Application Examples

4K Quad Link 2SI/SQD to 12G SDI Conversion



Quad Link 2SI / SQD ► Single Link Converter

12G SDI to 4K Ouad Conversion



Single Link ▶ Quad Link 2SI / SQD Converter

Distribution Mode 1 ▶ 5+1



1x Single Link Input ▶ 5x Single Link Output + 1x Fiber SFP



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Technical Specifications

SDI I/O

1 x dedicated SDI video input on BNC connector

2 x dedicated SDI video output on BNC connector (1 x Loop/Processed output)

3 x switchable SDI video in-/outputs on BNC connector

SMPTE 292M, SMPTE 424M, SMPTE 2081-1, SMPTE 2082-1

Multi-standard operation from 1.5G to 12G

720p (23.98/24/25/29.97/30/50/59.94/60 Hz)*

(23.98/24/25/29.97/30 Hz)*

1080i (50/59.94/60 Hz)*

1080p (23.98*/24*/25*/29.97*/30*/50/59.94/60 Hz) (23.98/24/25/29.97/30/50/59.94/60 Hz) 2160p

to 6GHz to 12GHz to 1.5GHz to 3GHz **Electrical Return Loss** >10dB >7dB >4dB >15dB 1.5Gbit/s 3Gbit/s 6Gbit/s 12Gbit/s Automatic cable EO 200m 150m 90m 85m Belden 1694A Belden 4794R

Fiber I/O 1 x fiber optic input and output (optional, see table)

SMPTE 297M - 2006

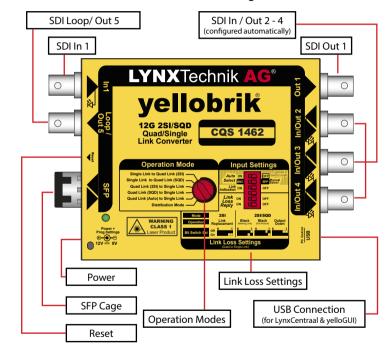
+12VDC @ 13.24W nominal (incl. SFP) - (7-24VDC input range) **Power**

We are constantly adding more yellobrik modules. Please visit our website for the latest product updates. www.lynx-technik.com

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CQS 1462

Bidirectional 2SI / SQD Quad Link to 12G Single Link Converter







^{*} Only supported in Distribution Mode

Connections

This module has six BNC connectors and one SFP cage. One for dedicated input, one for dedicated output, one for loop or dedicated output, and three switchable in/outputs.

The optical port (SFP slot) can be used for transceiver SFPs (i.e. OH-TR-12G-LC) as well as single Transmitter or Receiver SFPs.

Operation Modes

Operation Mode settings can be changed on the device itself or in our control software.

- 6G/12G SDI Single Link ► 4 x 1.5G/3G SDI Quad Link (2SI)
- 6G/12G SDI Single Link ► 4 x 1.5G/3G Quad Link (SQD)
- 4 x 1.5G/3G SDI Ouad Link (2SI) ► 6G/12G SDI Single Link
- 4 x 1.5G/3G SDI Ouad Link (SOD) ► 6G/12G SDI Single Link
- · Auto Quad Link to Single Link
- Distribution mode



Input Settings

Link ON Loss Reply ON

SFP S

In Distribution Mode the COS 1462 can be used for distributing SDI signals from Input 1 (BNC/SFP) to the five Outputs (BNC) as well as the fiber Output (SFP).

Operation Modes

Following Input Settings are available:

- Auto Select: Switch Automatic and Manual Selection of input sources (lanored in auad to single modes)
- Link Indication: Add numbered overlay for outputs to indicate link source.
- Link Loss Reply: Choose how to respond to missing links. » Mode shows in which modes support which Operations.
- » Operations are:

Link Replacement (only 2SI output) duplicates input link 1 to preserve image brightness. Black "Missing Link" replace missing link with frame black (reduces the image brightness). Black "Full Picture" output full frame black image

if a single link is lost.

Output Down turns off the output entirely (no SDI output signal).

» Bit Switch Settings visualizes how to set the DIP switches.

Power

The module requires a 12V DC power input and the LED confirms when power

Module LEDs

The module has several LEDs included to indicate status:

SDI Present LED (electrical and fiber input have individual LEDs)

Valid SDI signal

No valid or missing SDI signal

Power / Prog Setting LED

Power OK and no internal programmed settings are present

Power OK and control software exclusive settings are not at factory default*

"Locate" functionality enabled via control software to identify physical module Power OK and physical settings are overwritten by software settings

Hardware malfunction (Fan Error, Overheating, etc.)

Power not present

Central Control Interface via USB

The USB connection on the module is for firmware updates and control via the Lynx Centraal or yelloGUI software applications.

Please register to connect to our update server [Database settings > Registration and you will receive the latest firmware updates **vello**GUI automatically. Check in the "update" section on Lynx Centraal or look for the red update flag in yelloGUI.

Firmware updates and our control software are free of charge.



Fiber I/O Options

The optional fiber I/O SFP modules plug into the side of the yellobrik and are ideal to bridge longer distances. We offer Singlemode CWDM versions (in 18 different wavelengths according to ITU-T G694.2), as well as Singlemode. This module can use TR (Transceiver), TX (Transmitter), RX (Receiver) SFPs.

	Option #	Wavelength	TX Power	RX Sensitivity	Max Distance
	OH-TR-12G-LC	1310 nm	-5 +0.5dBm	6 - 12G: -10dBm 1.5 - 3G: -14dBm	10km (6.2miles)*
	OH-TR-12G-XXXX-LC	1270 - 1610nm	-2 +3dBm	6 - 12G: -10dBm 1.5 - 3G: -14dBm	10km (6.2miles)*
	OH-TX-12G-LC	1310nm	-5 +0.5dBm	-	10km (6.2miles)*
	OH-RX-12G-LC	1310nm	-	6 - 12G: -10dBm	
				3G: -14dBm	10km (6.2miles)*
				1.5G:-16dBm	

Power Lead Strain Relief

The module (different module shown here) has a small hole in the case located above the power connection. This prevents the power lead from being accidentally pulled out. Use the supplied tie-wrap and secure the lead, as shown below.





Mounting Solutions

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any surface or on 19" rack rails.





The optional RFR 1200 rack mount can be used to mount up to 14 yellobrik modules permanently. In addition, the RFR 1200 can provide full power redundancy for all mounted yellobriks.





is connected. A power supply is provided, however, if you use your own power supply, please provide a clean 12V DC power source(or between 7 and 24V DC).

^{*}The module can be reset to factory defaults by using the reset switch