LEOPARD IMAGING

LI-FPC22-IPEX-PI

Address:
910 Auburn Ct
Fremont, CA 94538
USA

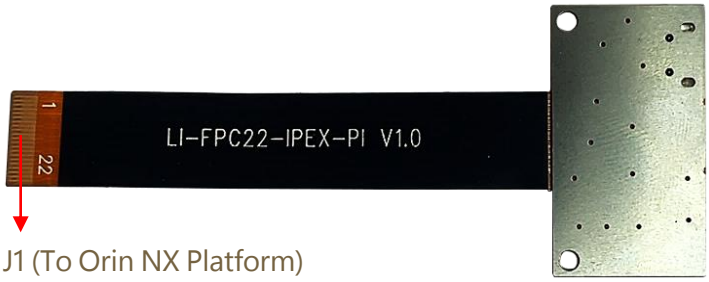
Phone:
+1 (408)263-0988
Fax:
+1 (408)217-1960

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

TECHNICAL FEATURES

- Adapter board for NVIDIA® Jetson Orin™ NX Developer Kit or Raspberry Pi Platform (with 22-pin camera interface)
- Compatible with all Leopard Imaging MIPI CSI-2 cameras (with I-PEX 30-pin connector)
- 1 x MIPI CSI-2 camera interface (4-lane)
- 1 x USB 2.0 Micro-B interface
- 1 x 0.5mm pitch 22-pin golden finger to Orin NX **CAM1** connector or Raspberry Pi **Camera** interface

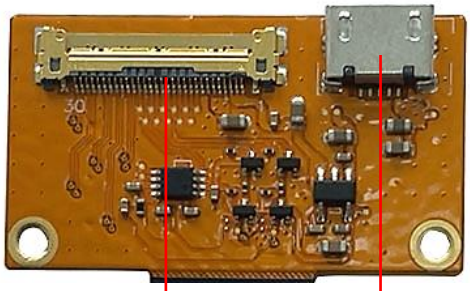
  Mating connector: 54548-2271
- Cable length: 80.00 mm ± 0.2
- Weight: ~ 2 g
- Part#: **LI-FPC22-IPEX-PI**



J1 (To Orin NX Platform)

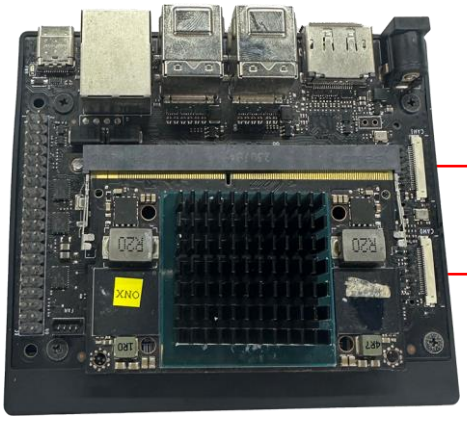
- Mating connector on **Orin NX**: **CAM1**

***NOTE**: There are two camera interfaces on Orin NX : CAM0 and CAM1. If you are looking for adapt board for **CAM0**, refer to: https://www.leopardimaging.com/product/accessories/adapters-carrier-boards/li-fpc22-ipex-onx/*



J2 (To Camera Module)

J3 (Reserved 5V Power Source)



