

THROW DOWN! WITH THE BLUE BOX

COMPACT CONVERSION. PEAK PERFORMANCE.

Delivering excellent performance and a small footprint, Blue Box low-cost modular boxes provide 3G/HD/SD-SDI, HDMI, and analog conversions with audio embed / de-embed, as well as models offering coax/fiber conversions. Blue Box is backed by a five-year warranty.

Blue Box Group™

Low cost modular boxes;
excellent performance

3G (1080p59.94/50)
support for HDMI models

Analog Audio embed/de-embed

Backed by 5 year warranty

Small footprint



Blue Box Group™ models include:

- BBG-S-TO-H - 3G/HD/SD-SDI to HDMI with de-embedder
- BBG-H-TO-S - SDI - HDMI to 3G/HD/SD-SDI with embedder
- BBG-S-TO-A - HD/SD-SDI to HD/SD analog component/composite with audio de-embedder
- BBG-A-TO-S - Analog component/composite with audio embedder
- BBG-EMDE-AES - 3G/HD/SD-SDI 16-Channel AES Audio Embedder/De-Embedder
- BBG-EM-AA - 3G/HD/SD-SDI 8-Channel Analog Audio Embedder
- BBG-DE-AA - 3G/HD/SD-SDI 8-Channel Analog Audio DE-Embedder
- BBG-OE - 3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Receiver
- BBG-2OE - 3G/HD/SD-SDI / ASI / MADI Dual Fiber Optic Dual Transport Receiver
- BBG-EO - 3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Transmitter
- BBG-2EO - 3G/HD/SD-SDI / ASI / MADI Dual Fiber Optic Dual Transport Transmitter
- BBG-E00E - 3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Transceiver
- BBG-OEO - 3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Regenerator
- BBG-F-TO-H - 3G/HD/SD-SDI Fiber Optic-To-HDMI Converter
- BBG-H-TO-F - 3G/HD/SD-SDI HDMI-To-Fiber Optic Converter



FOR DETAILS ON OUR GSA CERTIFIED
DEALERS PLEASE VISIT COBALTDIGITAL.COM

COBALTDIGITAL.COM

US SALES 800 669-1691 / DIRECT +1 217-344-1243 / SALES@COBALTDIGITAL.COM

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. E. & O.E. ©2014 COBALT DIGITAL INC.



» BLUE BOX COMPACT CONVERTER UNITS



Cobalt introduces Blue Box – our all-new line of interface converter boxes that not only offer excellent performance, but also excel to a new level of ease of use and installation practicality.

Many Blue Box models can power directly via USB to get its power from video monitors or other equipment.

» FEATURES

3G (1080p5994/50) conversion on HDMI models

Audio embed/de-embed for analog audio interfaces.

Convenient, compact form and fit provides secure and uncluttered affixing to monitors and cameras

Rugged construction backed with a five-year warranty

» BLUE BOX UNITS AVAILABLE IN THE FOLLOWING INTERFACE PACKAGES

Blue Box HDMI-To-SDI HDMI-to-3G/HD/SD-SDI with Audio Embedder

Blue Box SDI-To-HDMI 3G/HD/SD-SDI-to-HDMI with Audio De-Embedder

Blue Box AES Audio Embedder/De-Embedder 3G/HD/SD-SDI 16-Channel AES Audio Embedder/De-Embedder

Blue Box Analog Audio Embedder 3G/HD/SDI 8-Channel Audio Embedder

Blue Box Fiber-To-Coax 3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Receiver

Blue Box Dual Fiber-To-Coax 3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Receiver

Blue Box Coax-To-Fiber 3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transmitter

Blue Box Dual Coax-To-Fiber 3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Transmitter

Blue Box SDI-To-Analog HD/SD-SDI-to-HD/SD Analog Component/Composite with Audio De-Embedder

Blue Box Analog-To-SDI HD/SD Analog Component/Composite-to-HD/SD-SDI with Audio Embedder

Blue Box Analog Audio De-Embedder 3G/HD/SDI 8-Channel Analog Audio De-Embedder

Blue Box Coax/Fiber Transceiver 3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transceiver

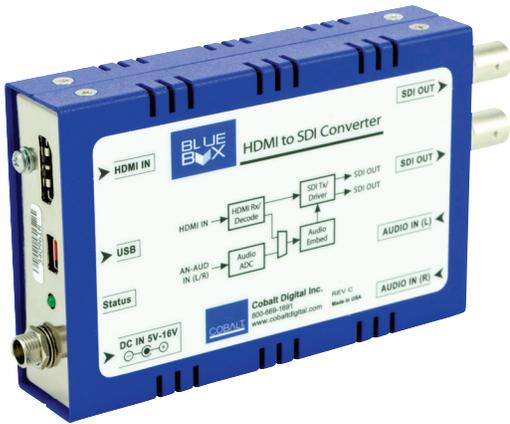
Blue Box Fiber Regenerator 3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Regenerator

Blue Box Fiber-To-HDMI 3G/HD/SD-SDI Fiber Optic-To-HDMI Converter

Blue Box HDMI-To-Fiber 3G/HD/SD-SDI HDMI-To-Fiber Optic Converter



BBG-H-TO-S » HDMI-TO-3G/HD/SD-SDI WITH AUDIO EMBEDDER



Blue Box offers excellent performance, and excels to a new level of ease of use and installation practicality.

Designed to power from associated equipment, Blue Box provides for a neater, more physically secure and dependable installation than with other interface boxes. Blue Box can power directly via USB to get its power from video monitors or other equipment.

» FEATURES

Powers directly from host equipment USB jack and/or AC adapter, with simultaneous use providing power redundancy

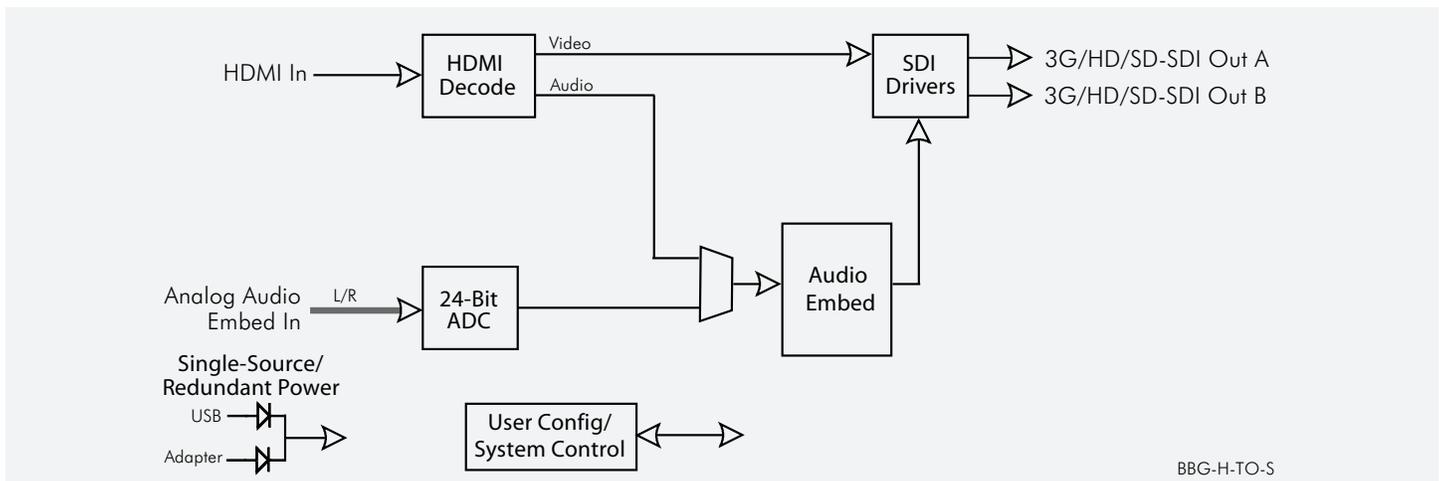
5.1-channel embedding from HDMI audio. Stereo embedding from stereo analog audio input pair.

