

AWS Elemental Link

1x 1GbE RJ45 PoE, 1x 3G-SDI, 1x HDMI



AWS Elemental Link is an HEVC encoding device that connects a live video source, like a camera or video production equipment, to AWS Elemental MediaLive. Link offers a configuration-free, cost-efficient way to securely and reliably transfer video to MediaLive for delivery to viewers. To use the device, you simply connect it to power, Ethernet, and a video source. Then you can control and monitor your AWS Elemental Link device from anywhere you have access to the AWS Management Console. AWS Elemental Link improves the quality and reliability of your live video streams while reducing the cost and complexity of equipment that you need to operate on-premises.



BENEFITS

Fast and easy setup

AWS Elemental Link is shipped fully configured for your AWS Account. Simply connect the device to power, an IP network, and a video source (3G-SDI or HDMI). Once connected, Link automatically starts sending thumbnail images and is available as a source for MediaLive in the AWS Management Console, ready for live streaming.

Small and portable

Link is a small, portable device with minimal power and cooling requirements. Weighing less than 1 lb (450 g), Link can travel wherever you need to connect live video to the cloud. Link is silent, and fanless operation and minimal heat generation make the device practical to use in low-noise environments like studios.

Manage and monitor devices remotely

With AWS Elemental Link, you control the entire live event workflow using the AWS Management Console. Because you can manage and monitor multiple devices anywhere in the world from a central point of control, you don't need to send technical operators to event sites in order to set up and configure your live streams.

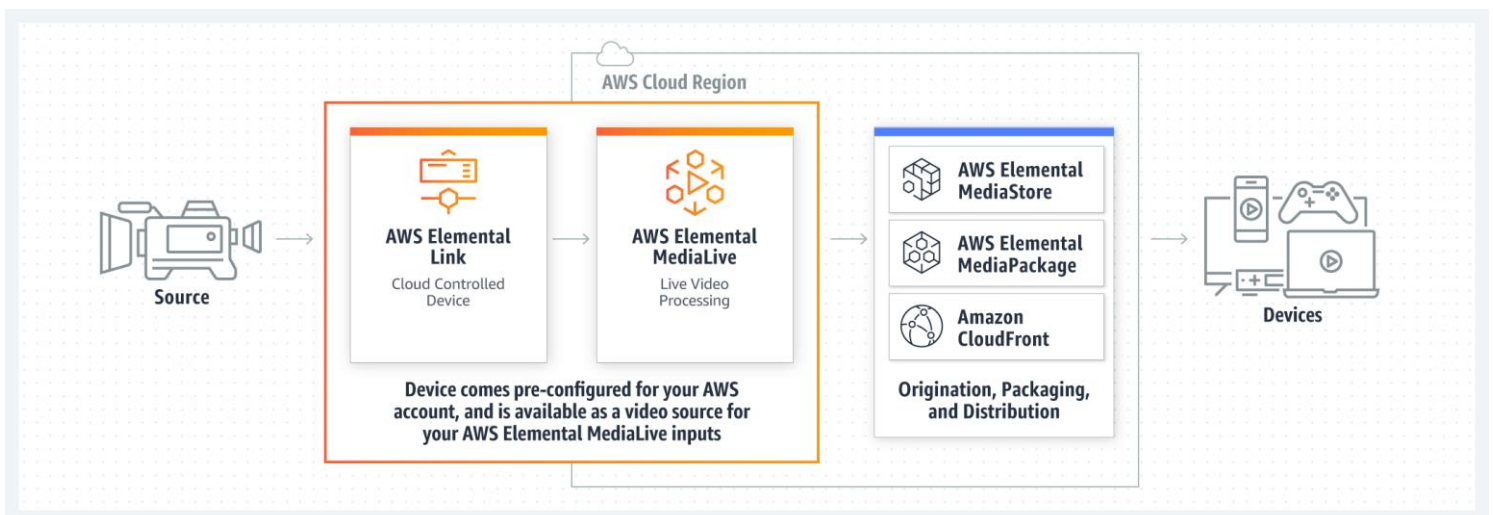
High video quality

Link is designed to maximize the quality of video sent to the cloud and account for the unpredictable nature of network conditions. The device uses an advanced video compression system that continuously adjusts to available bandwidth in order to deliver the best possible video under all network conditions.

Cost efficient

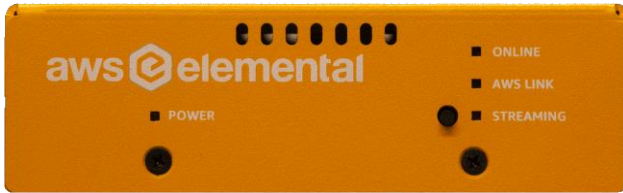
At a price of \$995 USD per device (not including tax, shipping, and MediaLive costs), Link provides a broadcast-grade way to connect your on-premises live video source to MediaLive at a fraction of the cost of traditional approaches. Because setup is easy and management of devices is handled remotely, Link is efficient to own and operate.

