LEOPARD IMAGING

LI-CERTUS-10GSFP-BRG-STACK



Address:
910 Auburn Ct
Fremont, CA 94538
USA

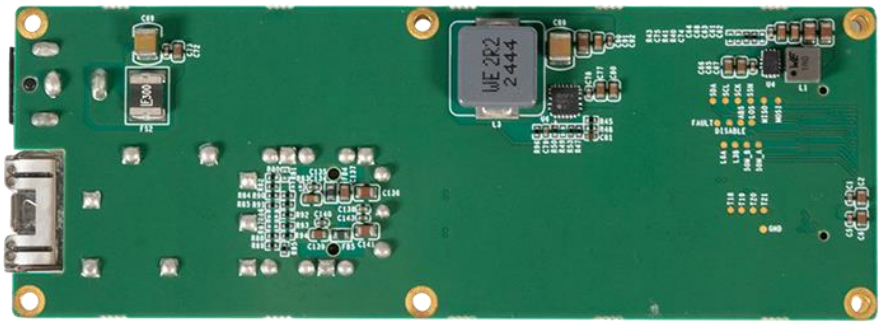
Phone:
+1 (408)263-0988
Fax:
+1 (408)217-1960

Sales:
sales@leopardimaging.com
Support:
support@leopardimaging.com

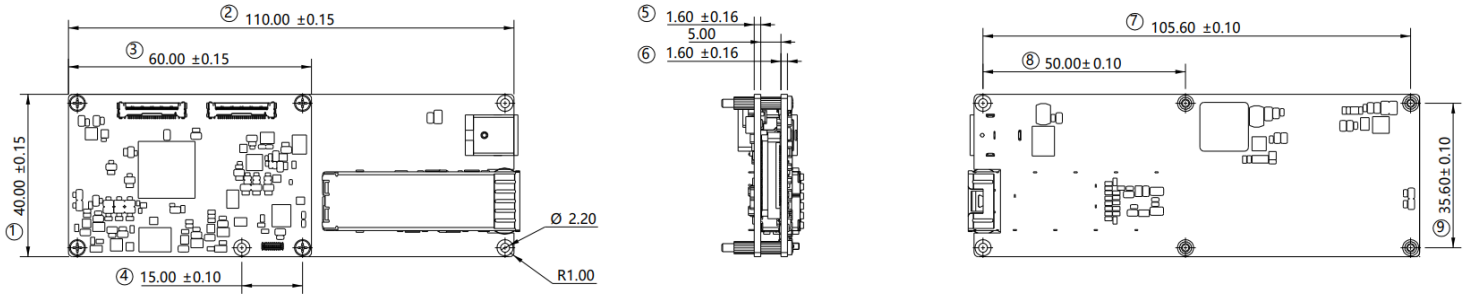
KEY FEATURES

- Features a Lattice® CertusPro-NX FPGA and an SFP transceiver with XFI (10 Gbps) connectivity
- Fully compatible with NVIDIA® Jetson Thor™, NVIDIA® Jetson AGX Orin™, and IGX Orin™ Developer Kits
- Supports up to 2× Leopard Imaging MIPI cameras (e.g., ISX031)
- Onboard 6-DoF IMU
- EEPROM for storing MAC address
- Uplink Interface: 10G SFP+
- Power Supply: 12 VDC
- Weight: ~43 g
- Part#: **LI-CERTUS-10GSFP-BRG-STACK**





DIMENSIONS



TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
0.5 < X≤3	±0.1	0.5 < X≤3	±0.2	X≤10	±1°
3 < X≤6	±0.1	3 < X≤6	±0.5	10 < X≤50	±30'
6 < X≤30	±0.2	6 < X≤30	±1	50 < X≤120	±20'
30 < X≤120	±0.3	X > 30	±2	120 < X≤400	±10'
120 < X≤400	±0.5			X > 400	±5'
400 < X≤1000	±0.8				
X > 1000	±1.2				