Direct conversion from HDMI to SMPTE 259M, 292M and 424M SDI.

Small rugged portable standalone package ideal for portable installations. Compact size and low weight design easily affixes directly to camera or host device chassis.

2x SDI DA output

Rugged construction backed with a five-year warranty



» SPECIFICATIONS

Power
5-16 VDC, 2.4 W (AC adapter included)

DC Power Connectors
USB Mini and coaxial locking connector (for use with supplied Cobalt power adapter)

Standards/Data Rates Supported
SMPTE 424M, 292M, 259M

Inputs
- HDMI (HDMI 1.4a compliant)
- (2) analog audio (unbalanced consumer RCA)

Outputs
(2) SDI (75Ω BNCs)

Audio conversion format
48 kHz sampling, 24-bit
8-ch HDMI to SDI groups 1 and 2

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

» ORDERING INFORMATION

BBG-H-TO-S HDMI-to-3G/HD/SD-SDI with Audio Embedder Converter Unit



BBG-S-TO-H » 3G/HD/SD-SDI-TO-HDMI WITH AUDIO DE-EMBEDDER



Blue Box offers excellent performance, and excels to a new level of ease of use and installation practicality.

Designed to power from associated equipment, Blue Box provides for a neater, more physically secure and dependable installation than with other interface boxes. Blue Box can power directly via USB to get its power from video monitors or other equipment.

» FEATURES

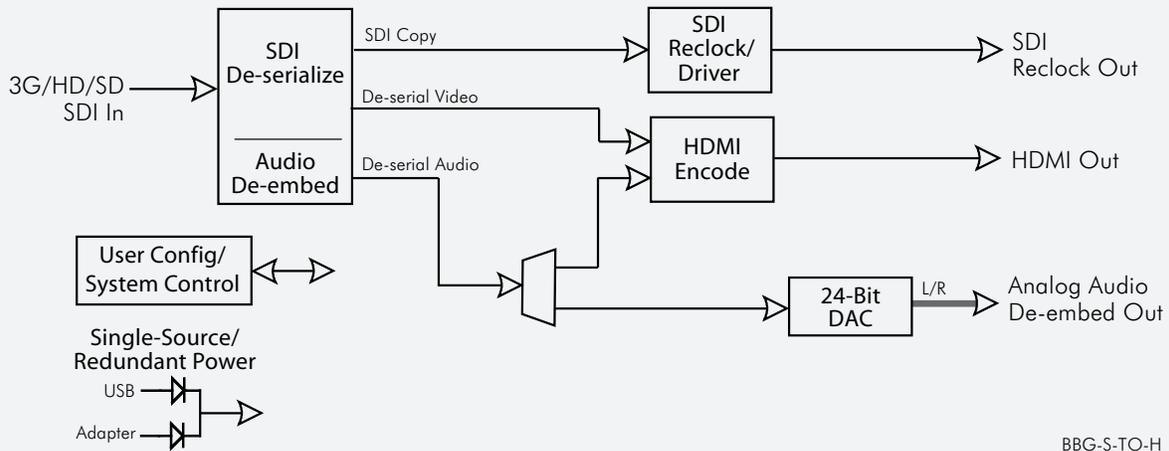
Powers directly from host equipment USB jack and/or AC adapter, with simultaneous use providing power redundancy

Full 5.1 channel audio conversion to HDMI audio with selectable C/LFE line-up control. Audio de-embed of selected group 1/2 pair to analog audio output pair.

Small rugged portable standalone package ideal for portable installations. Compact size and low weight design easily affixes directly to camera or host device chassis.

SDI input copy output allows converter to provide SDI pass-thru

Rugged construction backed with a five-year warranty



BBG-S-TO-H

» SPECIFICATIONS

Standards/Data Rates Supported

SMPTE 424M, 292M, 259M

Power

5-16 VDC, 2.4 W (AC adapter included)

DC Power Connectors

USB Mini and coaxial locking connector (for use with supplied Cobalt power adapter)

Inputs

SDI (75Ω BNC)

Outputs

- HDMI (HDMI 1.4 compliant)
- SDI reclocked input copy (75Ω BNC)
- (2) analog audio (unbalanced consumer RCA)

Audio conversion format

48 kHz sampling, 24-bit
SDI groups 1/2 to HDMI Ch 1-8 (with user-selectable C/LFE line-up)

Dimensions

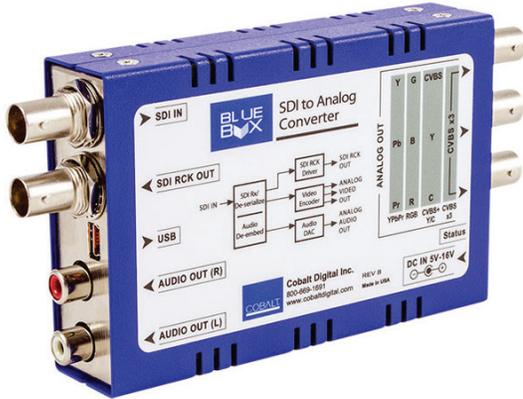
5.5" x 3" x 1" (including connector projections)
(139 x 77 x 26 mm)

» ORDERING INFORMATION

BBG-S-TO-H 3G/HD/SD-SDI-to-HDMI with Audio De-Embedder Converter Unit



BBG-S-TO-A » HD/SD-SDI-TO-HD/SD ANALOG COMPONENT/COMPOSITE WITH AUDIO DE-EMBEDDER



Blue Box offers excellent performance, and excels to a new level of ease of use and installation practicality.

Designed to power from associated equipment, Blue Box provides for a neater, more physically secure and dependable installation than with other interface boxes. Blue Box can power directly via USB to get its power from video monitors or other equipment.

» FEATURES

Powers directly from host equipment USB jack and/or AC adapter, with simultaneous use providing power redundancy

Audio de-embed to analog pair from SDI input

High-quality 12-bit D/A conversion of NTSC/PAL SMPTE 259M or SMPTE 292M to YPbPr / RGB component or

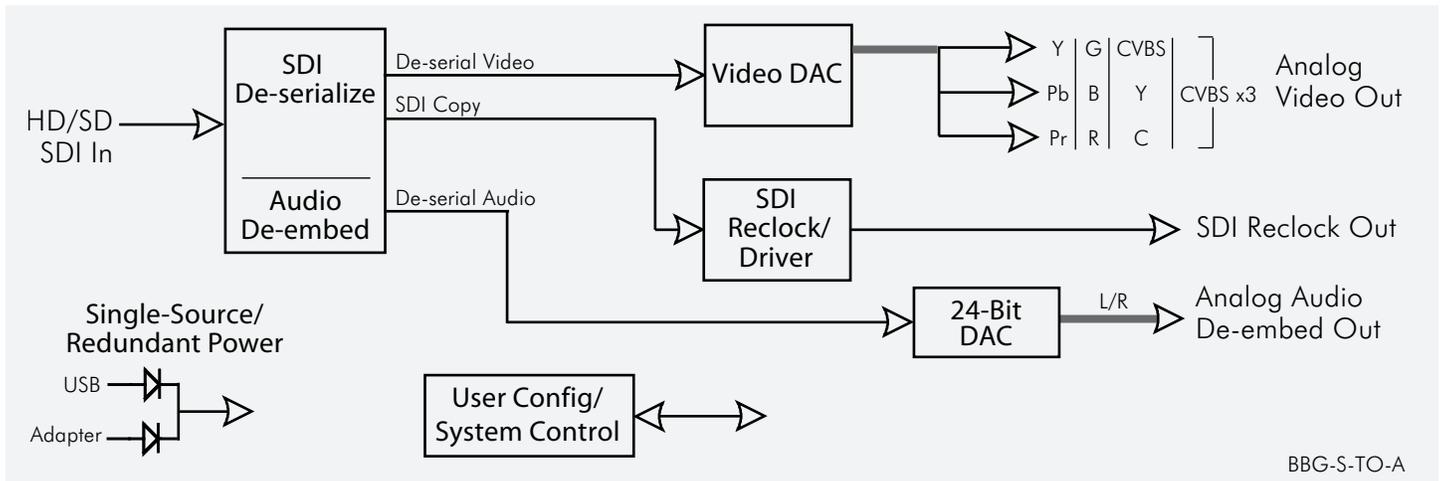
CVBS / S-Video composite video
Small rugged portable standalone package ideal for portable installations

