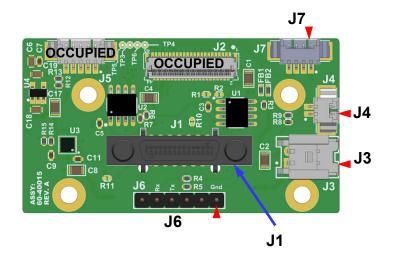
NOTES:

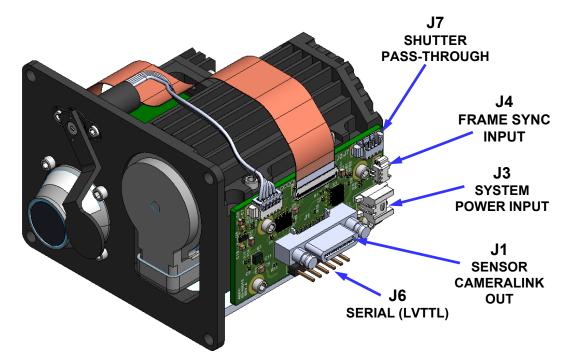
1. LEGEND: ► Position 1 indicator

2. Mating connectors, pinouts, and signal names on Sheets 2-3

	REVISIONS						
RI	ΕV	DESCRIPTION	ECO	DATE	Eng.		
F	4	Initial Release	1308	2023-01-26	DK		
E	3	Corrected signal levels for J6 and J7	1483	2023-07-17	WK		
(2	Corrected J6 pinout, update to latest template	1793	2024-08-14	GO		

60-40015 HexaCore Adapter Board





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NOTES:

INTERFACE CONNECTORS

- RX indicates output from camera to external system.
 TX indicates input to camera from external system.
- 4. Exceeding Max Ratings could cause damage to components.

J3 - SYSTEM POWER INPUT

Molex Sherlock 2-position, 2 mm pitch connector Mating connector housing: Molex 0355070200 Connector terminals: Molex 0502128100

SOTI mating pigtail cable Assy: S-A07-10237 (18", 24 awg)

Input Power,		
Steady State	Input Power,	
after cooldown	during cooldown	

Position	Name	Max Rating
1	Input Power Return	11.0 - 16.0 VDC
2	+14 VDC Nominal Input Power	11.0 - 10.0 VDC

J1 - SENSOR CAMERALINK OUT

Output Connector: 3M 12226-1150-00FR Mating cable: 26 position SDR Male

16-bit raw (before non-uniformity correction)

Frame rate: 30Hz or 60Hz, will match sensor output

1.8V LVDS Driver Output, Absolute Max Rating: -0.3V to 2.1V

Position	Name	Position	Name
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

J4 - FRAME SYNC INPUT

Molex Picoblade 2-position, 1.25 mm pitch Mating connector housing: Molex 0510210200

Connector terminals: Molex 0500588100 (28-32 AWG)

See HexaBlu Electrical ICD (DRS Document No. 1043862) for details.

Position	Name	Max Rating
1	Fsync IN - 3.3V Logic	-0.5V to 6.0V
2	GND	_

J6 - SERIAL (LVTTL)

Standard 0.1" header, mates with FTDI TTL-232R3V3

For direct communication with camera sensor.

Default baud rate 115200/8/N/1

Position	Name	Signal Direction	Max Rating
1	GND	-	-
2	n/c	-	-
3	n/c	-	-
4	TX - 3.3V Logic	INPUT	-0.5 to 6.0V
5	RX - 3.3V Logic	OUTPUT	-0.5 to 6.07
6	n/c	-	-

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does not contain export- controlled technology.	N.	TS	Drawn: D. Kaminski		SHEET	2 OF 3

NOTES:

INTERFACE CONNECTORS

5. Exceeding Max Ratings could cause damage to components.

J7 - SHUTTER PASS-THROUGH

Molex Picoblade 4-position, 1.25 mm pitch Mating connector housing: Molex 0510210400

Connector terminals: Molex 0500588100 (28-32 AWG)

All signals are 3.3V Logic levels.

SDA and SCL have 4.99k pull-up resistors.

Shutter Reset_N is an active low reset and has an internal pull-up resistor. See Nanomotion User Manual FS08 Rotary Shutter for shutter commands.

Position	Name	Max Rating
1	GND	-
2	Shutter Reset_N	
3	SDA	-0.5V to 3.6V
4	SCL	

