yellobrik™ CDH 1811

3Gbit SDI to HDMI Converter

- Supports SDI video inputs up to 3Gbit/s (1080p60)
- Automatic input standard and format detection
- Fiber input and output option
- Native input resolution HDMI video output
- Analog and AES audio outputs
- Select audio from 16 input channels
- Balanced professional analog audio outputs or unbalanced line level audio outputs
- Selectable Timecode burn in window
- Selectable Metadata overlay
- Input present LED indication
- Audio present LED indication

The CDH 1811 is a versatile, compact SDI to HDMI converter designed to combat a host of monitoring and display applications in Broadcast, Post Production and Pro A/V markets.

Convert any SDI video signal into a standard HDMI signal for monitoring and display. Optional fiber interface allows the module to be used for monitoring fiber connections and also function as a fiber converter. The HDMI output displays the native input resolution therefore no scaling artifacts are introduced.

Two channels of audio can be de-embedded from the incoming video signal and provided as digital AES outputs and analog audio signals. Balanced audio outputs have selectable full scale range presets. The two selected audio channels can also be embedded into the HDMI output, or 8 channels selected from the input signal (channels 1-8 or channels 9-16).

A selectable time-code burn in window makes the module ideal for editing applications, with a mode to also overlay key metadata information.

Option

OH-OTR-1 Fiber Transceiver Stick - Provides fiber input and re-clocked fiber loop output up to 10Km (6.2 miles) @ 3Gbits/s

Technical Specifications

SDI Input	1 x SDI video on 75 Ohm BNC connector
	SMPTE 424M, SMPTE 292M, SMPTE 259M
	Multi-standard operation from 270Mbit/s to 3Gbit/s SDTV (525/625) 720p and 1080p (23.98/24/25/29.97/30/50/59.94/60 Hz) 1080psf (23.98/24/25/29.97/30 Hz) 1080i (50/59.94/60 Hz)
	Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz
	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Optical Input	1 x fiber optic input. Singlemode (OH OTR 1 option) LC/UPC fiber connection (wavelength 1310nm). RX Sensitivity -19dBm
	SMPTE 297M - 2006
SDI Output	1 x SDI video on 75 Ohm BNC connector
	SMPTE 424M, SMPTE 292M, SMPTE 259M
	Multi-standard operation from 270Mbit/s to 3Gbit/s
Optical Output	1 x fiber optic output. Singlemode (OH OTR 1 option) LC/UPC fiber connection (wavelength 1310nm). TX Power -3dBm
	SMPTE 297M - 2006
	Max. distance 10Km (6.2 miles) @ 3Gbit/s (Singlemode)
HDMI Output	Version 1.4 (deep color) type A connector
	24 bit (3X8bit) and 30bit (3x10bit) deep color (R,G,B / Y,Cr,Cb / X,Y,Z)
	2 or 8 channel audio embedding (selectable)
AES Output	AES3id on 75 Ohm BNC, 2 channels (selectable)
Audio Output	Left and right analog audio using 1/4 inch Jack plugs
	Balanced mode with 24,22,20,18,15,12 dBu full scale (selectable)
	Unbalanced mode with (line level) at -10 dBv
	1/4 inch Jack Plug to RCA connection adapters supplied
Power	+12VDC power supply (included)
Size	105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")
Model #	CDH 1811
Includes	Module, 12V DC power supply, RCA adapters and mounting brackets