Passes line 21 closed-captioning for SD-SDI to analog conversions

De-embedding from selectable embedded pair to stereo analog audio outputs

SDI input copy output allows converter to provide SDI pass-thru

Rugged construction backed with a five-year warranty



BBG-S-TO-A

» SPECIFICATIONS

Standards/Data Rates Supported
SMPTE 292M, 259M

Power
5-16 VDC, 2.4 W (AC adapter included)

DC Power Connectors
USB Mini and coaxial locking connector (for use with supplied Cobalt power adapter)

Input
SDI (75Ω BNC)

Outputs
- YPbPr, RGB, Y/C, or CVBS analog video (75Ω BNCs)
- SDI reclocked input copy (75Ω BNC)
- (2) analog audio (unbalanced consumer RCA)

Audio conversion format
48 kHz sampling, 24-bit

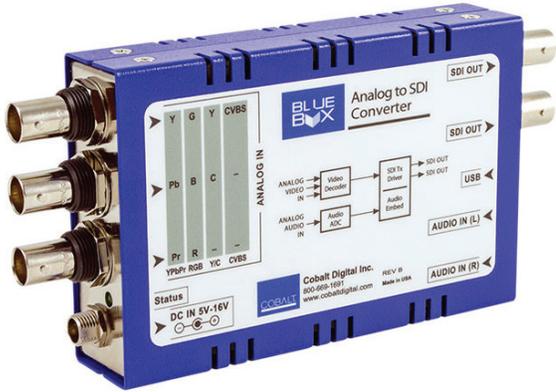
Dimensions
5.5" x 3" x 1" (including connector projections)
(139 x 77 x 26 mm)

» ORDERING INFORMATION

BBG-S-TO-A HD/SD-SDI-to-HD/SD Analog Component/Composite with Audio De-Embedder Converter Unit



BBG-A-TO-S » HD/SD ANALOG COMPONENT/COMPOSITE-TO-HD/SD-SDI WITH AUDIO EMBEDDER CONVERTER UNIT



Blue Box offers excellent performance, and excels to a new level of ease of use and installation practicality.

Designed to power from associated equipment, Blue Box provides for a neater, more physically secure and dependable installation than with other interface boxes. Blue Box can power directly via USB to get its power from video monitors or other equipment.

» FEATURES

Powers directly from host equipment USB jack and/or AC adapter, with simultaneous use providing power redundancy

2-channel audio embedding

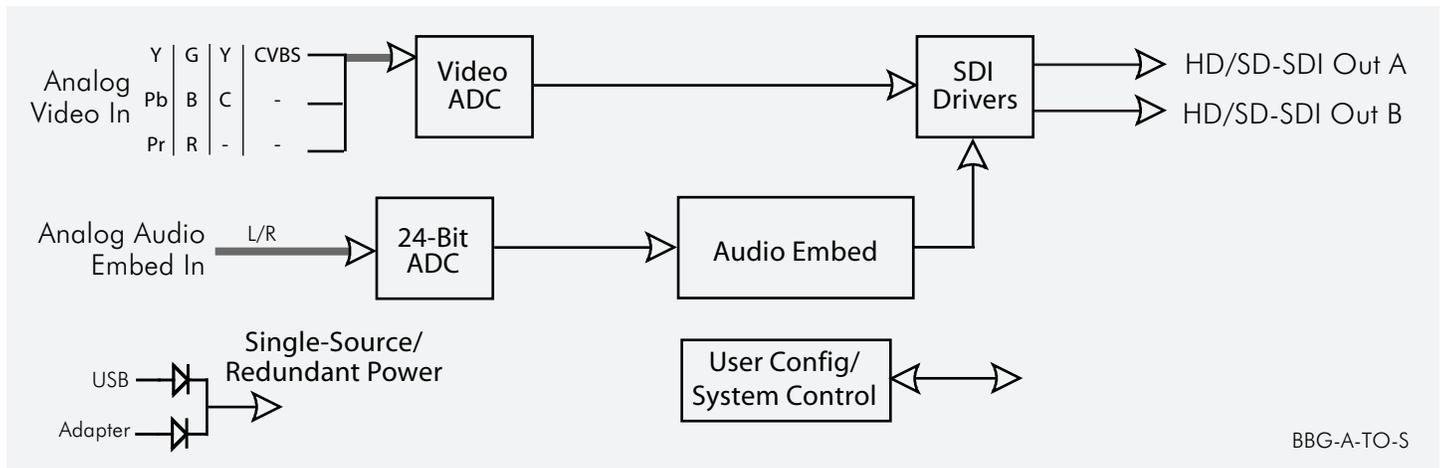
High-quality 12-bit A/D conversion of NTSC/PAL YPbPr / RGB component or S-Video / CVBS composite video to SMPTE 259M or SMPTE 292M

Small rugged portable standalone package ideal for portable installations

Passes line 21 closed-captioning for analog-to-SD-SDI conversions

2x SDI DA output

Rugged construction backed with a five-year warranty



» SPECIFICATIONS

Standards/Data Rates Supported

SMPTE 292M, 259M

Power

5-16 VDC, 2.4 W (AC adapter included)

DC Power Connectors

USB Mini and coaxial locking connector (for use with supplied Cobalt power adapter)

Input

- YPbPr, RGB, Y/C, CVBS analog video (75Ω BNCs)
 - (2) analog audio (unbalanced consumer RCA)

Outputs

(2) SDI (75Ω BNCs)
 Audio conversion format
 48 kHz sampling, 24-bit

Dimensions

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

» ORDERING INFORMATION

BBG-A-TO-S HD/SD Analog Component/Composite-to-HD/SD-SDI with Audio Embedder Converter Unit



BBG-EMDE-AES » 3G/HD/SD AES AUDIO EMBEDDER/DE-EMBEDDER

Blue Box™ offers excellent performance, and excels to a new level of ease of use and installation practicality. The BlueBox™ 3G/HD/SD AES Audio Embedder/De-Embedder provides full 16-channel embed and de-embed between AES and all four groups of embedded audio. Audio embed adaptive SRC allows asynchronous 48 kHz AES audio to automatically sync with device 48 kHz timing for glitch-free embedding.

Embed / De-embed selection can be configured using the device DIP switches or can be configured using an intuitive GUI application that communicates with BBG-EMDE-AES over a PC's USB port. The GUI app allows dynamic configuration control, status display, audio meters, tone generators, and other advanced control functions not commonly found on "throwdown" packages. When configured using the GUI app, the USB connection can be removed with all settings held in non-volatile device memory.

BBG-EMDE-AES75: AES-3id 75Ω (BNC) AES I/O

BBG-EMDE-AES110: AES/EBU 110Ω (XLR balanced) AES I/O

» FEATURES

8-pair (16-channel) AES support. Individual per-pair embedding or de-embedding. DB-15 connector with AES breakout provides compact footprint (models available with AES-3id BNC or AES/EBU balanced XLR connections). AES I/O can utilize direct connection from standard DB-15 connectors.