HOW IT WORKS



AWS Elemental Link

1x 1GbE RJ45 PoE, 1x 3G-SDI, 1x HDMI



PHYSICAL

Dimensions (W x H x D) 10.80 cm x 3.81 cm x 12.70 cm
4.25 in x 1.50 in x 5.00 in

Weight 0.45 kg (Unit)
1 kg (Gross)

ECCN EAR99

USHTS Code 8525.50.3040

ELECTRICAL

Max Potential Power 18 Watts (Max)

Heat Dissipation 61.42 BTU/hr (Max)

Line Frequency 50 - 60 Hz

Input Voltage 100 - 240 VAC

ENVIRONMENTAL

Operating Conditions 0 to 45 °C (32 to 113 °F)
Up to 85% RH (non-condensing)

Storage Conditions -40 to 80 °C (-40 to 176 °F)

Noise Level 0 dBA (Max)

Electromagnetic Compliance EN55032:2015
EN55024:2010

Safety Compliance EN 60950-1-A2:2013
RoHS 2011/65/EU
REACH 1907/2006/EU

SYSTEM

System Management AWS Elemental MediaLive Console

Interfaces 1x 1GbE RJ45 PoE (Type 1)
1x 3G-SDI
1x HDMI
1x USB 2.0
Momentary Switch Button

INPUT SUPPORT

MediaLive Transport Formats	<ul style="list-style-type: none">- Video is transported to MediaLive as 8-bit color depth with 4:2:0 color space subsampling- Interlaced video is deinterlaced and transported as progressive video
3G-SDI Interface	<ul style="list-style-type: none">- 1920x1080p @ 23.98 fps, 24fps, 25fps, 29.97fps, 30fps, 50fps, 59.94fps, 60fps- 1280x720p @ 50fps, 59.94fps, 60fps- 1920x1080i 25fps, 29.97ps, 30fps (field rate is 50, 59.94, 60 respectively)- 576i 25fps (field rate is 50)- 480i 29.97fps, 30fps (field rate is 59.94 and 60 respectively)
HDMI Interface	<ul style="list-style-type: none">- 1920x1080p @ 23.98 fps, 24fps, 25fps, 29.97fps, 30fps, 50fps, 59.94fps, 60fps- 1280x720p @ 50fps, 59.94fps, 60fps- 1920x1080i 25fps, 29.97ps, 30fps (field rate is 50, 59.94, 60 respectively)- 576i 25fps (field rate is 50)- 480i 29.97fps, 30fps (field rate is 59.94 and 60 respectively)
Metadata	<ul style="list-style-type: none">- Timecode (SMPTE 12M), closed captioning (SMPTE 334), teletext (OP-47), and ad insertion (SCTE-104)
Audio Support	<ul style="list-style-type: none">- 8 embedded audio channels- 32 kHz, 44.1 kHz, and 48 kHz supported
Codec and Transport	<ul style="list-style-type: none">- HEVC (High Efficiency Video Codec)- Zixi delivery protocol- Supported bitrates: 0.5Mbps to 50Mbps- Bitrate limit can be set in AWS Elemental MediaLive- Network adaptive bitrate algorithm adjusts bitrate based on available bandwidth

HARDWARE CONFIGURATION

Network Requirements	<ul style="list-style-type: none">- Port 443: Open for outbound connections to the Internet- Port 2088: Open for outbound connections to the Internet- Port 123: Open for outbound connections to the Internet- No inbound connections ("Port Forwarding") required
IP Provisioning	<ol style="list-style-type: none">1. DHCP supported (Default Configuration)2. Static IP Provisioning supported through on-device UI as per instructions below

BUTTON FUNCTIONALITY

Press and hold for...	When LEDs blink...	Release to set as...
5 seconds	Once	DHCP
10 seconds	Twice	Static IP
15 seconds	Thrice	Revert to default password

LED FUNCTIONALITY

LED	LED State	Definition
Power	OFF	The device is not powered ON
Power	Solid Blue	The device is powered ON
Online	Flashing Red	The network did not provide an IP Gateway
Online	Solid Red	The device can't connect to public internet
Online	Solid Blue	The device has successfully connected to public internet
Online	Flashing Purple	Connected to public internet but port 123 is closed and limiting functionality
AWS Link	Solid Red	Device is not able to link with AWS
AWS Link	Solid Blue	Device has successfully linked to AWS
Streaming	Solid Red	Video source has not locked
Streaming	Flashing Purple	No valid video input and the service is live streaming
Streaming	Solid Purple	Valid video input but not streaming
Streaming	Solid Blue	Video input is valid and the service is live streaming