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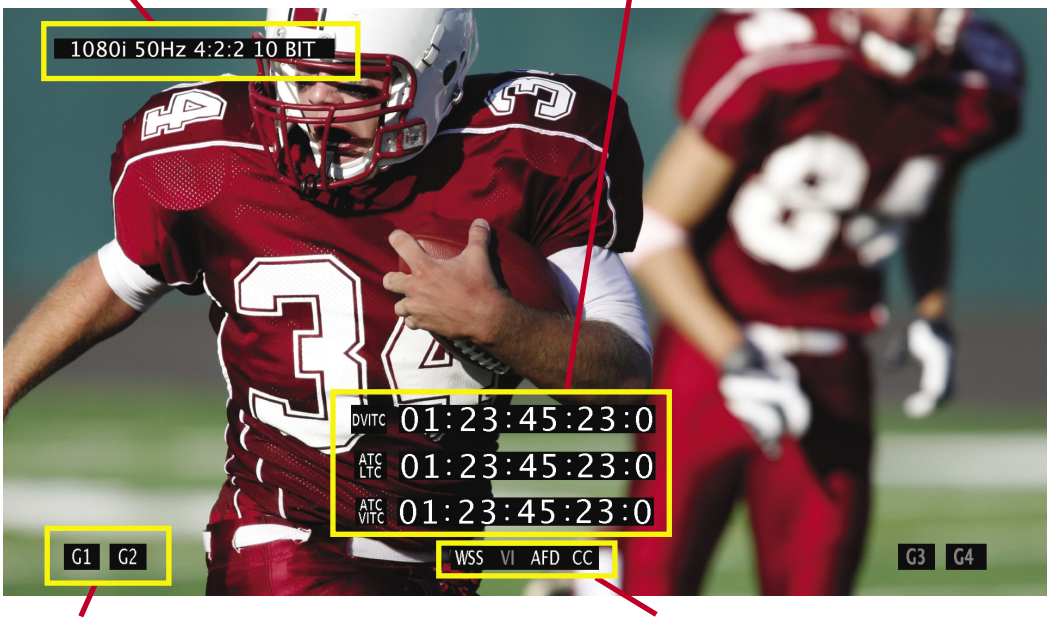
Timecode and Metadata Overlay

It is possible to overlay timecode burn-in windows, indicate audio presence and also detect the presence of key metadata parameters in the incoming SDI stream. Modes are OFF (no overlay on image), Timecode ON (display of timecode only), Metadata ON (Metadata only) or both ON - (both modes ON is shown below).

SDI Input format, resolution and bit depth

Timecode Burn-in. (*The module can detect and display the following Timecode formats: VITC, LTC and DV Timecode. Only the formats present in the SDI input will be displayed).*

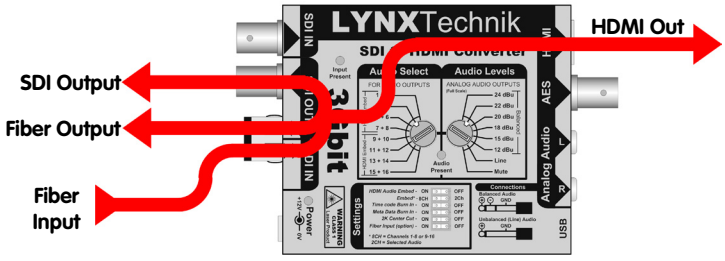


G1-G4 Audio presence detection
(G = SDI audio group = 4 channels)

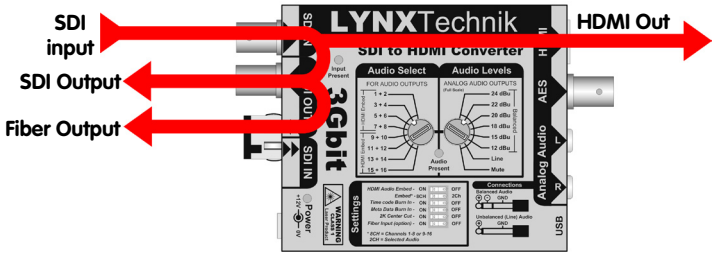
WSS (Wide Screen Signal), V1, AFD and CC (Closed Captions)
Highlighted if present

OH OTR 1 - Fiber Transceiver Option

This option allows the module to be used with a copper SDI input or a fiber input signal. Depending on the input mode selected (by using the fiber input option dip switch), the module will provide both a fiber and copper SDI output of the selected input signal. Fiber outputs can be transmitted up to 10Km (6.2miles) @ 3Gbit/s. Signal flow is shown below:



