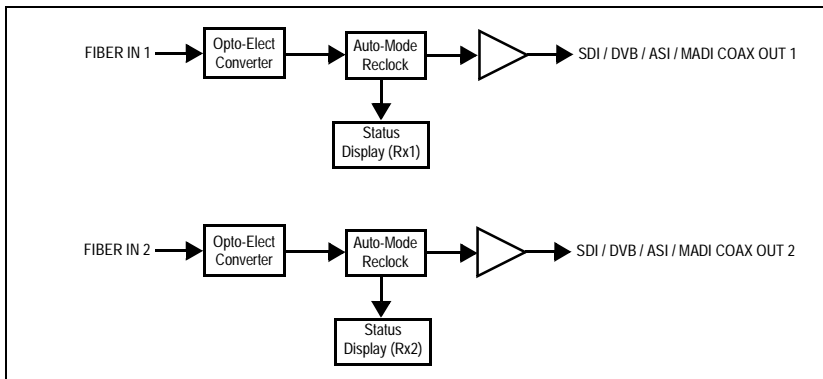# Dual Fiber-To-Coax (2OE) Converter

3G/HD/SD-SDI / DVB / ASI / MADI
Fiber Optic Dual Transport Receiver

The **BlueBox™ Dual Fiber-To-Coax Converter** (hereinafter called "BlueBox™ Dual Fiber>Coax") provides a small "throwdown" package that supports SMPTE 424M, 292M, and 259M as well as DVB, ASI, and MADI audio on two independent fiber-to-coax paths. Auto-mode reclocking automatically sets to the signal type being received (unrecognized formats are safely passed without reclocking). Its wide operating range (from 5Mbps to 3Gbps) flexibly supports most professional digital serial communications. Fully error-free pathological pattern operation is fully compatible with professional fiber video interfaces.

Note: BlueBox™ Dual Fiber>Coax does not support AES-3id transports.

The unit receives its DC power from external 9 - 16 VDC sources or from the supplied AC adapter.

Connecting BlueBox™ Dual Fiber > Coax

1 Connect BlueBox™ Dual Fiber>Coax to DC power using the supplied AC adapter.

2. Remove any protective caps on fiber cables and/or input receptacles. Connect Fiber input and BNC coax output to channel 1 and/or channel 2 input/output. This provides the basic conversion connections. Unused connections do not require termination.

CLASS 1 LASER PRODUCT

IEC 60825-1:2007

Caution - INVISIBLE LASER RADIATION. AVOID EXPOSURE TO THE BEAM.

Status Indicators

BlueBox™ Dual Fiber>Coax has a **Status** and Lock LEDs for each input channel on the side of the unit which function as follows:

• **STATUS** – For each channel, indicates power is OK. **Red** indicates no lock to input; **Green** indicates lock to valid fiber input.

• **3G / HD / SD Lock Indicators** – For each channel, three LEDs respectively indicate, where applicable, lock to recognized SMPTE 424M, 292M, or 259M formats. (For other data, these LEDs will not be lit.)

Specifications

Item	Description/Specification
Part Numbers/ Nomenclature	BlueBox™ Dual Fiber-To-Coax 3G/HD/SD-SDI / DVB / ASI / MADI Fiber Optic Dual Transport Receiver: - BBG-2OE-FC (Type FC fiber connector) - BBG-2OE-ST (Type ST fiber connector) - BBG-2OE-LC (Type LC fiber connector)
Standards/Data Rates supported:	SMPTE 424M, 292M, 259M, 344M, 305M, DVB-ASI 5Mbps to 3Gbps pathological pattern operation (does not support AES-3id audio or other standards using data rates < 5Mbps)
Inputs:	(2) Fiber inputs. FC, ST, or LC connectors per ordered configuration Wavelength: 1310 nm Sensitivity: -20 dBm
Outputs:	(2) 75Ω BNC. Reclocking automatically engaged for recognized signal standards; bypassed for unrecognized standards. Return Loss: >18 dBm up to 270 MHz
Input, DC Power:	9 to 16 VDC, < 5 W; 5mm coaxial connector (AC adapter included)
Dimensions (WxHxD):	5.0" x 2.9" x 1.1" (including connector projections) (127 x 74 x 28 mm)

Warranty and Service Information

Cobalt Digital Inc. Limited Warranty

This product is warranted to be free from defects in material and workmanship for a period of five (5) years from the date of shipment to the original purchaser, except that 4000, 5000, 6000, 8000 and Blue Box series power supplies, and Dolby® modules (where applicable) are warranted to be free from defects in material and workmanship for a period of one (1) year.

Cobalt Digital Inc.'s ("Cobalt") sole obligation under this warranty shall be limited to, at its option, (i) the repair or (ii) replacement of the product, and the determination of whether a defect is covered under this limited warranty shall be made at the sole discretion of Cobalt.

This limited warranty applies only to the original end-purchaser of the product, and is not assignable or transferrable therefrom. This warranty is limited to defects in material and workmanship, and shall not apply to acts of God, accidents, or negligence on behalf of the purchaser, and shall be voided upon the misuse, abuse, alteration, or modification of the product. Only Cobalt authorized factory representatives are authorized to make repairs to the product, and any unauthorized attempt to repair this product shall immediately void the warranty. Please contact Cobalt Technical Support for more information.

To facilitate the resolution of warranty related issues, Cobalt recommends registering the product by completing and returning a product registration form. In the event of a warrantable defect, the purchaser shall notify Cobalt with a description of the problem, and Cobalt shall provide the purchaser with a Return Material Authorization ("RMA"). For return, defective products should be double boxed, and sufficiently protected, in the original packaging, or equivalent, and shipped to the Cobalt Factory Service Center, postage prepaid and insured for the purchase price. The purchaser should include the RMA number, description of the problem encountered, date purchased, name of dealer purchased from, and serial number with the shipment.

Cobalt Digital Inc. Factory Service Center

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