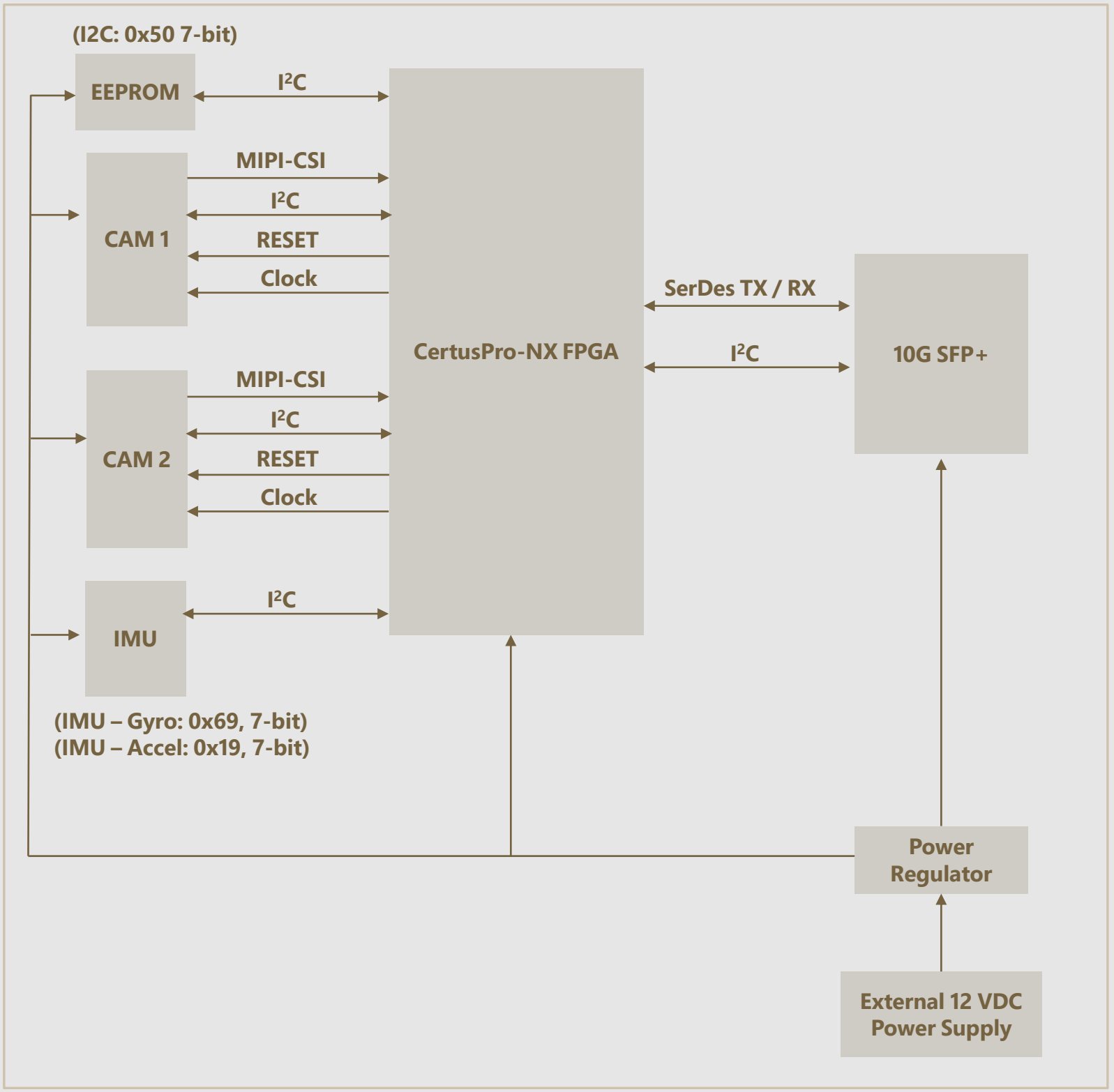
NOTE:

- ⊗ marked are important sizes.
- Tolerances for the unmarked refer to the tolerance table.
- All materials are compliant with RoHS requirements.
- Unit: mm

BOM DETAILS

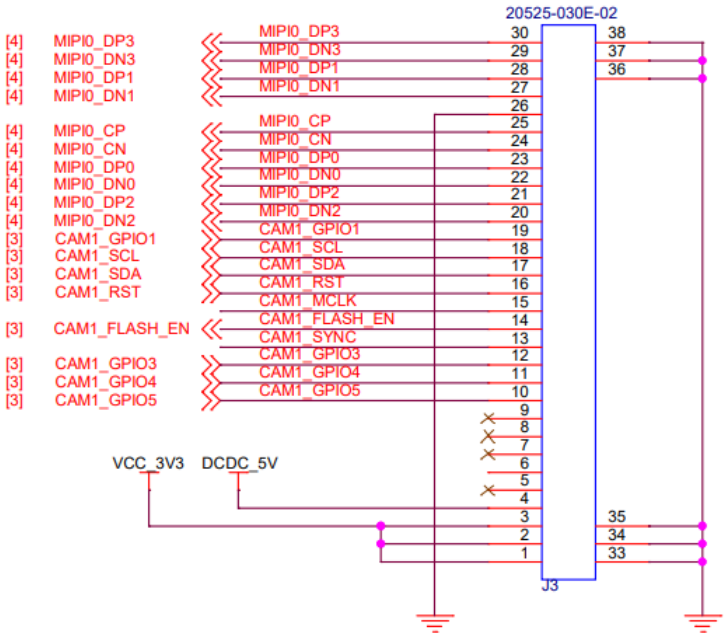
#	Items	QTY
1	LI-CERTUS-10GSFP-BRG-STACK	1
2	12 VDC power supply	1

