



**LEOPARD**  
IMAGING

# LI-FPC22-IPEX-ONX



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## TECHNICAL FEATURES

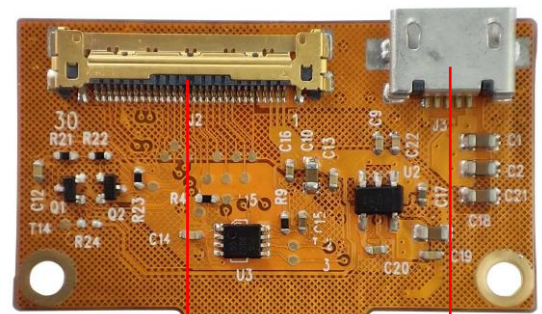
- Adapter board for NVIDIA® Jetson Orin™ NX Developer Kit A01
- Compatible with all Leopard Imaging MIPI CSI-2 cameras (with I-PEX 30-pin connector)
- 1 x MIPI CSI-2 camera interface (4-lane)
- 1 x USB 2.0 Micro-B interface
- 1 x 22-pin connector to Orin NX **CAM1** interface  
Mating connector: 54548-2271
- Cable length: 80.00 mm ± 0.2
- Weight: ~ 2 g
- Part#: **LI-FPC22-IPEX-ONX**



J1 (To Orin NX Platform)

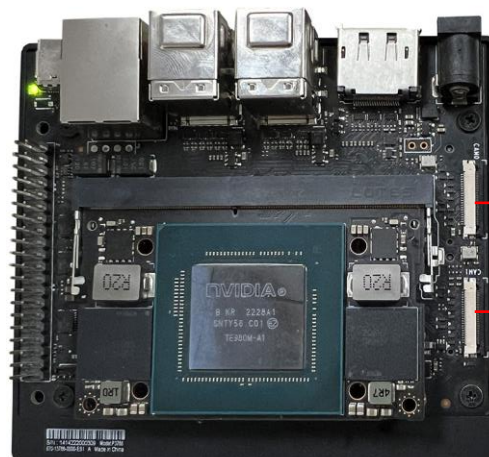
- Mating connector: **54548-2271**
- Mating connector on **Orin NX A01: CAM1**

**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/nvidia-jetson-cameras/nvidia-jetson-orin-nx-camera-kit/li-fpc22-ipex-pi/>



J2 (To Camera Module)

J3 (Reserved 5V Power Source)



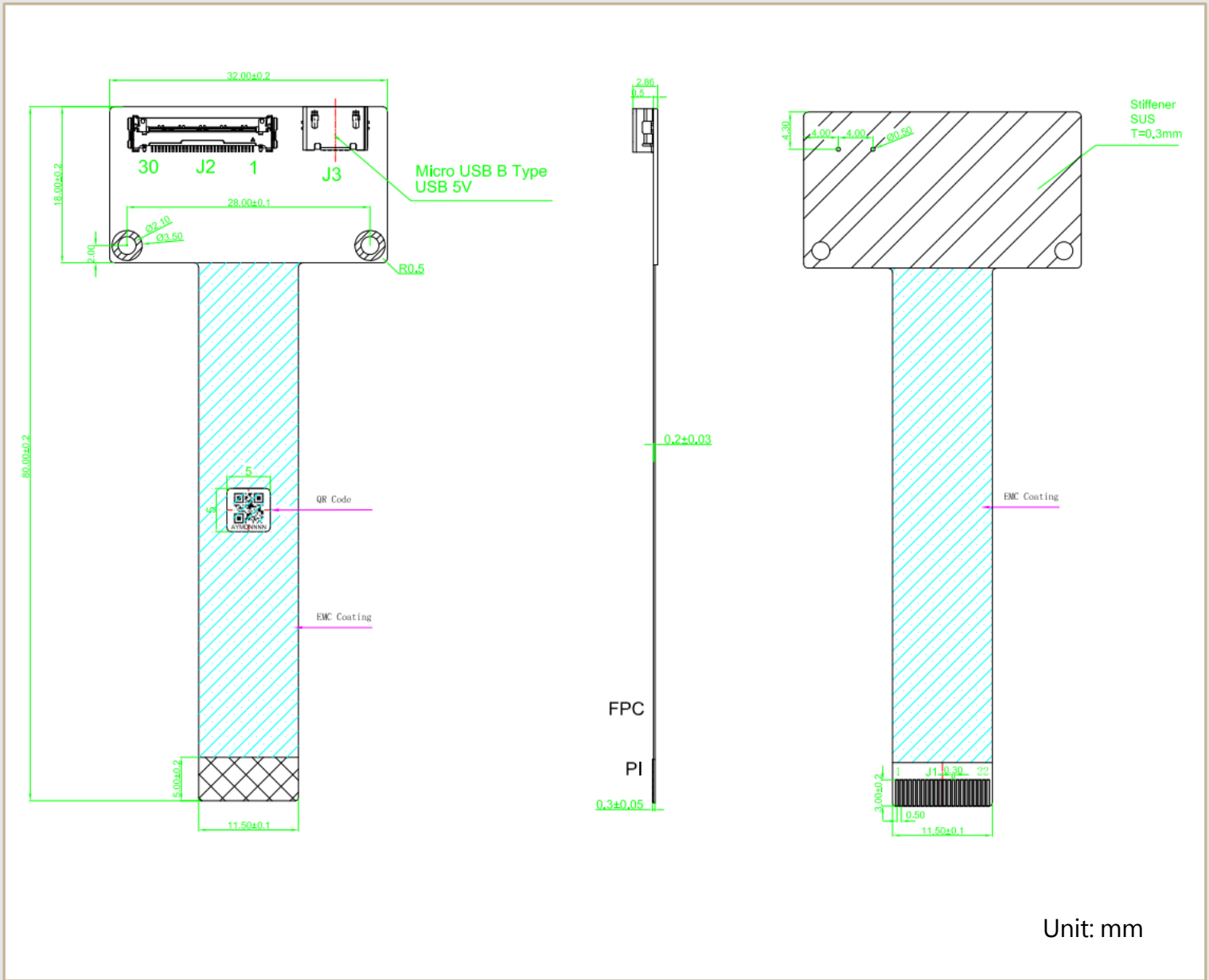
**CAM0** should connect to another adapt: **LI-FPC22-IPEX-PI**

LI-FPC22-IPEX-ONX must connect to **CAM1** on NVIDIA® Jetson Orin™ NX Developer Kit A01.

## J1 & J2 PIN ASSIGNMENT

Interface J1		Interface J2	
1	VDD_3V3	1	VDD_3V3
2	PI_SDA	2	VDD_3V3
3	PI_SCL	3	VDD_3V3
4	GND	4	VDD_5V0
5	MCLK	5	NC
6	PWDN	6	NC
7	GND	7	NC
8	MIPI1_D1P	8	NC
9	MIPI1_D1N	9	TX1_GPIO3
10	GND	10	CAM_XHS
11	MIPI1_D0P	11	TX1_GPIO2
12	MIPI1_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_D3P/D1P	17	CAM_SDA
18	MIPI1_D3N/D1N	18	CAM_SCL
19	GND	19	TX1_GPIO1
20	MIPI1_D2P/D0P	20	MIPI1_D2N/D0N
21	MIPI1_D2N/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
0.1	Initial draft.	28 Mar 2023
0.2	<ol style="list-style-type: none"><li>1. Deleted Interface J1 and J2 sections.</li><li>2. Added notes on the pics of the second page.</li></ol>	11 Aug 2023

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