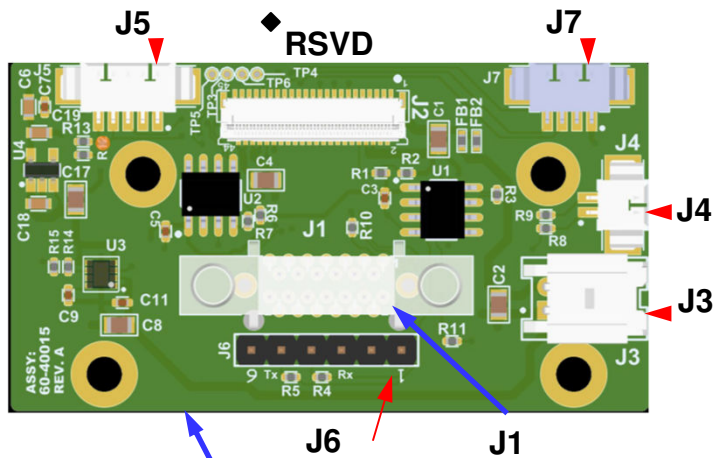


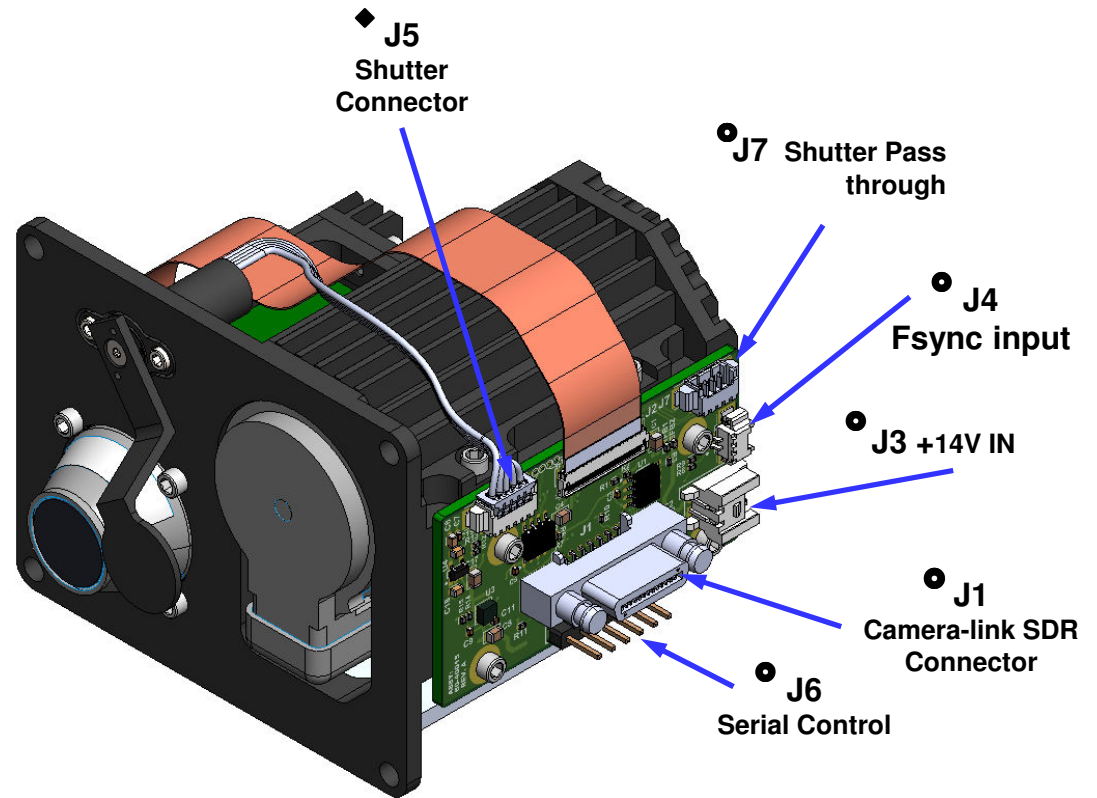
# NOTES: UNLESS OTHERWISE SPECIFIED

- LEGEND:
  - ◆ OCCUPIED – used by factory configuration
  - \* RESERVED – Factory use only; Do Not Connect
  - OEM/USER connection to camera interface
  - ▶ Pin 1 indicator
- Mating connectors, pinouts, and signal names on Sheets 2-3

