

Document #: ELE-C589-102 Rev 3

Title: DC-In Sync Box Connector Pinouts

P3 (PCB)	Signal	CJ2 - DB9S (Box)	Wire Color	
1				
2	GND			
3	Tx	2	YEL	
4	GND			
5	Rx	3	BLU	
6	GND			
7	DSR	4	BRN	
8, 9, 10	GND	5	BLK	

P1 (PCB)	Signal	Switch (Box)	Wire Color
1	Reset	NO	BLU
2	GND	Pole	BLK

PCB	Signal	Box	Wire
P21.SMA	TTL_In	CJ5.BNC	RG-74
P24.SMA	TTL_Out	CJ6.BNC	RG-74

P6 (PCB)	Signal	CJ3 - DB25S (Box)	Wire Color	
1	Data_Valid+	1	YEL	Molex HDR
2	Data_Valid-	2	BLU	Molex HDR
3	GND	14	BLK	Molex HDR
P14				
1	Data_Sync1+	15	WHT	TP3
2	Data_Sync1-	16	BLU	TP4
3	GND	3	BLK	TP1
P16				
1	Data_Sync2+	4	GRY	TP5
2	Data_Sync2-	5	BLU	TP6
3	GND	17	BLK	TP1
P9				
1	Data_Sync3+	18	BRN	TP2
2	Data_Sync3-	19	BLU	TP7
3	GND	6	BLK	TP1
4	Data_Sync3_TTL	7	GRN	TP8
5	GND	20	BLK	TP1
P11				
1	Data_Sync4+	21	VIO	TP9
2	Data_Sync4-	22	BLU	TP10
3	GND	8	BLK	TP1
4	Data_Sync4_TTL	9	RED	TP11
5	GND	23	BLK	TP1

P19 (PCB)	Signal	LEDs (Box)	Wire Color
1	Freerun	Yellow	VIO
2	GND		BLK
3	DV_Error	Red	GRY
4	GND		BLK

Note 1 : There are two variations of the Sync Box with either **+5V** or **+24V** as input power. The latter has a built-in DC-DC converter board (ELE-C589-131) to feed +5V to **P5** connector on the Sync board.

Note 2: The input power connector **CP1** of the Sync Box is populated with:

+5V Unit: a plastic CPC 9-pin Connector

+24V Unit: Amphenol 5 pin Bayonet Connector

P5 (PCB)	Signal	CP1 +5V Box	Wire Color
1	+5V	1 & 2 (+5V)	RED
2	GND	3 & 6	BLK

ELE-C589-131 DC-DC Converter Board Wiring

DC-DC converter	Signal	CP1 +24V Box	Wire Color	P5 (Sync Board PCB)
P1.1	GND Out	-	BLK	P5.2
P1.2	+5V Out	-	RED	P5.1
P1.3	GND In	CP1 (D & E)	BLK	-
P1.4	+24V In	CP1 (B & C)	YEL	-

Rev. 1 March 31, 2010	RL	Initial release
Rev. 2 Apr. 19, 2010	MA	Added power connector pinout for 24V-in version
Rev. 3 Jul. 6, 2012	MA/TF	Added DC-DC Converter for 24V Power