

LI-FPC22-IPEX-ONX

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TECHNICAL FEATURES

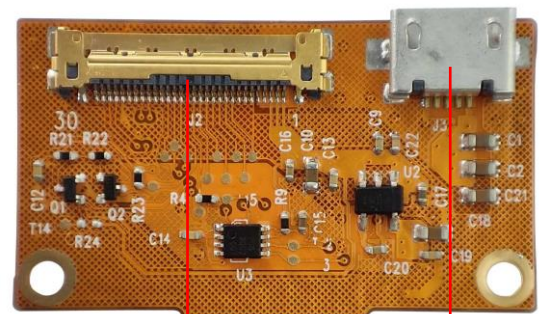
- Adapter board for NVIDIA® Jetson Orin™ NX Developer Kit A01
- Compatible with all Leopard Imaging MIPI CSI-2 cameras (with I-PEX 30-pin connector)
- 1 x MIPI CSI-2 camera interface (4-lane)
- 1 x USB 2.0 Micro-B interface
- 1 x 22-pin connector to Orin NX **CAM1** interface
Mating connector: 54548-2271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



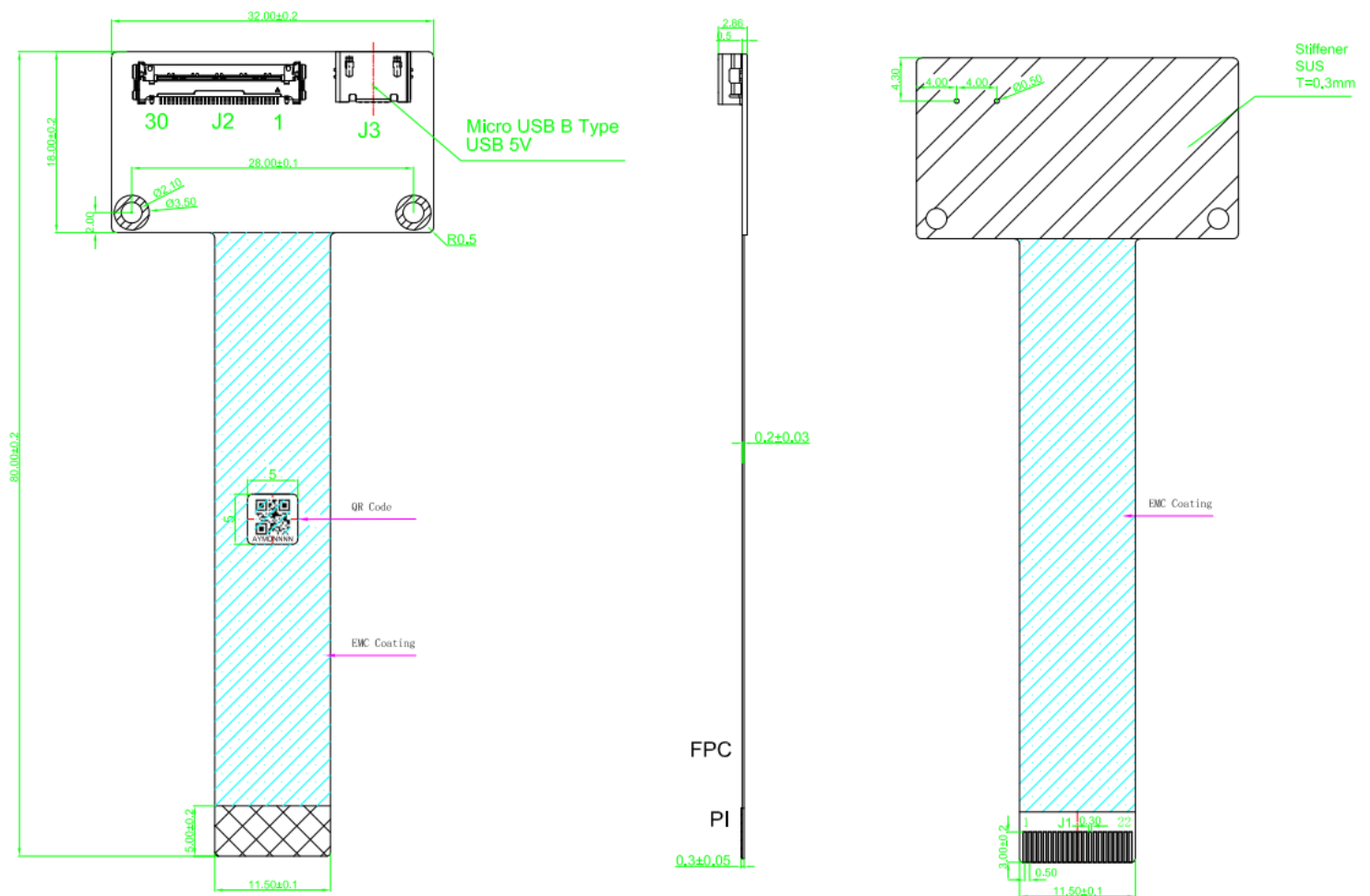
CAM0 should connect to another adapt: **LI-FPC22-IPEX-PI**

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	1. Deleted Interface J1 and J2 sections. 2. Added notes on the pics of the second page.	11 Aug 2023

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