Fiber Input Option Dip Switch = ON



Fiber Input Option Dip Switch = OFF

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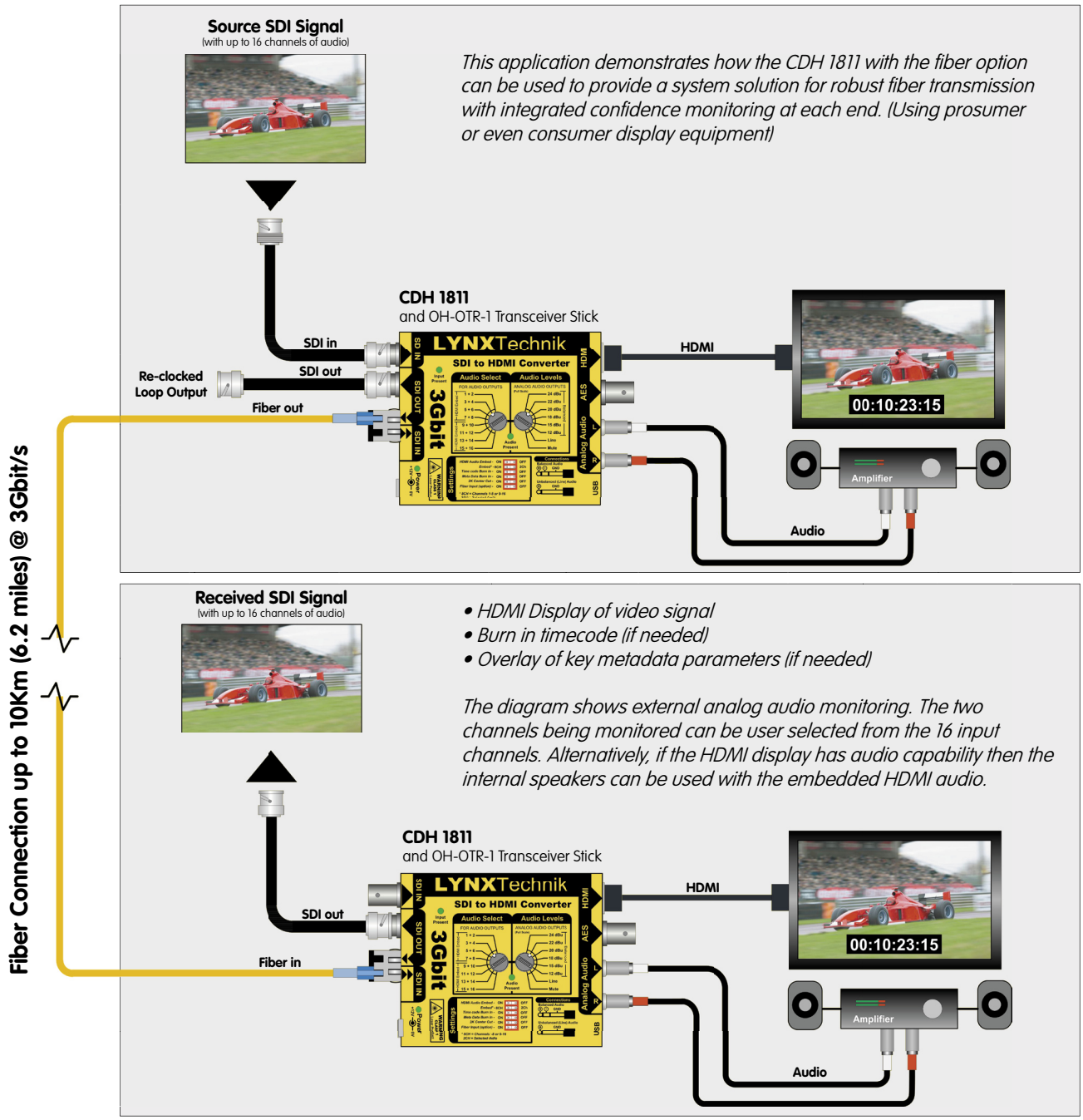
Fiber Application Using CDH 1811 SDI to HDMI Converter

Sample application using two CDH 1811 modules for SDI fiber optic transmission up to 10Km (6.2 miles) @3Gbit/s with integrated signal confidence monitoring at each end.