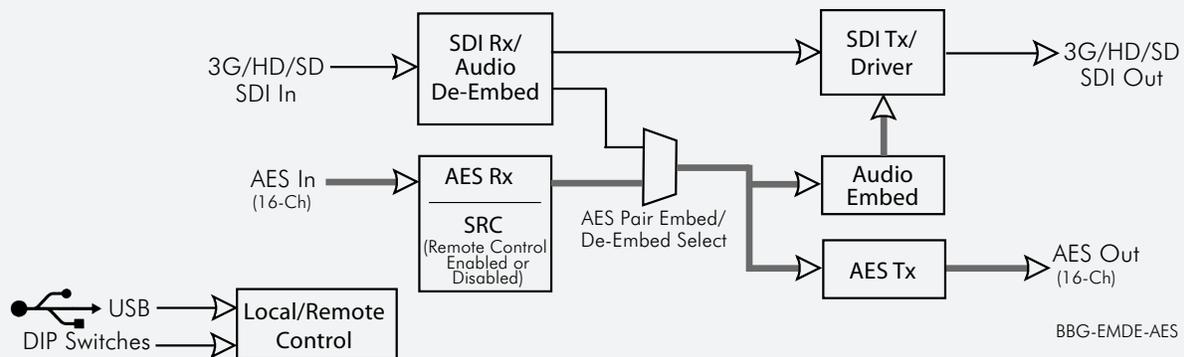
Configurable using device DIP switches or USB GUI remote control offering dynamic configuration control, status display, audio meters, tone generators, and other advanced control functions not commonly found on "throwdown" packages

Small rugged portable standalone package ideal for portable installations. Compact size and low weight design easily affixes directly to host device chassis.

Audio embed adaptive SRC allows asynchronous 48 kHz AES audio to automatically sync with device 48 kHz timing for glitch-free embedding. SRC can be user enabled or disabled and is automatically bypassed for Dolby® embedding.

Settings configurable via unit switches or USB

Rugged construction backed with a five-year warranty



» SPECIFICATIONS

Power

5-16 VDC, <5 W (AC adapter included)

DC Power Connectors

Coaxial locking connector (for use with supplied Cobalt power adapter).

USB Port

Mini-USB (reserved for firmware upgrade upload to device)

Standards/Data Rates Supported

SMPTE 259M, 292M, 424M

Input/Outputs

- 3G/HD/SD-SDI In (75Ω BNC)
- 8-pair AES-3id (75Ω) (BBG-EMDE-AES75)
- 8-pair AES/EBU (110Ω BALANCED) (BBG-EMDE-AES110)
- AES I/O via DB-15 connector and AES BNC breakout adapter (supplied)
- 3G/HD/SD-SDI Out (75Ω BNC)

Audio conversion format

48 kHz sampling, 24-bit with adaptive SRC. Auto SRC bypass for Dolby® embedding. SRC user enable/disable manual control.

Dimensions

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

» ORDERING INFORMATION

BBG-EMDE-AES75 3G/HD/SD AES Audio Embedder/De-Embedder; AES-3id 75Ω (BNC) AES I/O

BBG-EMDE-AES110 3G/HD/SD AES Audio Embedder/De-Embedder; AES/EBU 110Ω (XLR balanced) AES I/O

Note: The USB GUI application available for BBG-EMDE-AES 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



BBG-EM-AA » 3G/HD/SD ANALOG AUDIO EMBEDDER

Blue Box™ offers excellent performance, and excels to a new level of ease of use and installation practicality. The Blue Box™ 3G/HD/SD Analog Audio Embedder provides embedding from professional balanced audio at pro 24 dBu to 0 dBFS to levels using full 24-bit conversion.

Embed selection can be configured using the device DIP switches or can be configured using an intuitive GUI application that communicates with BBG-EM-AA over a PC's USB port. The GUI app allows dynamic configuration control, status display, audio meters, tone generators, and other advanced control functions not commonly found on "throwdown" packages. When configured using the GUI app, the USB connection can be removed with all settings held in non-volatile device memory.

» FEATURES

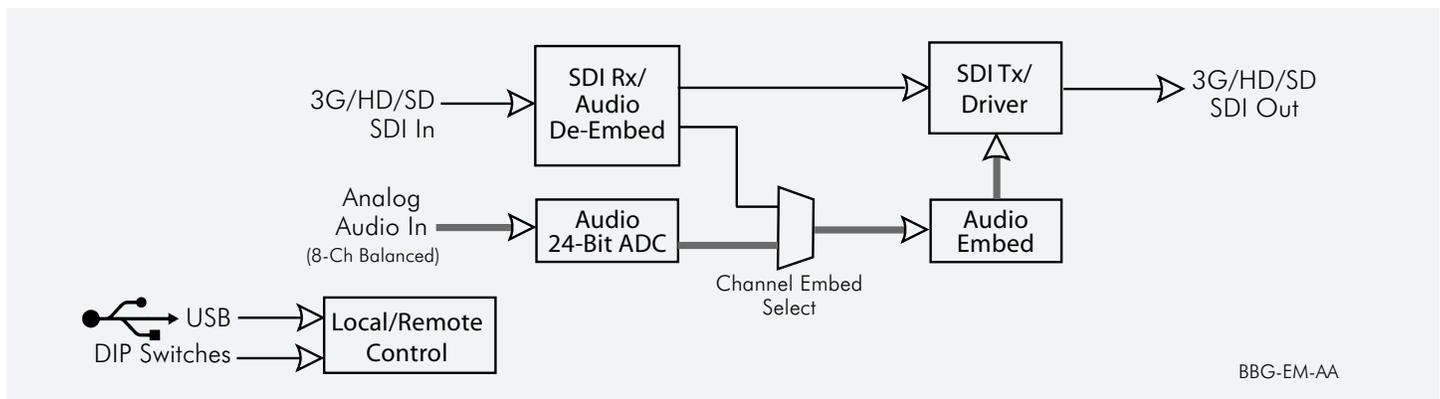
Eight balanced analog audio inputs with user-selectable direct embedding to groups 1 thru 4. DB-25 connector with XLR breakout provides compact footprint. Balanced analog audio inputs can utilize direct connection from standard DB-25 connectors.

Configurable using device DIP switches or USB GUI remote control offering dynamic configuration control, status display, audio meters, tone generators, and other advanced control functions not commonly found on "throwdown" packages.

Balanced audio embed with full 24 dBu-to-0 dBFS 24-bit conversion.

Small rugged portable standalone package ideal for portable installations. Compact size and low weight design easily affixes directly to host device chassis.

Rugged construction backed with a five-year warranty



» SPECIFICATIONS

Power
5-16 VDC, <5 W (AC adapter included)

DC Power Connectors
Coaxial locking connector (for use with supplied Cobalt power adapter).

USB Port
Mini-USB (reserved for firmware upgrade upload to device)

Standards/Data Rates Supported
SMPTE 259M, 292M, 424M

Input/Outputs
- 3G/HD/SD-SDI In (75Ω BNC)
- 8-channel balanced analog audio input via DB-25 connector and XLR breakout adapter (supplied)
- 3G/HD/SD-SDI Out (75Ω BNC)

Audio conversion format
48 kHz sampling, 24-bit. Supports inputs up to 24 dBu

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

» ORDERING INFORMATION

BBG-EM-AA 3G/HD/SD AES Analog Audio Embedder

Note: The USB GUI application available for BBG-EM-AA 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



BBG-DE-AA » 3G/HD/SD ANALOG AUDIO DE-EMBEDDER

Blue Box™ offers excellent performance, and excels to a new level of ease of use and installation practicality. The Blue Box™ 3G/HD/SD Analog Audio De-Embedder provides de-embedding to professional balanced audio at 0 dBFS to pro 24 dBu levels using full 24-bit conversion.

