

BBG-2EO-12G • 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Transmitter



The **BBG-2EO-12G Dual Coax-To-Fiber** throw-down converter unit is a new part of the Blue Box Group™ of compact, rugged, and portable converter boxes. Super-easy to use, Blue Box Dual Coax-To-Fiber supports SMPTE ST2082, ST2081, 424M, 292M, and 259M as well as ASI and MADI audio on two independent coax-to-fiber paths. Auto-mode EQ/reclocking automatically sets to the signal type being received while allowing unrecognized formats to be safely passed without reclocking (auto-reclock can also be manually disabled for either path as desired). Its wide operating range (from 5Mbps to 12Gbps) flexibly supports most professional digital serial communications. Fully error-free pathological pattern operation is fully compatible with other professional fiber video interfaces. SFP-based EO converters provide state-of-the-art fiber performance, power consumption, and compactness.

BBG-2EO-12G receives its operating power via a USB connection or using an AC adapter connection. These power sources can be simultaneously used to provide redundant power sourcing.

FEATURES

Dual independent fiber-to-coax paths – all in one easy to use throw-down box

Full support of 5Mbps thru 12Gbps transport conversions, with seamless auto-mode EQ/ reclocking. No switches to set for different payloads.

Dual-channel input lock status indicators. Optical Tx power meter fields allow optical Tx confidence assessment.

Compatible with SMPTE ST2082, ST2081, 424M, 292M, 259M, 310M, M2S, DVB-ASI, and MADI audio.

Error-free pathological support.

Available with ST, LC, or FC fiber termination.

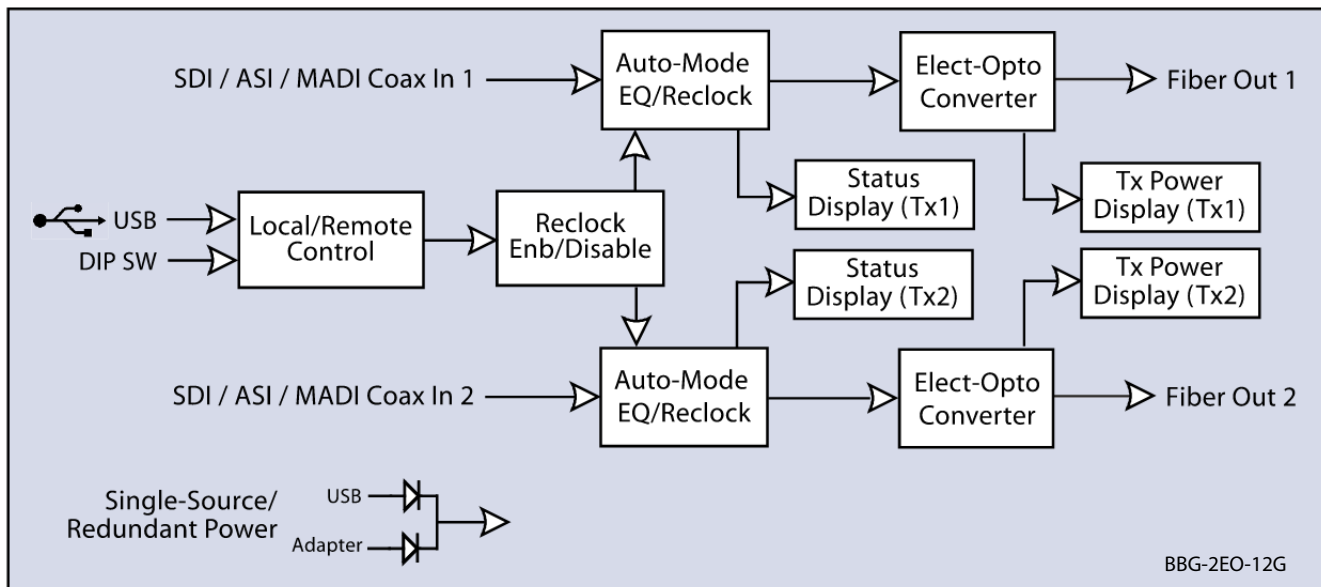
Compact size and low weight design easily affixes directly to camera or host device chassis. Optional BBG-MB mounting bracket provides rigid, secure mounting to mounting surfaces

USB remote control/status in addition to device indicator and switches

SFP-based EO converter provides state-of-the-art fiber performance, power consumption, and compactness.

Powers directly from host equipment USB or standard corded power adapter. USB power and corded adapter can be simultaneously used to provide redundant power sourcing.

Rugged construction backed with a five-year warranty.



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SPECIFICATIONS

Power

5-16 VDC, 2.4 W
 DC Power Connectors
 USB Mini and coaxial locking connector (for use with supplied Cobalt power adapter)

Standards/Data Rates Supported

SMPTE ST2082, ST2081, 424M, 292M, 259M, 344M, 305M, DVB-ASI
 5Mbps to 12Gbps pathological pattern operation
 (does not support AES-3id audio or other standards using data rates < 5Mbps)

Input

(2) 75Ω BNC Reclocking automatically engaged for recognized signal standards; bypassed for unrecognized standards.
 Return Loss:>18 dBm up to 270 MHz

Outputs

(2) Fiber outputs. FC, ST, or LC connectors per ordered configuration (see Ordering Info)
 Wavelength: 1310 nm
 Power: -5.0dBm (min)

Dimensions (WxHxD)

5.5" x 3" x 1" (including connector projections)
 (139 x 77 x 26 mm)

Operating Temperature Range

32°F to 122°F
 (0°C to 50°C)

Note: Specifications subject to change.

ORDERING INFORMATION

BBG-2EO-12G-FC 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Dual Transport Receiver (Type FC fiber connector)

BBG-2EO-12G-ST 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Dual Transport Receiver (Type ST fiber connector)

BBG-2EO-12G-LC 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Dual Transport Receiver (Type LC fiber connector)

Note: Device includes one PS4 Power Supply (AC adapter). Power supplies listed below are for replacement or spares purposes:

- **PS4** Universal Power Supply, UL/CSA. Input: 100-240V, 60/50 Hz. Output: 5 VDC @ 12 Watts
- **PS5** Universal Power Supply, IEC Connector, CE/UL/CSA. Input: 100-240V, 60/50 Hz. Output: 5V, 2A (International Power Supply. Specify country of destination.)

Note: The USB GUI application available for BBG-2EO-12G is a free download (Windows Security Certified) that can be downloaded from our Support web page. Instructions for downloading and using the app are included in product documentation. The application is not required for device usage where only DIP switch configuration is desired.

Currently, this application is available for only the following operating systems:

- Windows Vista
- Windows 7
- Windows 8
- Windows 8.1
- Windows 10

BBG-TRAY BBG Mounting Sled (See BBG-TRAY page for full complement of throwdown BBG tray mounting accessories and illustrations.)

BBG-MB Mounting Bracket (see Product Downloads for downloading installation instruction sheet)