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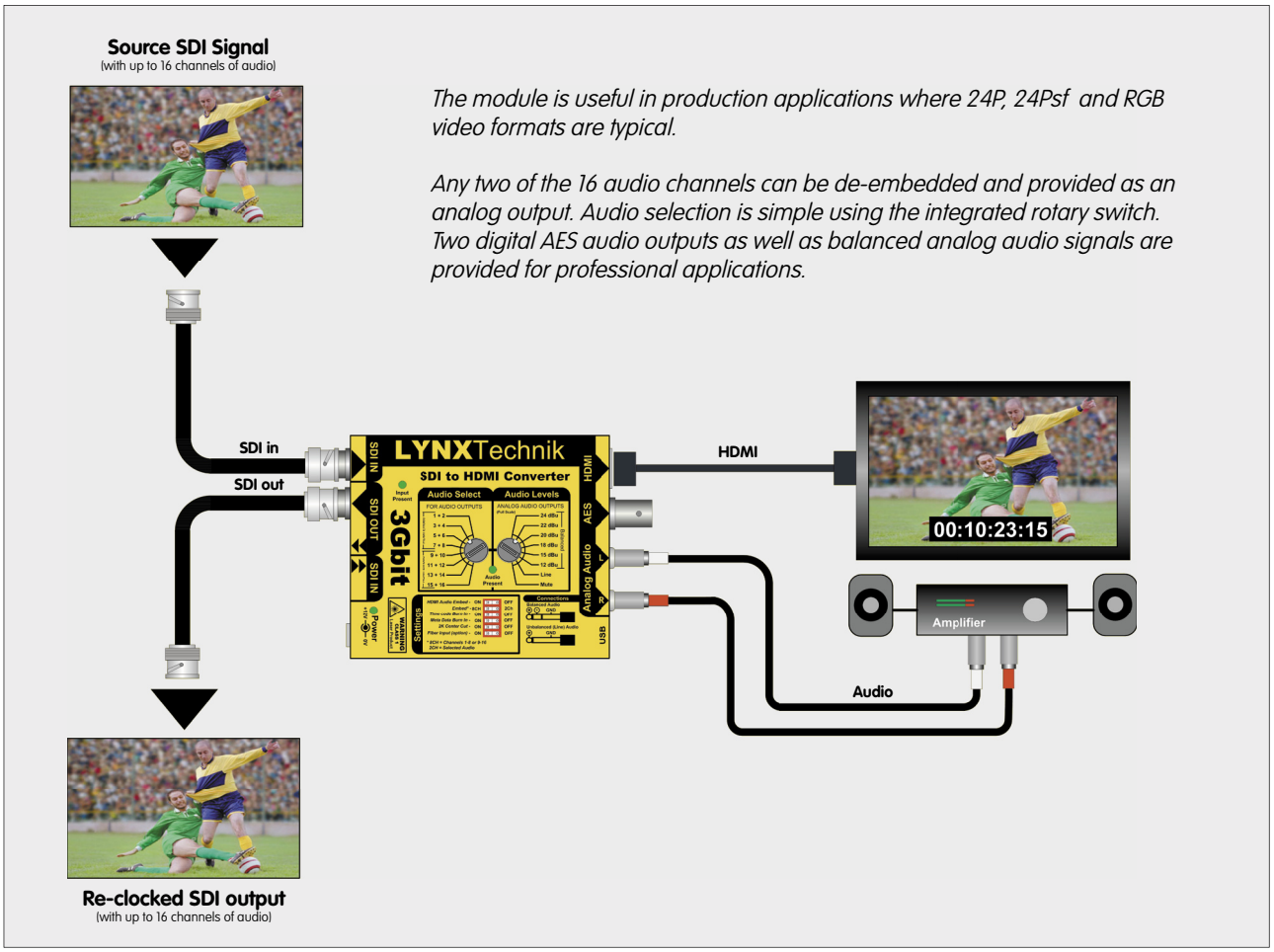
Application Using CDH 1811 SDI to HDMI Converter

Typical application for the CDH 1811 module. Module is "looped" into an SDI signal path providing a HDMI monitoring output.



Ordering Information

CDH 1811 - SDI to HDMI Converter
The CDH 1811 Yellobrik is supplied in its own plastic transport case and includes the following items:

- CDH 1811 Yellobrik Module
- Power Supply
- Module mounting brackets
- 2 x Phono to RCA audio adapters
- Quick reference guide
- 2 year warranty registration card

Option

OH-OTR-1
Fiber Optic Transceiver Stick

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