De-embed selection can be configured using the device DIP switches or can be configured using an intuitive GUI application that communicates with BBG-DE-AA over a PC's USB port. The GUI app allows dynamic configuration control, status display, audio meters, tone generators, and other advanced control functions not commonly found on "throwdown" packages. When configured using the GUI app, the USB connection can be removed with all settings held in non-volatile device memory.

» FEATURES

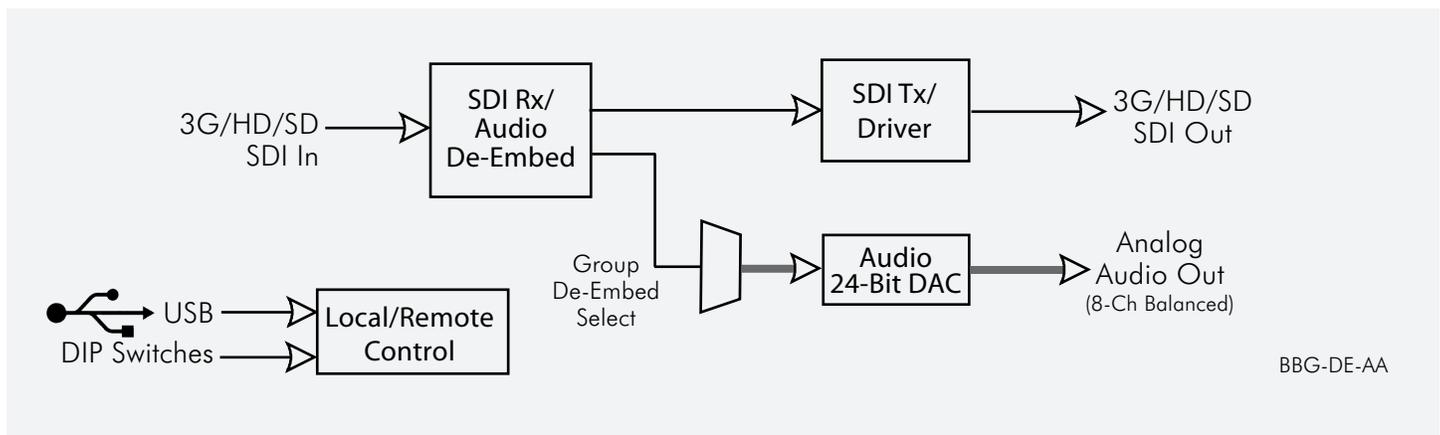
Eight balanced analog audio outputs with user-selectable direct de-embedding of groups 1 thru 4. DB-25 connector with XLR breakout provides compact footprint. Balanced analog audio outputs can utilize direct connection from standard DB-25 connectors.

Configurable using device DIP switches or USB GUI remote control offering dynamic configuration control, status display, audio meters, tone generators, and other advanced control functions not commonly found on "throwdown" packages.

Balanced audio de-embed with full 0 dBFS to 24 dBu 24-bit conversion.

Small rugged portable standalone package ideal for portable installations. Compact size and low weight design easily affixes directly to host device chassis.

Rugged construction backed with a five-year warranty



» SPECIFICATIONS

Power
5-16 VDC, <5 W (AC adapter included)

DC Power Connectors
Coaxial locking connector (for use with supplied Cobalt power adapter).

USB Port
Mini-USB (reserved for firmware upgrade upload to device)

Standards/Data Rates Supported
SMPTE 259M, 292M, 424M

Input/Outputs

- 3G/HD/SD-SDI In (75Ω BNC)
- 8-channel balanced analog audio output via DB-25 connector and XLR breakout adapter (supplied)
- 3G/HD/SD-SDI Out (75Ω BNC)

Audio conversion format
48 kHz sampling, 24-bit. Supports outputs up to 24 dBu

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

» ORDERING INFORMATION

BBG-DE-AA 3G/HD/SD Analog Audio De-Embedder

Note: The USB GUI application available for BBG-DE-AA 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



» BLUE BOX COMPACT CONVERTER UNITS

BBG-OE » BLUE BOX FIBER-TO-COAX RECEIVER

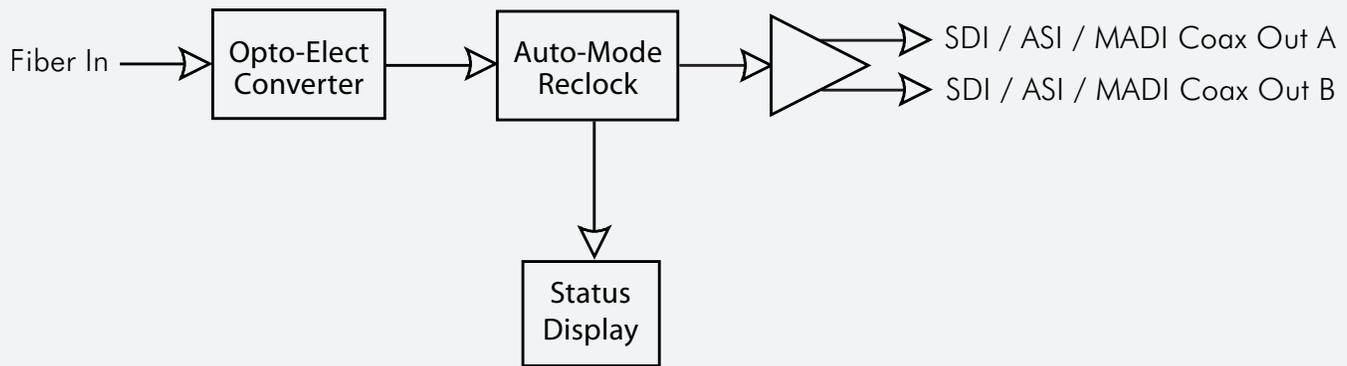
Full support of 5Mbps thru 3Gbps transport conversions, with seamless auto-mode reclocking. No switches to set for different payloads.

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

Error-free pathological support. Full compatibility with other Blue Box™ Coax/Fiber units and Cobalt 9400-series openGear® frame-installed fiber cards

Small rugged portable standalone package ideal for portable installations

Powers from 5 to 16 VDC (AC adapter included). Directly compatible with low-voltage (+12 VDC) automotive/truck systems.



BBG-OE-XX

BBG-2OE » BLUE BOX DUAL FIBER-TO-COAX RECEIVER

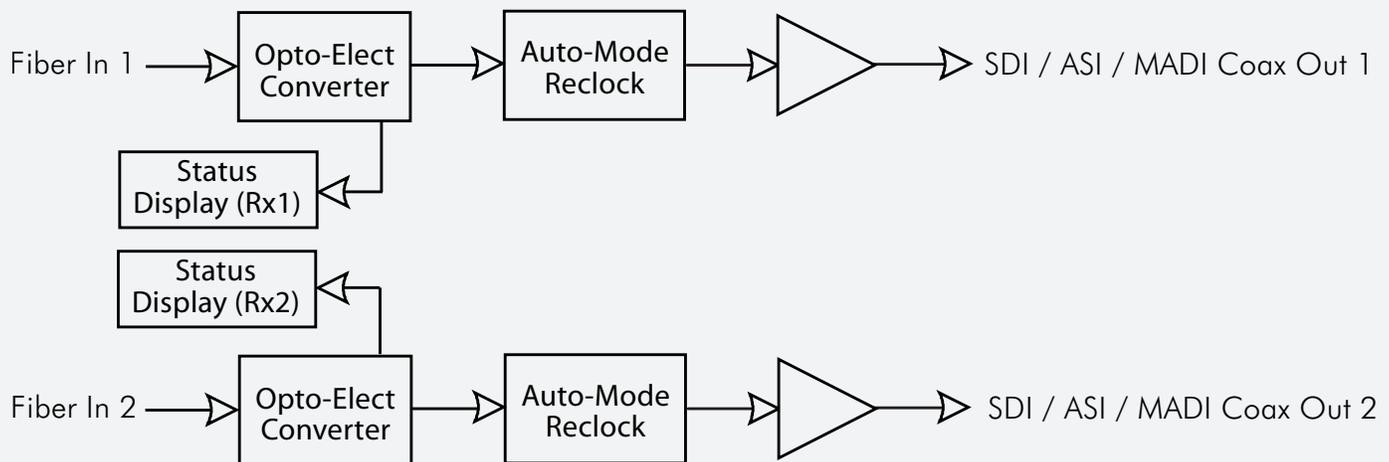
Dual independent fiber-to-coax paths – all in one easy to use throw-down box

Full support of 5Mbps thru 3Gbps transport conversions, with seamless auto-mode reclocking. No switches to set for different payloads.

