

BBG-1040-ACO » DUAL-INPUT MODULAR FRAMESYNC

with Auto-Changeover and Character Burn



The all-new Cobalt® BBG-1040-ACO Dual-Input Modular Framesync with Auto-Changeover and Character Burn provides a high-density standalone modular unit that offers unprecedented multi-input support, flexibility, and ease of use and integration. Multiple SDI input ports allow manual selection of input, or failover to alternate inputs (Auto-Changeover) on loss of input conditions as well as user-configurable subjective criteria such as black/frozen frame or audio silence. Quality Check allows failover to alternate inputs based on user-configurable subjective criteria such as black/frozen frame or audio silence. Two discrete character burn strings can be inserted on output video, with each string inserted as static text and/or insert only upon LOS. Import of user trouble slate graphics is also supported in addition to standard test pattern insert as an input LOS marker. A moving-box insertion can be enabled to serve as a dynamic raster confidence check even in cases where the input video image is static.

Timecode can be received and prioritized among any standard SMPTE embedded or audio LTC timecode, and in turn outputted and burned-in on the output video.

The BBG-1040-ACO uses a built-in web server that allows control/monitor over computers or smart devices from anywhere accessible over the web; no special apps or plug-ins are required for remote control. The compact 1/3-rack size of the BBG-1040-ACO allows 3 units to be installed in a 1RU space (an optional mounting tray is available that provides secure mounting of the units to a standard 19" frame). GPIO allows direct input routing control and status monitoring.

» FEATURES

Dual-input, with manual selection or intelligent Auto-Changeover failover. Latching relay bypass retains manual or failover input-to-output routing even in the event of power failure.

Auto-Changeover can be set to invoke failover for basic input loss as well as subjective failover based on black/frozen frame or audio silence. Threshold and hold-off are user configurable.

Dual independent burn-in text string insertion allows condition-based insertion (such as basic ID text for valid input and different text message for failover conditions)

Moving-box/motion insertion enable serves as a dynamic raster confidence check even when the input video image is static

Supports import of user trouble slate graphic file for LOS failover insertion

Timecode processing can prioritize, filter for, and convert between specific SMPTE embedded-video or audio LTC, with output/burn-in timecode using selected format

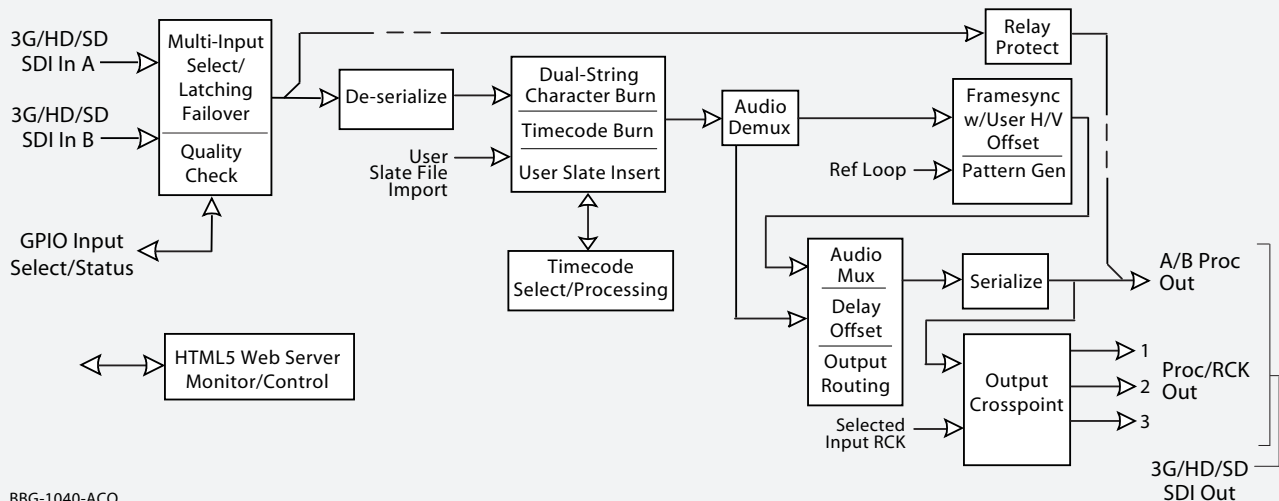
Framesync with full H/V offset and manual/LOS video pattern generator. Framesync can also convert raster format between 29.97/59.94 and 30/60 formats. Rear-panel looping reference connectors.

