

BBG-20E-12G 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Transmitter



The Blue Box BBG-20E-12G Dual Fiber-To-Coax 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 Fiber-To-Coax supports SMPTE ST2082, ST2081, 424M, 292M, and 259M as well as ASI and MADI audio on two independent fiber-to-coax 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 OE converters provide state-of-the-art fiber performance, power consumption, and compactness.

BBG-20E-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 reclocking. No switches to set for different payloads.

Available with ST, LC, or FC fiber termination

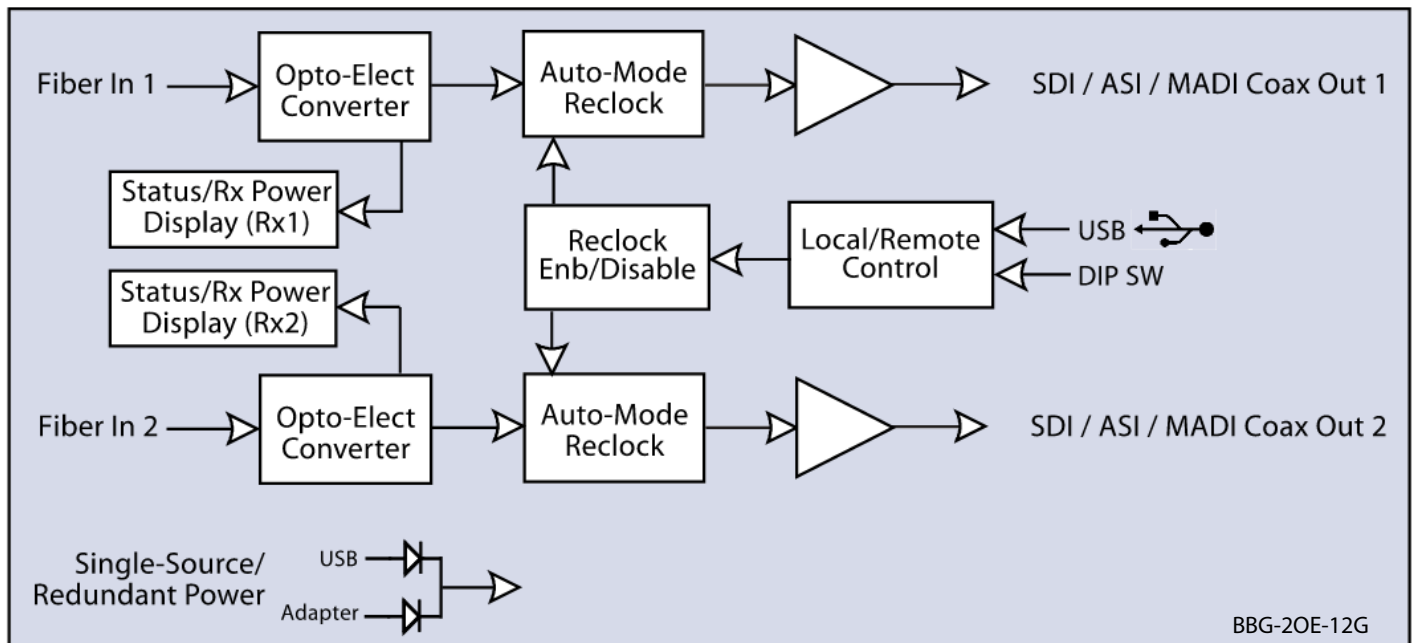
Compact size and low weight design easily affixes directly to camera or host device chassis. Optional BBG-MB mounting bracket provides rigid, secure mounting to mounting surfaces.

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

SFP-based OE converters provide 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)

Inputs

(2) Fiber output. FC, ST, or LC connectors per ordered configuration (see Ordering Info)
Wavelength: 1260 to 1620 nm
Sensitivity/Input Usable Range: -18 dBm min.; -1 dBm max

Outputs

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

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-20E-12G-FC 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Dual Transport Receiver (Type FC fiber connector)

BBG-20E-12G-ST 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Dual Transport Receiver (Type ST fiber connector)

BBG-20E-12G-LC 12G/6G/3G/HD/SD-SDI / ASI / MADI Fiber Optic Dual Transport Receiver (Type LC fiber connector)

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)

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.)