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

Error-free pathological support. Full compatibility with other Blue Box™ Coax/Fiber units and Cobalt 9400-series openGear® frame-installed fiber cards

Powers from 5 to 16 VDC (AC adapter included). Directly compatible with low-voltage (+12 VDC) automotive/truck systems.



BBG-2OE-XX



» BLUE BOX COMPACT CONVERTER UNITS

BBG-EO » BLUE BOX COAX-TO-FIBER TRANSMITTER

Full support of 5Mbps thru 3Gbps transport conversions, with seamless auto-mode reclocking. No switches to set for different payloads.

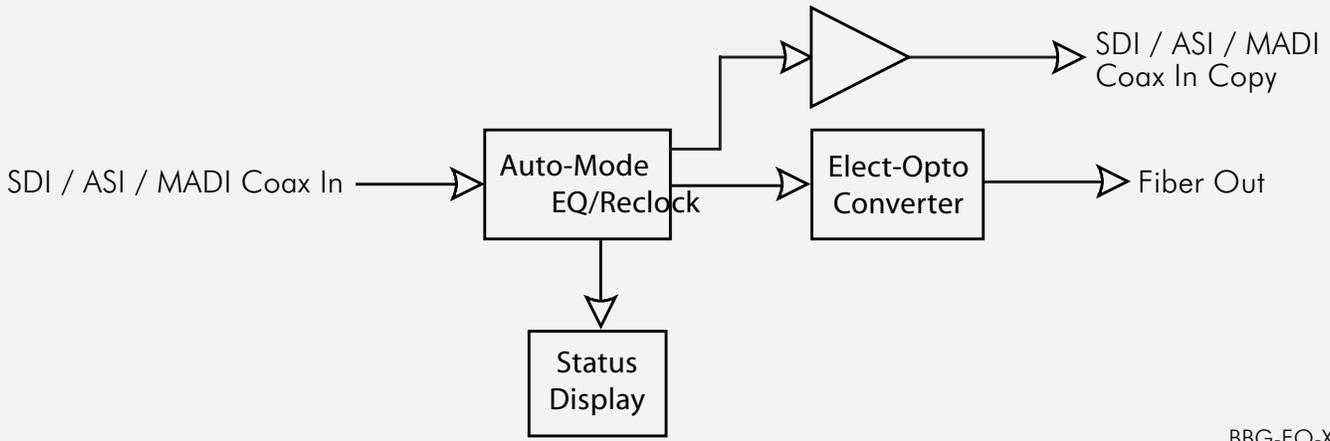
Compatible with SMPTE 424M, 292M, 259M, 310M, M2S, DVB-ASI, and MADI audio

Error-free pathological support. Full compatibility with other Blue Box™ Coax/Fiber units and Cobalt 9400-series openGear® frame-installed fiber cards

Auxiliary reclocked coax BNC input copy output

Small rugged portable standalone package ideal for portable installations

Powers from 5 to 16 VDC (AC adapter included). Directly compatible with low-voltage (+12 VDC) automotive/truck systems.



BBG-EO-XX

BBG-2EO » BLUE BOX DUAL COAX-TO-FIBER TRANSMITTER

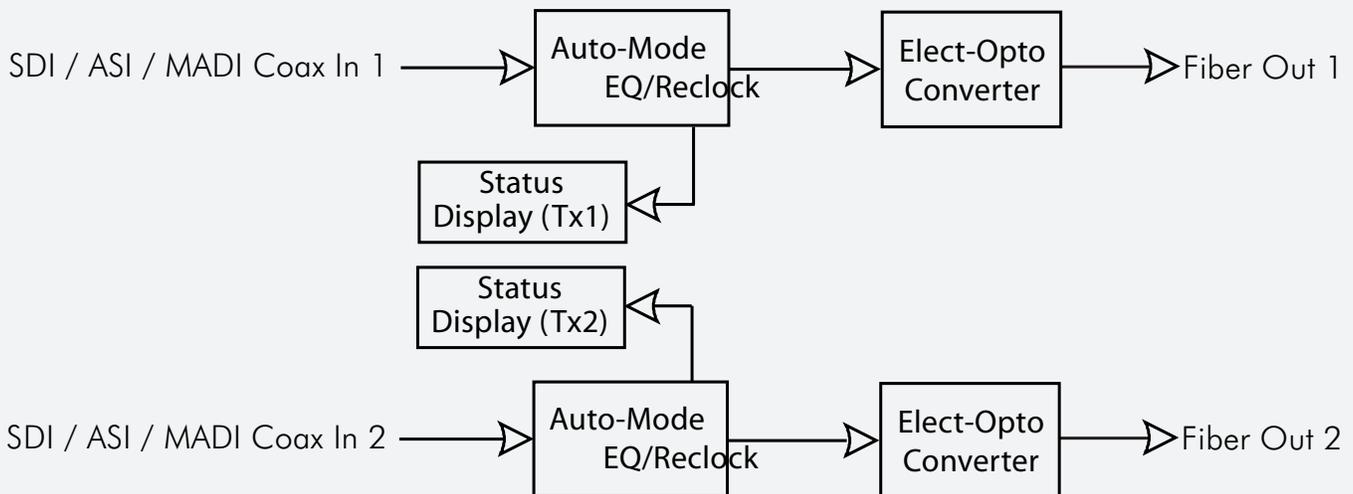
Dual independent coax-to-fiber paths – all in one easy to use throw-down box

Full support of 5Mbps thru 3Gbps transport conversions, with seamless auto-mode reclocking. No switches to set for different payloads.

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

Error-free pathological support. Full compatibility with other Blue Box™ Coax/Fiber units and Cobalt 9400-series openGear® frame-installed fiber cards

Powers from 5 to 16 VDC (AC adapter included). Directly compatible with low-voltage (+12 VDC) automotive/truck systems.



BBG-2EO-XX



» BLUE BOX COMPACT CONVERTER UNITS

BBG-EOE » BLUE BOX COAX/FIBER TRANSCEIVER

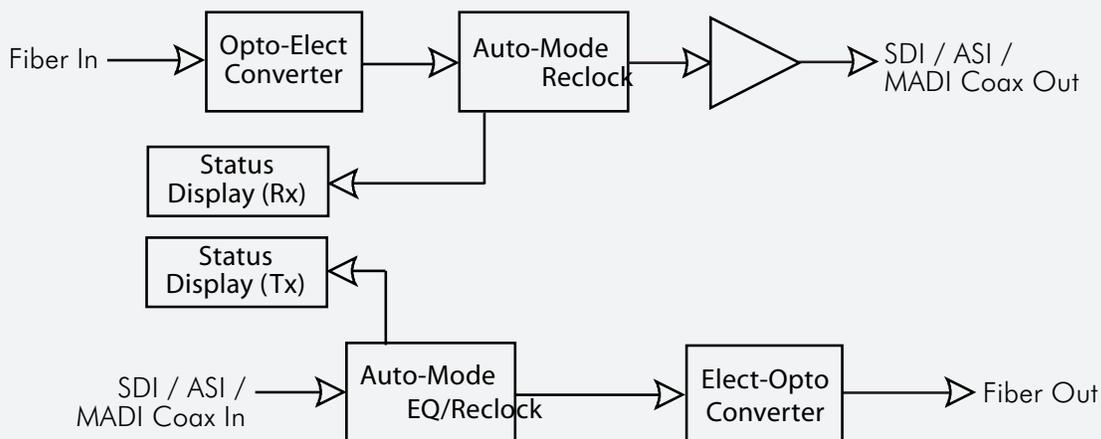
Independent companion fiber Rx and Tx paths – all in one easy to use throw-down box

Full support of 5Mbps thru 3Gbps transport conversions, with seamless auto-mode reclocking. No switches to set for different payloads.