REVISIONS			
REV	DESCRIPTION	ECO	Date
A	Initial Release	1308	2023-01-26
B	Corrected signal levels for J6 and J7	1483	2023-07-17



**60-40015  
PCBA, HexaCore  
Adapter Board**



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	FINISH: MATERIAL:	COMMENTS:	
Size: <b>A</b>	Drawing Date: 2023-07-17	Document Rev: <b>B</b>	N T S
			SHEET 1 OF 3

# NOTES: UNLESS OTHERWISE SPECIFIED

## J1 Camera Link Out

Output Connector: 3M 12226-1150-00FR  
 Mating cable, 26 position SDR Male  
 Raw image data from sensor core  
 16 bit raw (before non-uniformity correction)  
 Frame rate: 30Hz or 60Hz, will match sensor output

Pin	Signal	Pin	Signal
1	GND/POCL	14	GND
2	CL_OUT0_N	15	CL_OUT0_P
3	CL_OUT1_N	16	CL_OUT1_P
4	CL_OUT2_N	17	CL_OUT2_P
5	CL_CLK_N	18	CL_CLK_P
6	CL_OUT3_N	19	CL_OUT3_P
7	n/c	20	n/c
8	n/c	21	n/c
9	n/c	22	n/c
10	n/c	23	n/c
11	n/c	24	n/c
12	n/c	25	n/c
13	GND	26	GND/POCL

## J3 System Power In

Molex "Sherlock" 2-pin, 2mm pitch connector  
 Mating connector housing: Molex 0355070200  
 Connector terminals: Molex 0502128100  
 Input Voltage: 11.0 - 16.0V, 14V recommended, at higher operating temperatures lower voltages may reduce performance.  
 Input Power (steady state, after cooldown): 5.6W typ  
 Input Power (during cooldown): 10.1W typ  
**SOTI mating pigtail cable assy: S-A07-10237 (18", 24 awg)**

Pin	Description	
1	Input Power Return	BLACK
2	+14 V Input Power	RED

## J4s Frame Sync (input)


Molex "Picoblade" 2-pin, 1.25mm pitch  
 Mating connector housing: Molex 0510210200  
 Connector terminals: Molex 0500588100 (28-32 AWG)  
 See HexaBlu Electrical ICD (DRS Document No. 1043862) for detail

Pin	Signal	Notes
1	FSync	3.3V logic level 10kΩ pull-down
2	GND	

## J6 Serial (LVTTTL)

"RX" indicates input to camera from external device  
 "TX" indicates output from camera to external device  
 For direct communication with camera sensor  
 Standard 0.1" header, mates with FTDI TTL-232R3V3  
 Default baud rate 115200/8/N/1

Pin	Signal
1	GND
2	n/c
3	n/c
4	TX
5	RX
6	n/c

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N T S		SHEET 2 OF 3	

# NOTES: UNLESS OTHERWISE SPECIFIED

## J7 Shutter Control

Molex "PicoBlade" 4-pin, 1.25mm pitch


Mating connector housing: Molex 0510210400

Connector terminals: Molex 0500588100 (28-32 AWG)

3.3V Signals, 4.99k pull ups installed on SDA and SCL lines

See Nanomotion User Manual RS08 Rotary Shutter for shutter commands.

Pin	I2C (3.3V)
1	GND
2	Shutter Rst
3	SDA
4	SCL

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	FINISH: MATERIAL:	COMMENTS:	
Size: <b>A</b>	Drawing Date: 2023-07-17	Document Rev:	<b>B</b>
N T S		SHEET 3 OF 3	