



Synchronization Board User Manual

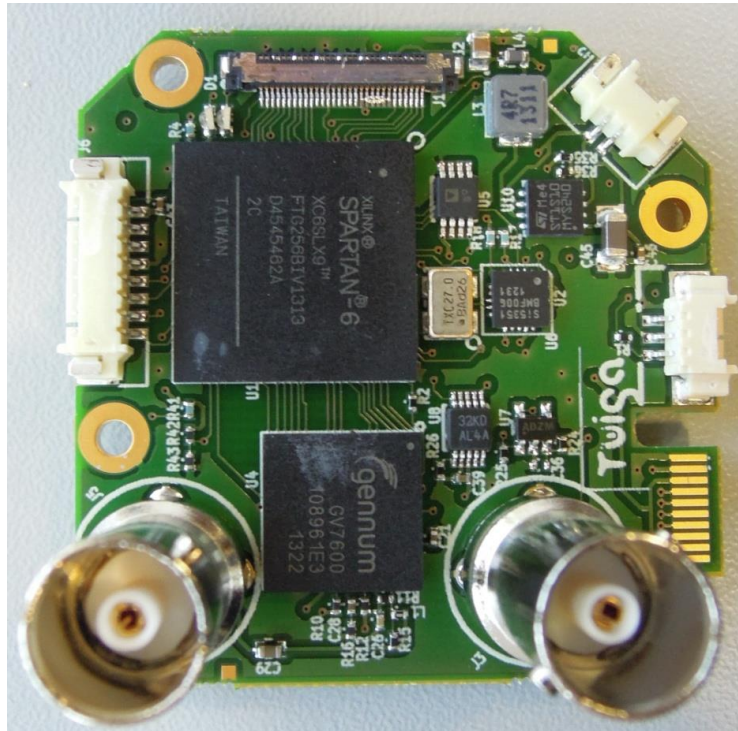


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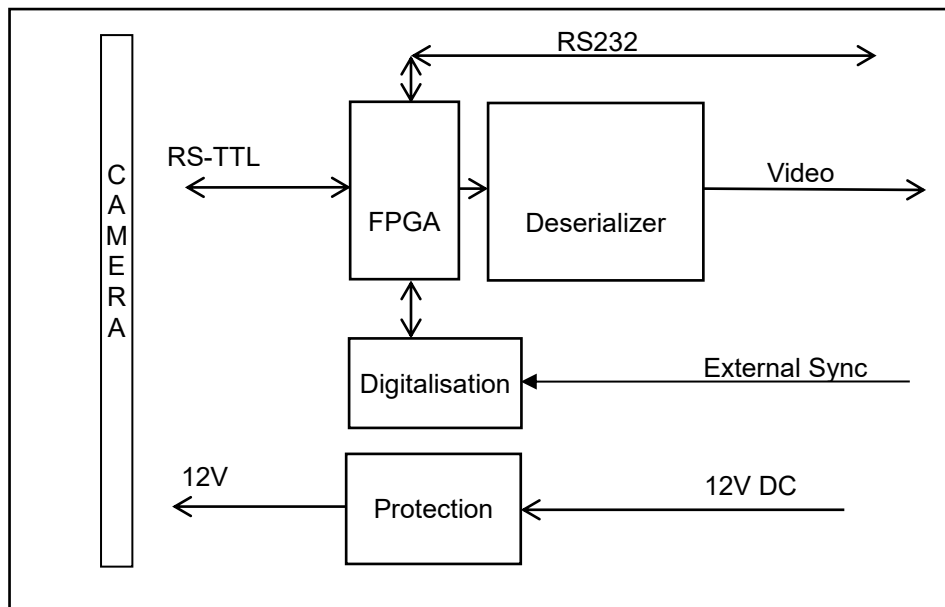
VERSIONS

Number	Date	
		Original

1- Presentation

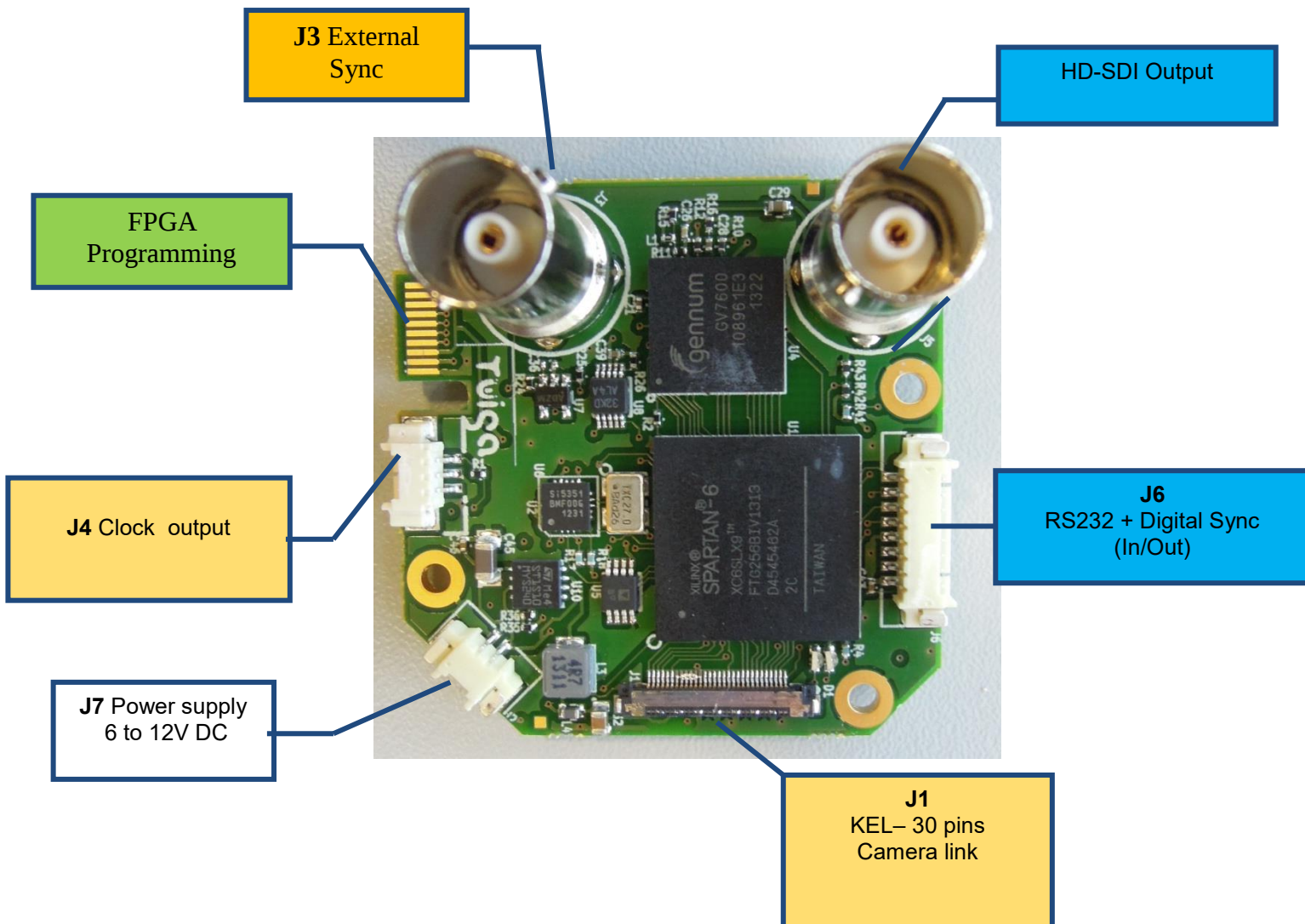
This electronic board allows to synchronize a SONY FCB EV camera with an external clock signal, and to connect the video with a monitor (HD-SDI).

2- Synoptic



3- Connection

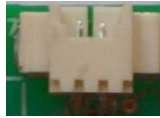
3.1- Location of connectors



4.2 Pin out of connectors

4.2.1 Power Supply (J7)

Connector reference : MOLEX 53261-0271



1	2
12VDC	0V-GND

4.2.2 Command (J2 and J4)

(J2) Connector reference : MOLEX 53261-0771 / 53261-0871



1	GND
2	TxD
3	Rcd
4	GND
5	VSync_Out
6	HSync_Out
7	VSync_In
8	HSync_In

(J4) Connector reference : MOLEX 53261-0371



1	Clock_OUT
2	GND
3	NC

J1 , camera connector

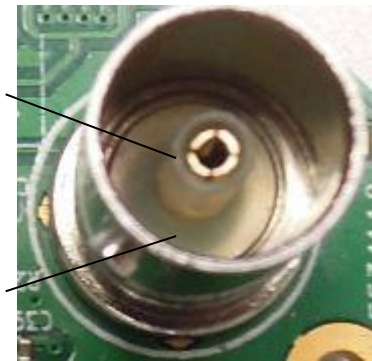
KEL USL00-30L



	EV
30	TX4-
29	TX4+
28	TX5-
27	TX5+
26	reset
25	NC
24	TX6-
23	TX6+
22	TX7-
21	TX7+
20	0V-GND
19	0V-GND
18	+V
17	+V
16	+V
15	+V
14	+V
13	RxD (TTL camera input)
12	TxD (TTL camera input)
11	0V-GND
10	TX0-
9	TX0+
8	TX1-
7	TX1+
6	TX2-
5	TX2+
4	TXCLKOUT-
3	TXCLKOUT+
2	TX3-
1	TX3+

4.2.4 HD video output (J5)

Connector BNC/SMB/MCX



2	GND
1	HD-SDI

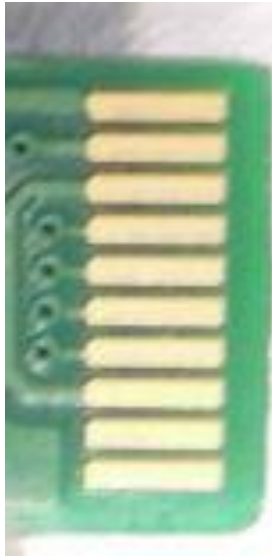
4.2.5 External Sync (J3)

Connector BNC/SMB/MCX



2	GND
1	ASync_In

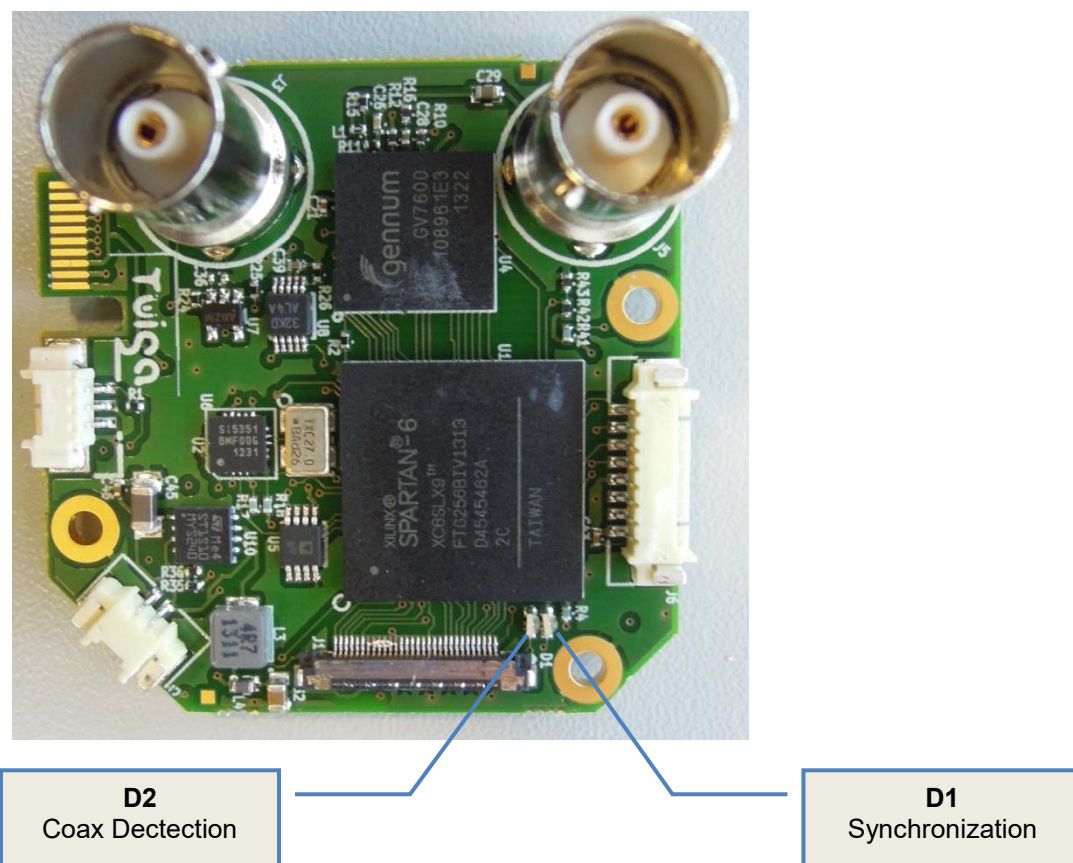
4.2.5 Programming (J7)



1	GND
2	+3v3
3	+V_in
4	TD0
5	TCK
6	TMS
7	TDI
8	+V_in
9	NC
10	NC

5 Signalization et configuration

Correct synchronization if the first green led (D1) is on. And, an analogic sync is detected if the second green led (D2) is on.



Factory setting of the serial communication is RS232 level. It is possible to bypass the RS232/TTL converter in removing R31 and R33, 0 Ohm, SMD resistors and soldering 0 Ohms, 0402, at R32 and R34 location. This resistors are in the bottom layer of the board.