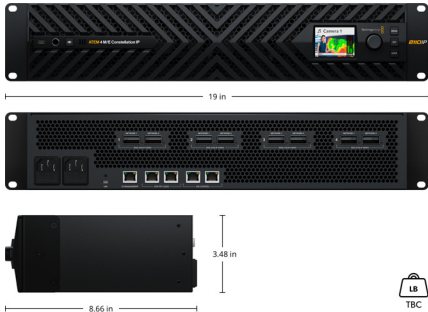
Power Inputs

2 x IEC C14 sockets.

Power Usage

TBC

Physical Specifications



Physical Installation

Physical Installation

2 rack units.

Environmental Specifications

Operating Temperature

0° to 40° C (32° to 104° F)

Storage Temperature

-20° to 60° C (-4° to 140° F)

Relative Humidity

0% to 90% non-condensing

What's Included

ATEM 4 M/E Constellation IP
Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

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