

Blackmagic StudioBridge 10G PWR



The Blackmagic StudioBridge 10G PWR is designed to bridge low-cost single link 10G Ethernet SMPTE-2110 connections into high-end redundant 100G Ethernet based systems. It converts and combines 8 channels of 10G Ethernet into a redundant pair of 100G Ethernet connections. That means you can plug in 8 separate 10G Ethernet Ultra HD devices. Each 10G Ethernet port has a massive 90W of PoE++ power, so you can power equipment such as converters and cameras directly from their Ethernet connections!

\$2,745

Connections

100G 2110 IP Networks

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

10G 2110 IP Networks

8 x 10G PoE++ RJ45 connections.

Senders and Receivers per 100G Pair

8 x Ultra HD or HD.

1G Control Network

1 x RJ45 for NMOS control, configuration and software updates.

SMPTE ST 2110 IP Audio Inputs

16 Ch embedded audio on each 2110 IP video stream over 100G and 10G Ethernet.

SMPTE ST 2110 IP Audio Outputs

16 Ch embedded audio on each 2110 IP video stream over 100G and 10G Ethernet.

Multi Rate Support

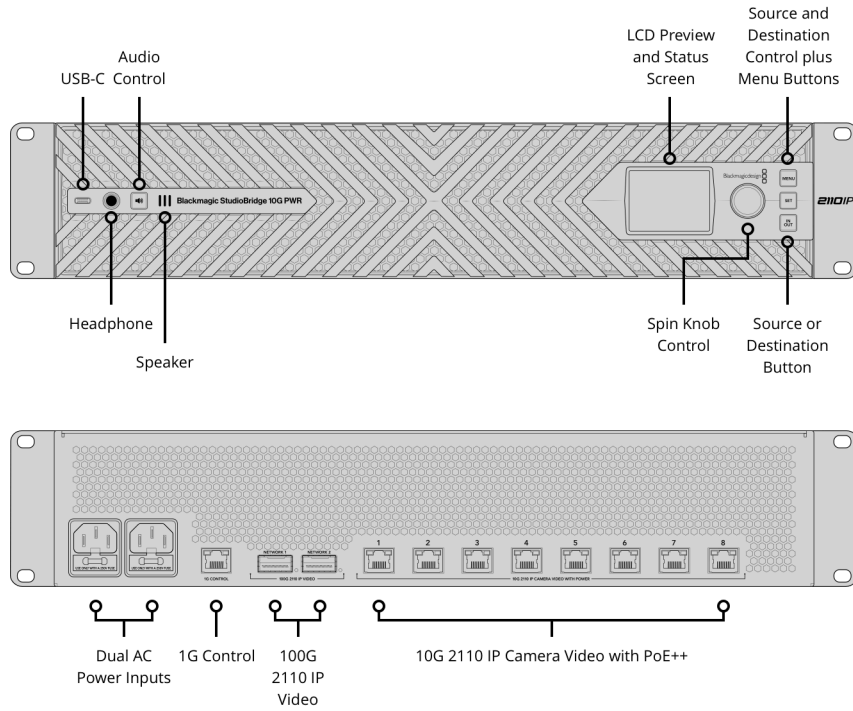
Auto detection of HD and Ultra HD.

Computer Interface

1 x USB-C for configuration and firmware updates.

Power

2 x IEC C14 power inputs.



Video Standards

HD Video Standards

720p50, 720p59.94, 720p60
 1080i50, 1080i59.94, 1080i60
 1080p23.98, 1080p24, 1080p25,
 1080p29.97, 1080p30, 1080p50,
 1080p59.94, 1080p60
 1080PsF25, 1080PsF29.97, 1080PsF30

Ultra HD Video Standards

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

SMPTE Compliance

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

Color Precision

10-bit 4:2:2 YUV

Color Space

Rec. 709, Rec. 2020.

SDI Auto Switching

Automatically detects HD and Ultra HD.

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	NMOS BCP-004-01
Natural Grouping	Receiver capabilities

Displays

Display

Built in 2.2 inch LCD for monitoring video, audio, video standard and timecode plus menu settings. Use search dial to scrub between all available inputs and monitor on front panel.

Control

Built in Control Panel

2.2 inch color display, 3 button control panel and spin knob for source and destination setup and menu settings.

External Control

RJ-45 Ethernet and USB-C.

Operating Systems



Mac 15.0 Sequoia,
Mac 26.0 Tahoe or later.



Windows 11

Power Requirements

Power Supply

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

Power Inputs

2 x IEC C14 sockets.

Power Outputs

8 x 90 W supply to compatible downstream PoE products.

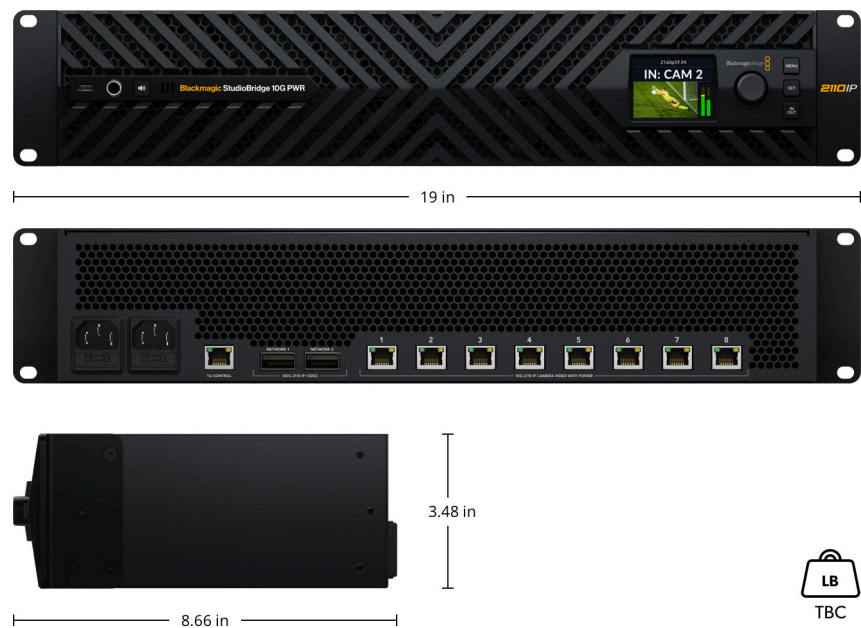
Power Usage

Usage TBC
(including 8 x 90 W PoE supply to downstream devices)

Physical Installation

2 rack units.

Physical Specifications



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

What's Included

Blackmagic StudioBridge 10G PWR
Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller