# **6G-SDI 4K External Sync**

For Sony FCB-ER8300,

New SONY FCB-ER8530 / FCB-ER8550 /

FCB-ES8230





TWIGA has designed the first 6G-SDI External Sync interface board for NEW SONY 4K camera blocks.

Introducing the latest edition to our 4K module range: the 6G-SDI External Sync brings in a convenient and compatible form factor 4k possibility to a variety of applications where quality and performance is a premium.



### **FEATURES**

- o 6G-SDI (SMPTE ST-2081) digital video output
- o Supports 4k resolution up to 2160p25/29.97Hz
- o Support External Sync Input
- Support External Sync Output (optional)
- o Board and camera control via RS232/TTL
- o BNC connector- MCX connector option
- o Add-on connector for custom functions
- o Compact & sustainable

#### External Sync capabilities

Twiga 6G-SDI Ext Sync supports External Synchronization input. It provides benefits to users in a multi-camera environment: broadcast application, image stitching, pulsed lighting sync or thermal/visible image overlapping.

#### Custom capabilities

Twiga 6G-SDI Ext Sync is based on a powerful Kintex-7 FPGA that allows real time scaling and enables you to implement your custom image processing algorithms.

Depending on your application, a board to board connector available at the back side of the board will allow you to develop additional custom functionalities.

#### Compact & sustainable solution

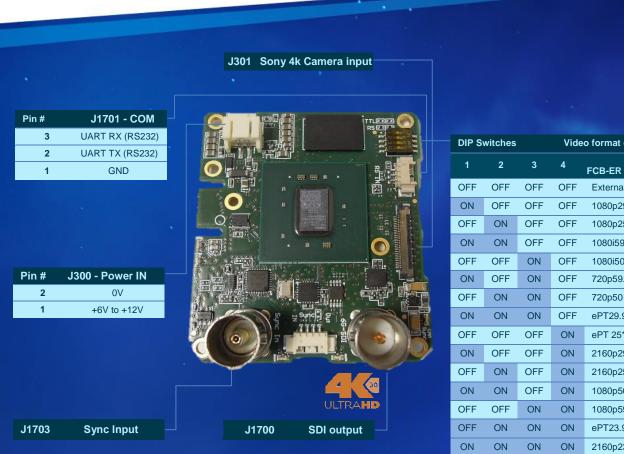
Highly compact the 6G-SDI Ext Sync module can be rearmounted on new Sony 4K range of cameras without hampering the mechanical integration.

Twiga 6G-SDI Ext Sync interface board has been designed to be offer industrial and sustainable solution for applications in critical areas that require a long life cycle.



## Onboard **Connectors**





DIP Switches			Video format configuration			
1	2	3	4	Sony FCB-ER range & ES8230		
OFF	OFF	OFF	OFF	External		
ON	OFF	OFF	OFF	1080p29.97*		
OFF	ON	OFF	OFF	1080p25*		
ON	ON	OFF	OFF	1080i59.94		
OFF	OFF	ON	OFF	1080i50		
ON	OFF	ON	OFF	720p59.94		
OFF	ON	ON	OFF	720p50		
ON	ON	ON	OFF	ePT29.97		
OFF	OFF	OFF	ON	ePT 25*		
ON	OFF	OFF	ON	2160p29.97		
OFF	ON	OFF	ON	2160p25		
ON	ON	OFF	ON	1080p50		
OFF	OFF	ON	ON	1080p59.94		
OFF	ON	ON	ON	ePT23.98		
ON	ON	ON	ON	2160p23.98		
*output indicates that the image is output 2 times						

P/N – TV10 0080	6G-SDI Ext Sync Interface board for Sony FCB-ER range & FCB-ES8230		
Functions	Specifications		
Digital video output	6G-SDI SMPTE-ST2081		
SDI output Connector	BNC by default - MCX (option)		
Sync input	Molex connector BNC by default – SMB or MCX (option)		
Video format	Up to 2160p29.97		
Video format configuration	DIP switches		
Camera communication & settings	VISCA – Default: RS232 level – TTL level (Option)		
Power supply	6 to 12 VDC, 6 W (including camera *)		
Operating temperature range	0°C to 60°C		
Regulation	EMC FCC part 15, PCB : UL 94 V0		
Dimensions (mm)	50 (H) x 57.5 (W) **		

\* Sony ER8550 Camera and video format set to 2160p29.97
\*\* The overall height of the board depends of the height of the connector used (BNC, MCX)

P/N - TV50 0008	Accessory set for TV10 0080		
Content			
USL20-30SS-012-C Cable assembly	✓		
2 way harness, 200mm long for power	✓		
3 way harness, 200mm long for communication	✓		
4 way harness, 200mm long for Ext Sync Option	✓		
6G-SDI output connector Options	BNC (Standard)	MCX(Option) P/N VOPTEM02	Without Connector (Option) P/N VOPTEM04





PB\_TWIGA\_6G-SDI 4K Ext Sync\_11 December 2019