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

Error-free pathological support. Full compatibility with other Blue Box™ Coax/Fiber units and Cobalt 9400-series openGear® frame-installed fiber cards

Powers from 5 to 16 VDC (AC adapter included). Directly compatible with low-voltage (+12 VDC) automotive/truck systems.



BBG-EOOE-XX

BBG-OEO » BLUE BOX FIBER REGENERATOR

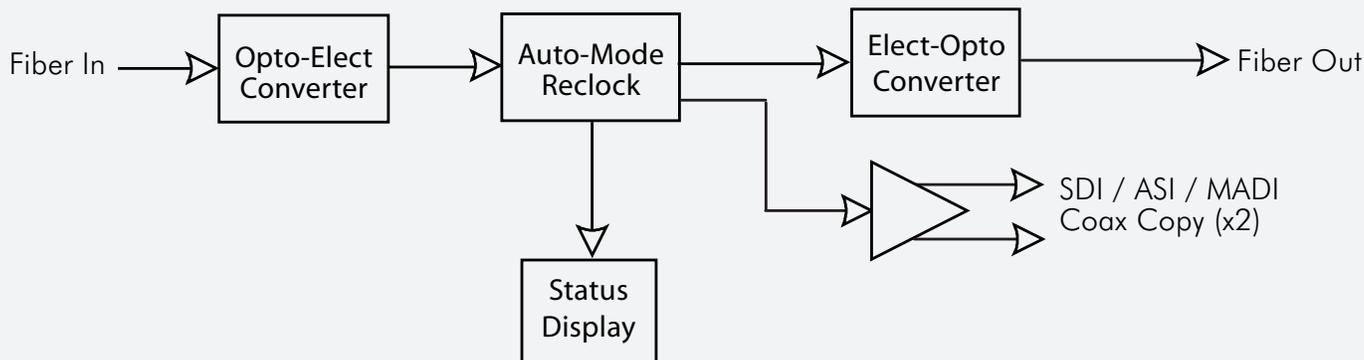
Full support of 5Mbps thru 3Gbps transport conversions, with seamless auto-mode reclocking. No switches to set for different payloads.

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

Dual BNC reclock/regen outputs

Error-free pathological support. Full compatibility with other Blue Box™ Coax/Fiber units and Cobalt 9400-series openGear® frame-installed fiber cards

Powers from 5 to 16 VDC (AC adapter included). Directly compatible with low-voltage (+12 VDC) automotive/truck systems.



BBG-OEO-XX



» BLUE BOX COMPACT FIBER TRANSPORT UNITS

	BBG-0E BLUE BOX FIBER-TO-COAX RECEIVER	BBG-20E BLUE BOX DUAL FIBER-TO-COAX RECEIVER	BBG-E0 BLUE BOX COAX-TO-FIBER RECEIVER	BBG-2E0 BLUE BOX DUAL COAX-TO-FIBER TRANSMITTER	BBG-E00E BLUE BOX COAX/FIBER TRANSCIEVER	BBG-0E0 BLUE BOX FIBER REGENERATOR
Specifications						
Standards/Data:	SMPTE 424M, 292M, 259M, 344M, 305M, DVB-ASI					
Rates Supported:	5Mbps to 3Gbps pathological pattern operation. (All models do not support AES-3id audio or other standards using data rates < 5Mbps.					
Inputs:	(1) Fiber FC, ST, or LC	(2) Fiber FC, ST, or LC	(1) 75Ω BNC	(2) 75Ω BNC	(1) 75Ω BNC (1) Fiber FC, ST, or LC	(1) Fiber FC, ST, or LC
Outputs:	(2) 75Ω BNC	(2) 75Ω BNC	(1) Fiber FC, ST, or LC (1) 75Ω BNC reclock copy	(2) Fiber FC, ST, or LC	(1) 75Ω BNC (1) Fiber FC, ST, or LC	(1) Fiber FC, ST, or LC (2) 75Ω BNC Regen
Power:	5 VDC – 16 VDC, <5 W (Includes Cobalt PS-4 AC Adapter)					
Dimensions (WxHxD):	5.0" x 2.9" x 1.1" (including connector projections) (127 x 74 x 28 mm)					

» ORDERING INFORMATION

BLUE BOX FIBER-TO-COAX RECEIVER

BBG-0E-FC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Receiver (Type FC fiber connector)
BBG-0E-ST	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Receiver (Type ST fiber connector)
BBG-0E-LC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Receiver (Type LC fiber connector)

BLUE BOX DUAL FIBER-TO-COAX RECEIVER

BBG-20E-FC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Receiver (Type FC fiber connectors)
BBG-20E-ST	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Receiver (Type ST fiber connectors)
BBG-20E-LC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Receiver (Type LC fiber connectors)

BLUE BOX DUAL COAX-TO-FIBER TRANSMITTER

BBG-2E0-FC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Transmitter (Type FC fiber connectors)
BBG-2E0-ST	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Transmitter (Type ST fiber connectors)
BBG-2E0-LC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Transmitter (Type LC fiber connectors)

BLUE BOX COAX-TO-FIBER TRANSMITTER

BBG-E0-FC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transmitter (Type FC fiber connector)
BBG-E0-ST	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transmitter (Type ST fiber connector)
BBG-E0-LC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transmitter (Type LC fiber connector)

BLUE BOX COAX/FIBER TRANSCIEVER

BBG-E00E-FC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transciever (Type FC fiber connectors)
BBG-E00E-ST	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transciever (Type ST fiber connectors)
BBG-E00E-LC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Transciever (Type LC fiber connectors)

BLUE BOX FIBER REGENERATOR

BBG-0E0-FC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Regenerator (Type FC fiber connectors)
BBG-0E0-ST	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Regenerator (Type ST fiber connectors)
BBG-0E0-LC	3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Transport Regenerator (Type LC fiber connectors)



BBG-F-TO-H » 3G/HD/SD-SDI FIBER OPTIC-TO-HDMI CONVERTER

The new Blue Box Fiber-To-HDMI (BBG F-to-H) throw-down converter unit is a new part of the Blue Box Group™ of compact, rugged, and portable converter boxes. BBG F-to-H offers a compact throwdown unit that provides direct fiber-to-HDMI conversion and much more.

The flexible built-in crosspoint and flexible I/O allows BBG F-to-H to also act as a fiber regen while providing an HDMI output. The BBG F-to-H also can receive a coax SDI input (SMPTE 259M, 292M, and 424M) and in turn provide an HDMI and a fiber output. BBG F-to-H can also provide a coax SDI output while converting fiber to HDMI. A convenience stereo analog audio de-embed output is also provided.

» FEATURES

Flexible crosspoint and multiple inputs/outputs provide fiber-to-HDMI, SDI-to-fiber, and fiber regen conversions.

