

# Blackmagic 2110 IP Converter 8x12G SFP

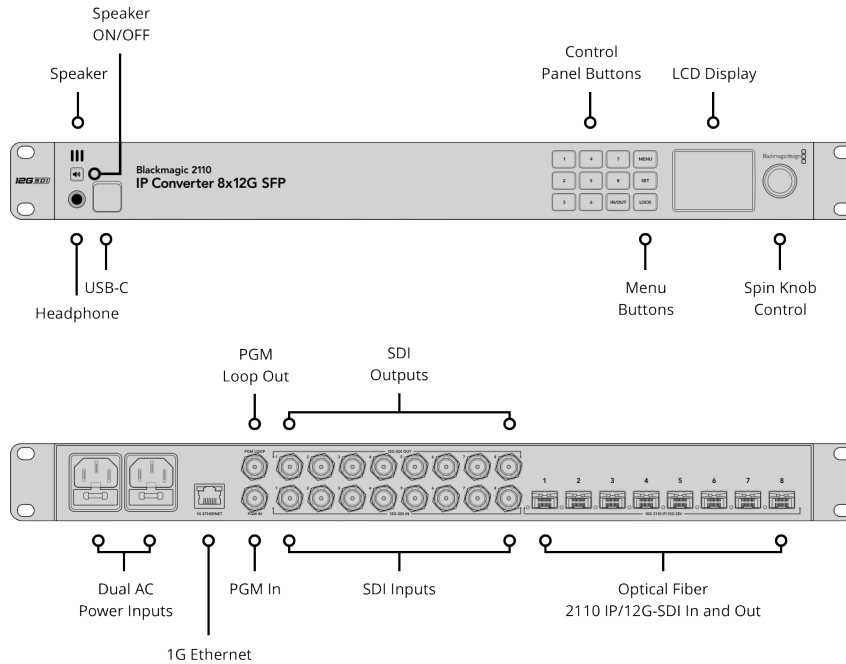


Blackmagic 2110 IP Converter 8x12G SFP lets you add SMPTE-2110 IP video to 12G-SDI broadcast equipment. It features 8 independent bidirectional 12G-SDI to SMPTE-2110 IP video converters using SFP modules for compatibility with optical fiber Ethernet modules for long distances. Its 1RU design includes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

\$2,855

## Connections

|                                                |                                                                                                     |                                                                                                                                                                                                              |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Total SDI Inputs</b><br>9                   | <b>SMPTE ST-2110 IP Video Inputs/Outputs</b><br>8 x 10G Ethernet                                    | <b>Analog Audio Outputs</b><br>1 x 6.35 mm headphone socket.                                                                                                                                                 |
| <b>SDI Video Inputs</b><br>8                   | <b>Analog Audio Outputs</b><br>1 x 6.35 mm headphone socket.                                        | <b>Multi Rate Support</b><br>Auto detection of SD, HD, Ultra HD and 4K.                                                                                                                                      |
| <b>SDI Main Program Inputs</b><br>1            | <b>SDI Audio Inputs</b><br>16 Ch embedded audio on SDI input.                                       | <b>Reclocking</b><br>Yes                                                                                                                                                                                     |
| <b>Total SDI Outputs</b><br>9                  | <b>SDI Audio Outputs</b><br>16 Ch embedded audio on SDI loop output.                                | <b>Ethernet</b><br>8 x 10Gb/s SFP sockets supporting up to 10G BASE-T for SMPTE 2110 IP video in and out.<br>1 x 1Gb/s RJ-45 connector supporting 10/100/1000 BASE-T for configuration and firmware updates. |
| <b>SDI Video Outputs</b><br>8                  | <b>SMPTE ST 2110 IP Audio Inputs</b><br>16 Ch embedded audio on ST-2110 IP video via 10G Ethernet.  | <b>Computer Interface</b><br>1 x USB-C 3.0 for configuration and firmware updates.                                                                                                                           |
| <b>SDI Main Program Outputs</b><br>1 Loop Out. | <b>SMPTE ST 2110 IP Audio Outputs</b><br>16 Ch embedded audio on ST-2110 IP video via 10G Ethernet. |                                                                                                                                                                                                              |
| <b>SDI Rates</b><br>270Mb, 1.5G, 3G, 6G, 12G.  |                                                                                                     |                                                                                                                                                                                                              |



## 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

|                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                               |                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>SMPTE 2110-40 (Ancillary Data)</b><br/>Full access to entire SMPTE ancillary data stream. Includes RP 188/SMPTE 12M-2, closed captioning and HDR static metadata.</p> <p><b>Codec</b><br/>Blackmagic IP10 codec used when converting 12G-SDI rates to 10G 2110 IP video.</p> | <p><b>Precision Time Protocol</b><br/>IEEE 1588-2008 (PTP v2)<br/>ST 2059-1<br/>ST 2059-2</p> <p><b>NMOS IS-04 Discovery and Registration</b><br/>v1.3.2<br/>Peer-to-peer via mDNS/DNS-SD</p> | <p><b>NMOS IS-05 Connection Management</b><br/>v1.1.2</p> <p><b>NMOS BCP-002-01</b><br/>Natural Grouping</p> <p><b>NMOS BCP-004-01</b><br/>Receiver capabilities</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

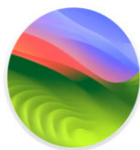
Audio

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

Control

**Built in Control Panel**  
12 button control panel, 2.2 inch color display and spin knob for setup and menu settings.

Operating Systems



Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

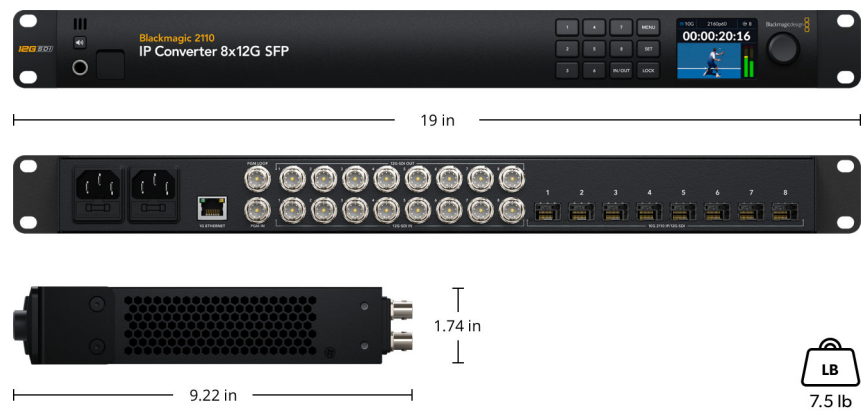
Power Requirements

|                                                                                             |                                         |
|---------------------------------------------------------------------------------------------|-----------------------------------------|
| <p><b>Power Supply</b><br/>2 x Internal 100 - 240V AC 50/60Hz with IEC C14 mains input.</p> | <p><b>Power Usage</b><br/>70 W max.</p> |
|---------------------------------------------------------------------------------------------|-----------------------------------------|

Physical Installation

1 rack unit.

Physical Specifications



Environmental Specifications

| Operating Temperature       | Storage Temperature           | Relative Humidity        |
|-----------------------------|-------------------------------|--------------------------|
| 5° to 40° C (41° to 104° F) | -20° to 45° C (-4° to 113° F) | 0% to 90% non-condensing |

What's Included

Blackmagic 2110 IP Converter 8x12G SFP

Warranty

1 Year Limited Manufacturer's Warranty.

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