

# Blackmagic 2110 IP Converter 8x12G SFP



Blackmagic 2110 IP Converter 8x12G SFP lets you add SMPTE-2110 IP video to 12G-SDI broadcast equipment. It features 8 independent bidirectional 12G-SDI to SMPTE-2110 IP video converters using SFP modules for compatibility with optical fiber Ethernet modules for long distances. Its 1RU design includes a control panel with LCD and support HD and Ultra HD standards up to 2160p60.

**\$2,855**

## Connections

### Total SDI Inputs

9

### SDI Video Inputs

8

### SDI Main Program Inputs

1

### Total SDI Outputs

9

### SDI Video Outputs

8

### SDI Main Program Outputs

1 Loop Out.

### SDI Rates

270Mb, 1.5G, 3G, 6G, 12G.

### SMPTE ST-2110 IP Video Inputs/ Outputs

8 x 10G Ethernet

### Analog Audio Outputs

1 x 6.35 mm headphone socket.

### SDI Audio Inputs

16 Ch embedded audio on SDI input.

### SDI Audio Outputs

16 Ch embedded audio on SDI loop output.

### SMPTE ST 2110 IP Audio Inputs

16 Ch embedded audio on ST-2110 IP video via 10G Ethernet.

### SMPTE ST 2110 IP Audio Outputs

16 Ch embedded audio on ST-2110 IP video via 10G Ethernet.

### Multi Rate Support

Auto detection of SD, HD, Ultra HD and 4K.

### Reclocking

Yes

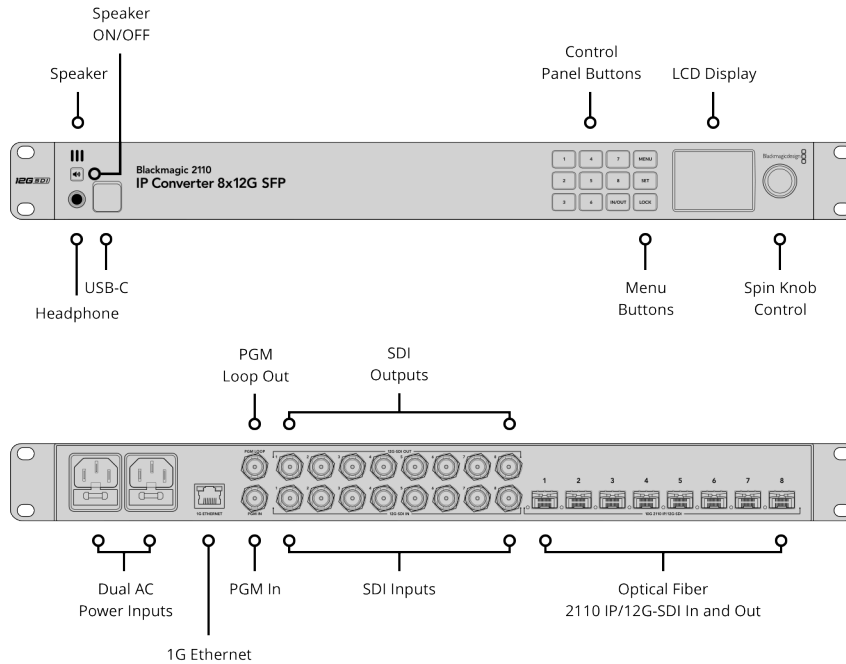
### Ethernet

8 x 10Gb/s SFP sockets supporting up to 10G BASE-T for SMPTE 2110 IP video in and out.

1 x 1Gb/s RJ-45 connector supporting 10/100/1000 BASE-T for configuration and firmware updates.

### Computer Interface

1 x USB-C 3.0 for configuration and firmware updates.



## SDI Video 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  
 1080PsF25, 1080PsF29.97, 1080PsF30

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
 2160p29.97, 2160p30, 2160p47.95,  
 2160p48, 2160p50, 2160p59.94,  
 2160p60

### 4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,  
 4Kp29.97 DCI, 4Kp30 DCI,  
 4Kp47.95 DCI, 4Kp48 DCI, 4Kp50 DCI,  
 4Kp59.94 DCI and 4Kp60 DCI.

### SDI Compliance

SMPTE 292M, SMPTE 296M,  
 SMPTE 424M, SMPTE 425M,  
 SMPTE 2081-1, SMPTE 2081-10,  
 SMPTE 2082-1, SMPTE 2082-10,  
 SMPTE 2084, SMPTE 2108-1,  
 SMPTE ST2110-20, SMPTE ST2110-21,  
 SMPTE ST2110-30, SMPTE ST2110-40.

### SDI Video Rates

SDI video connections are switchable between standard definition, 720p, 1080i, 1080p, 2K DCI, Ultra HD and 4K DCI.

### SDI Color Precision

4:2:2

### SDI Color Space

YUV

### SDI Auto Switching

Automatically detects SD, HD, 2K DCI, Ultra HD and 4K DCI. Level A and B is automatically detected on 3G-SDI input and user selectable on 3G-SDI output.

## 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

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**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 used when converting 12G-SDI rates to 10G 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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## Audio

Front panel audio monitor speaker with speaker control button, plus 6.35 mm headphone socket.

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## Control

**Built in Control Panel**

12 button control panel, 2.2 inch color display and spin knob for setup and menu settings.

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## Operating Systems



Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

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## Power Requirements

**Power Supply**

2 x Internal 100 - 240V AC 50/60Hz  
with IEC C14 mains input.

**Power Usage**

70 W max.

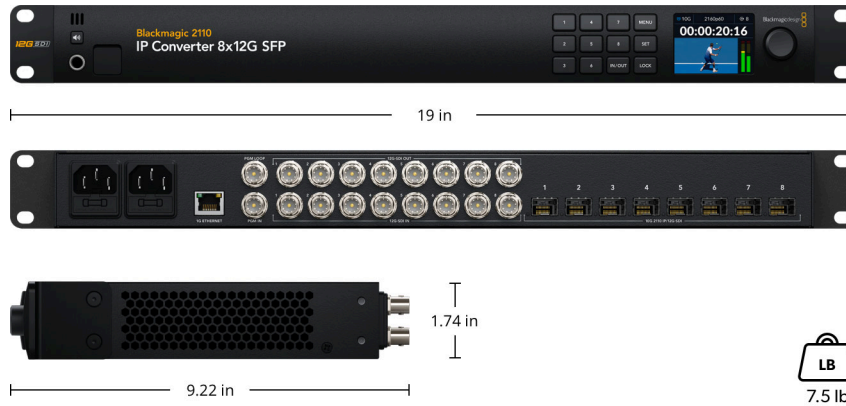
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## Physical Installation

1 rack unit.

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## Physical Specifications



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## Environmental Specifications

### Operating Temperature

5° to 40° C (41° to 104° F)

### Storage Temperature

-20° to 45° C (-4° to 113° F)

### Relative Humidity

0% to 90% non-condensing

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## What's Included

Blackmagic 2110 IP Converter 8x12G SFP

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## Warranty

1 Year Limited Manufacturer's Warranty.

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