Full audio crosspoint with delay control available for all audio outputs.

Web-based user interface/remote control as well as front-panel LCD local control
Redundant power supply option

Compact footprint - up to 3 units in a 1RU space

Five-year warranty



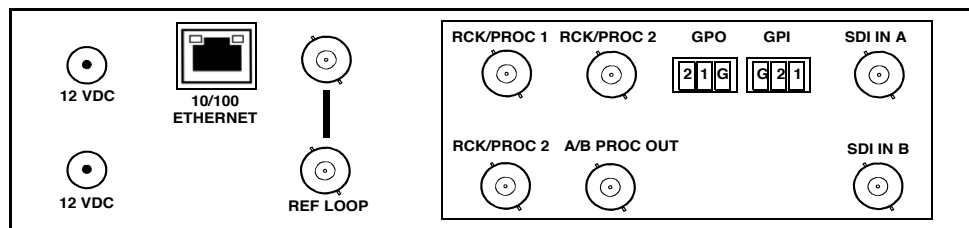
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» SPECIFICATIONS

<p>Power < 18 Watts. Power supplied by 12VDC AC adapter, universal input.</p>	<p>Input Select/Auto-Changeover Failover</p> <ul style="list-style-type: none"> - Manual selection (forced) of any input via web GUI/front panel controls or GPI. - Failover to alternate input on loss of target input. Failover invoked upon LOS or user configurable parametric criteria such as black/frozen frame or audio silence. - Black frame trigger configurable for black intensity threshold and persistence time. - Frozen frame trigger configurable for frozen percentage difference and persistence time. - Audio silence trigger configurable for dBFS floor threshold and persistence time. - Relay latching for manually or failover selected path retains routing in loss of power conditions. 	<p>Audio Output 16-ch embedded. User crosspoint allows routing of any embedded channel to any embedded channel output. Multi-frequency tone generator for each audio output. Downmix output available for any output channel pair. Master delay control; range of -33 msec to +3000 msec.</p>
<p>Video Input/Outputs SDI inputs: (2) 75Ω BNC SDI outputs: (1) 75Ω A/B BNC w/ RLY Bypass Protect. (3) DA 75Ω BNC; selectable as selected-input RCK or processed. Formats Supported: SMPTE 259M, SMPTE 292M, SMPTE 424M Receive Cable Length: 3G/HD/SD: 120/180/320 m (Belden 1694A) Return Loss: >15 dB up to 1.485 GHz; >10 dB up to 2.970 GHz Alignment Jitter: 3G/HD/SD: < 0.3/0.2/0.2 UI</p>	<p>Text Burn-In (2) independent strings supported. Independent insertions controls for enable/disable and enable upon LOS. User controls for text size and H/V position.</p>	<p>GPIO (2) GPI configurable to select input routing. (2) GPO configurable to invoke upon input selected.</p>
<p>Timecode Insertion/Burn-In Burn-in and embedded video output timecode selected via user controls from input video SMPTE embedded timecode and/or audio LTC. Burn-in enable/disable user controls. Configurable for burn-in string of seconds, seconds:frames, seconds:frames:field. User controls for text size and H/V position.</p>		<p>Control/Monitor Interface HTML5 web server/interface via rear-panel 100/1000 Ethernet port.</p>
		<p>Frame Reference Input Looping 2-BNC connection. SMPTE 170M/318M "Black Burst", SMPTE 274M/296M "Tri-Level" Return Loss: >35 dB up to 5.75 MHz</p>
		<p>Physical Dimensions (WxHxD): 5.7 x 1.4 x 14.7 in (14.5 x 3.5 x 37.3 cm) Dimensions include connector projections. Weight: 6 lb (2.8 kg)</p>



Note: A/B PROC OUT is the card processed output which uses either input SDI IN A or SDI IN B. This output uses relay latching to retain selected routing in the event of power loss regardless of whether a selection was manually invoked or by a unit-detected failover (for example, if an auto-changeover from A to B was invoked while active, routing of input B to this output is retained in the event of power loss).

RCK/PROC 1 thru RCK/PROC 3 are DA outputs which can be individually set as relocked or processed outputs of the currently-selected input. These outputs are not relay-equipped and will lose signal in the event of power loss.

» ORDERING INFORMATION

BBG-1040-ACO Dual-Input Modular Framesync with Auto-Changeover and Character Burn

BBG-1000-PS Redundant (n+1) Power Supply Module

+LTC Audio LTC I/O Option

BBG-1000-TRAY 1RU Mounting Tray (supports 3 units)