SYSTEM BLOCK DIAGRAM



CAM 1 / CAM 2 INTERFACE

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX Cable: FAW-1233-xx



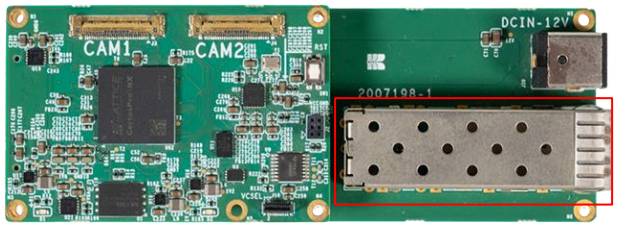
PINOUT DETAILS

Pin No	Pin Name	Pin Type	Description	Voltage Level
30	MIPI_D3P	Output	P signal of the D3-port differential signal of MIPI	1.2V
29	MIPI_D3N	Output	N signal of the D3-port differential signal of MIPI	1.2V
28	MIPI_D1P	Output	P signal of the D1-port differential signal of MIPI	1.2V
27	MIPI_D1N	Output	N signal of the D1-port differential signal of MIPI	1.2V
26	GND	-	GND	-
25	MIPI_CP	Output	P signal of the CLOCK differential signal of MIPI	1.2V
24	MIPI_CN	Output	N signal of the CLOCK differential signal of MIPI	1.2V
23	MIPI_D0P	Output	P signal of the D0-port differential signal of MIPI	1.2V
22	MIPI_D0N	Output	N signal of the D0-port differential signal of MIPI	1.2V
21	MIPI_D2P	Output	P signal of the D2-port differential signal of MIPI	1.2V
20	MIPI_D2N	Output	N signal of the D2-port differential signal of MIPI	1.2V

Pin No	Pin Name	Pin Type	Description	Voltage Level
19	CAM_GPIO1	-	-	-
18	CAM_SCL	Output	The SCL signal of camera I2C	1.8V
17	CAM_SDA	Bidir	The SDA signal of camera I2C	1.8V
16	CAM_RST	Output	Reset signal	1.8V
15	CAM_MCLK	Output	Clock signal	1.8V
14	CAM_FLASH_EN	Bidir	GPIO signal	1.8V
13	CAM_SYNC	Bidir	Frame sync signal for camera	1.8V
12	CAM_GPIO3	Bidir	GPIO signal	1.8V
11	CAM_GPIO4	Bidir	GPIO signal	1.8V
10	CAM_GPIO5	Bidir	GPIO signal	1.8V
9	-	-	-	-
8	-	-	-	-
7	-	-	-	-
6	-	-	-	-
5	-	-	-	-
4	VCC_5.0V	Output	Power supply	5V
3	VCC_3.3V	Output	Power supply	3.3V
2	VCC_3.3V	Output	Power supply	3.3V
1	VCC_3.3V	Output	Power supply	3.3V

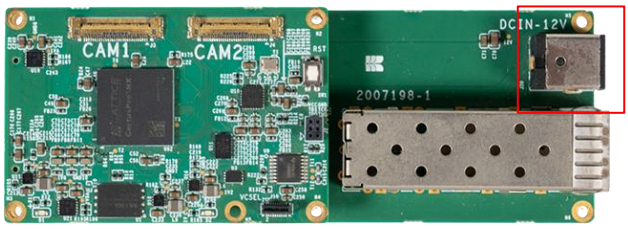
10GB SFP+

- Part#: 1888247-1
- Connector Type: SFP+



External 12 VDC Power Supply

- Part#: PJ-063AH
- Number of Positions: 3
- Connector Type: Jack
- Inner Diameter: 2 mm
- Outer Diameter: 6.5 mm



REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	02 Nov 2026

910 Auburn Ct, Fremont, CA 94538, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com