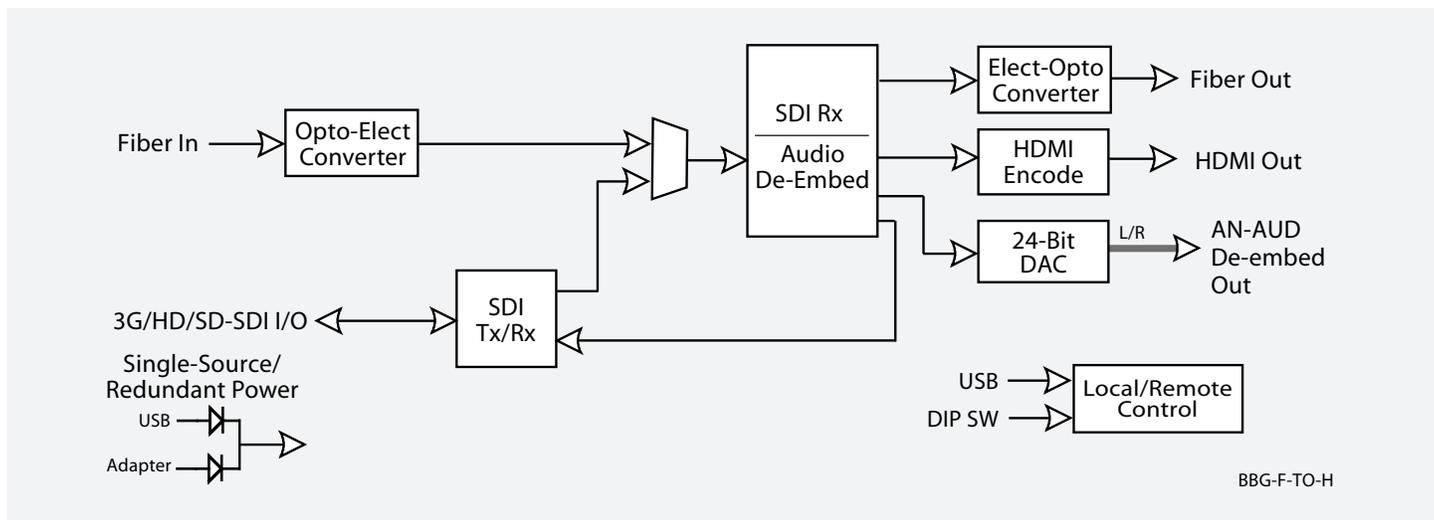
Direct conversion to HDMI from SMPTE 259M, 292M and 424M SDI.

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.

Compact size and low weight design easily affixes directly to camera or host device chassis

Singlemode fiber link distance >10 km (3Gbps), >20 km (1.5Gbps), and >35 km (270Mbps). Multimode typically > 200 m.

Rugged construction backed with a five-year warranty



» SPECIFICATIONS

Standards supported

SMPTE 259M, 292M, 424M

Inputs/Outputs

- (1) Fiber input. FC, ST, or LC connectors per ordered configuration (see Ordering Info).
- (1) Fiber regen output. FC, ST, or LC connectors per ordered configuration (see Ordering Info).
- (1) SDI I/O (mode user selectable)
- HDMI output (HDMI 1.4a compliant)

Stereo analog audio out (L/R unbalanced pair via 3.5mm TRS jack)

Audio conversion format

- 48 kHz sampling, 24-bit
- 8-Ch HDMI to SDI groups 1 and 2

Power Source

Power-sourced directly from host equipment USB port. Converter can also be powered using corded AC adapter (included)

Power

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

Dimensions (WxHxD)

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

» ORDERING INFORMATION

BBG-F-TO-H-FC 3G/HD/SD-SDI Fiber Optic-to-HDMI Converter (Type FC fiber connector)

BBG-F-TO-H-LC 3G/HD/SD-SDI Fiber Optic-to-HDMI Converter (Type LC fiber connector)

BBG-F-TO-H-ST 3G/HD/SD-SDI Fiber Optic-to-HDMI Converter (Type ST fiber connector)



BBG-H-TO-F » 3G/HD/SD-SDI HDMI-TO-FIBER OPTIC CONVERTER



**AVAILABLE
DECEMBER/2014**

The new Blue Box HDMI-to-Fiber (BBG H-To-F) throw-down converter unit is a new part of the Blue Box Group™ of compact, rugged, and portable converter boxes. BBG H-to-F offers a compact throwdown unit that provides direct HDMI-to-fiber conversion and much more.

The flexible built-in crosspoint and flexible I/O allows BBG H-to-F to also convert a coax 3G/HD/SD-SDI input to a fiber output. A stereo analog audio embed input is also provided.

» FEATURES

Flexible crosspoint and multiple inputs/outputs provide HDMI-to-fiber or coax SDI-to-fiber conversions.

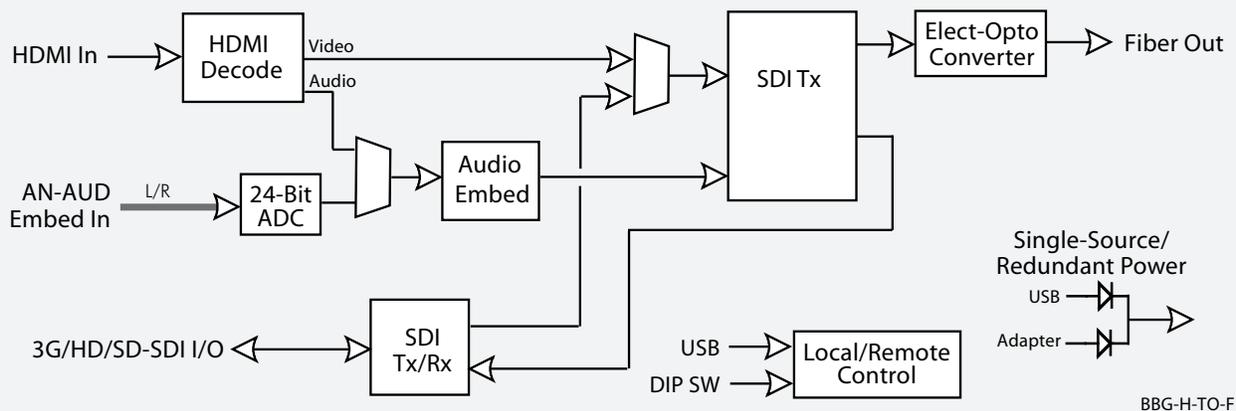
Direct conversion from HDMI to SMPTE 259M, 292M and 424M SDI.

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.

Compact size and low weight design easily affixes directly to camera or host device chassis

Singlemode fiber link distance >10 km (3Gbps), >20 km (1.5Gbps), and >35 km (270Mbps). Multimode typically > 200 m.

Rugged construction backed with a five-year warranty



» SPECIFICATIONS

Standards supported

SMPTE 259M, 292M, 424M

Inputs/Outputs

- HDMI input (HDMI 1.4a compliant)
- (1) Fiber output. FC, ST, or LC connectors per ordered configuration (see Ordering Info).
- Stereo analog audio in (L/R unbalanced pair via 3.5mm TRS jack)
- (1) SDI I/O (mode user selectable)

Audio conversion format

48 kHz sampling, 24-bit
8-Ch HDMI to SDI groups 1 and 2

Power Source

Power-sourced directly from host equipment USB port. Converter can also be powered using corded AC adapter (included)

Power

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

Dimensions (WxHxD)

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

» ORDERING INFORMATION

BBG-H-TO-F-FC 3G/HD/SD-SDI HDMI-To-Fiber Optic Converter (Type FC fiber connector)

BBG-H-TO-F-LC 3G/HD/SD-SDI HDMI-To-Fiber Optic Converter (Type LC fiber connector)

BBG-H-TO-F-ST 3G/HD/SD-SDI HDMI-To-Fiber Optic Converter (Type ST fiber connector)