## SDR2-CF and SDR2-OEM-CF Control Port (J4)

## API Port (J4)

Contact	Function	Direction	Wire Color
1	V <sub>DD</sub> (3.3 VDC)		Red
2	GND (0 VDC)		Black
3	REC_BUTTON	input	Blue
4	REC_TOGGLE	input	Grey
5	FAULT	output	Yellow
6	no connect		-
7	DATA	output	Orange
8	RECORD	output	Green
9	V <sub>DD</sub> (3.3 VDC)		-
10	GND (0 VDC)		-

J4 mating plug (shell): Hirose DF11-10DS-2C (Digi-Key part number H2023-ND)

For use with DF11 crimp contacts e.g. DF11-2428SCA (Digi-Key part number H2300-ND) or pre-crimped wires (Digi-Key part number H3BXG-101*LL-CW* where LL=length in inches, C=color code, W=wire gauge code).

## **API Port Functions**

Function	Description	
V <sub>DD</sub> (3.3 VDC)	Regulated low-current voltage output. Use for deasserting active-low inputs and driving LED indicator outputs.	
GND (0 VDC)	Signal ground. Use for asserting active-low inputs.	
REC_BUTTON	Momentary record input. Function is similar to front-panel record button. To use, connect a momentary pushbutton switch between this contact and GND.	
REC_TOGGLE	Force-record input. To use, connect a toggle switch between this contact and GND. When closed, the SDR2 will always enter record mode.	
FAULT	Fault condition indicator output. Function is similar to the front-panel Fault indicator. When low, indicates an unrecoverable error has occurred in the SDR2. To use, connect an LED's cathode to this contact and its anode to $V_{DD}$ via a current-limiting resistor. Limit current to 30 mA max.	
DATA	Data indicator output. Function is similar to the front-panel Data indicator. Pulses momentarily low to indicate data reception in the SDR2. To use, connect an LED's cathode to this contact and its anode to $V_{DD}$ via a current-limiting resistor. Limit current to 30 mA max.	
RECORD	Recording indicator output. Function is similar to the front-panel Record indicator. Driven low when the SDR2 is recording data to an open file. To use, connect an LED's cathode to this contact and its anode to $V_{DD}$ via a current-limiting resistor. Limit current to 30 mA max.	

Logic Levels: 3.3 VDC CMOS (inputs are connected to 3.3 VDC via 4.7 k  $\!\Omega$  pullup resistors)

Note: Do not use the REC\_BUTTON and REC\_TOGGLE functions simultaneously.