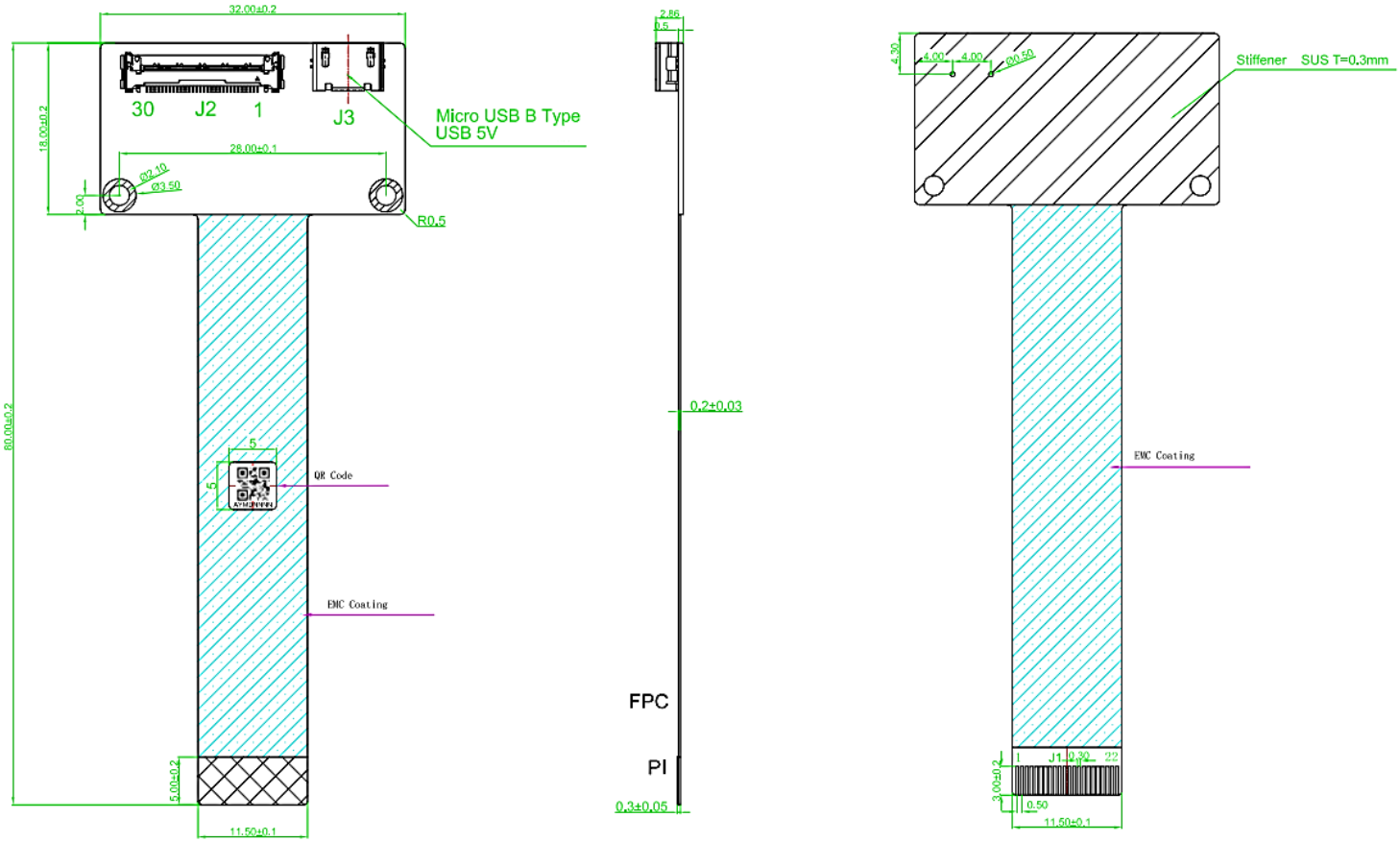
LI-FPC22-IPEX-PI only connects to **CAM1** on Orin NX Developer Kit

CAM0 should connect to another adapt: **LI-FPC22-IPEX-ONX**

J1 & J2 & J3 PIN ASSIGNMENT

Interface J1		Interface J2		Interface J3	
1	VDD_3V3	1	VDD_3V3	1	VBUS_5V
2	PI_SDA	2	VDD_3V3	2	NC
3	PI_SCL	3	VDD_3V3	3	NC
4	GND	4	VDD_5V0	4	NC
5	GPIO2	5	NC	5	GND
6	PWDN	6	NC		
7	GND	7	NC		
8	MIPI1_D3P/D1P	8	NC		
9	MIPI1_D3N/D1N	9	TX1_GPIO3		
10	GND	10	CAM_XHS		
11	MIPI1_D2P/D0P	11	TX1_GPIO2		
12	MIPI1_D2N/D0N	12	CAM_XVS		
13	GND	13	CAM_TRIG		
14	MIPI1_CP	14	FLASH_EN		
15	MIPI1_CN	15	CLK_TMP		
16	GND	16	CAM_RST		
17	MIPI1_D1P	17	CAM_SDA		
18	MIPI1_D1N	18	CAM_SCL		
19	GND	19	TX1_GPIO1		
20	MIPI1_D0P	20	MIPI1_D2N/D0N		
21	MIPI1_D0N	21	MIPI1_D2P/D0P		
22	GND	22	MIPI1_D0N		
		23	MIPI1_D0P		
		24	MIPI1_CN		
		25	MIPI1_CP		
		26	GND		
		27	MIPI1_D1N		
		28	MIPI1_D1P		
		29	MIPI1_D3N/D1N		
		30	MIPI1_D3P/D1P		

DIMENSIONS



Unit: mm

REVISION HISTORY

Revision	Description	Release Date
1.0	First Release.	20 Jun 2025

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