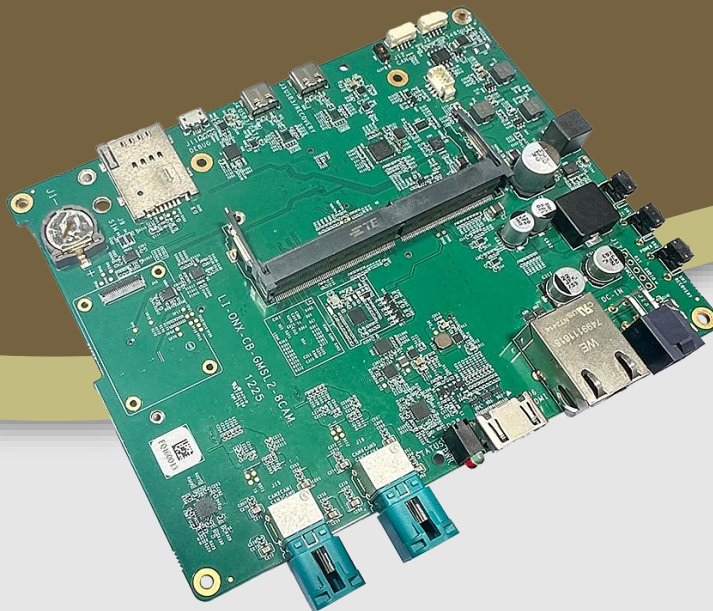




LEOPARD
IMAGING

LI-ONX-CB-GMSL2-8CAM



Address:

910 Auburn Ct
Fremont, CA 94538
USA



Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960



Sales:

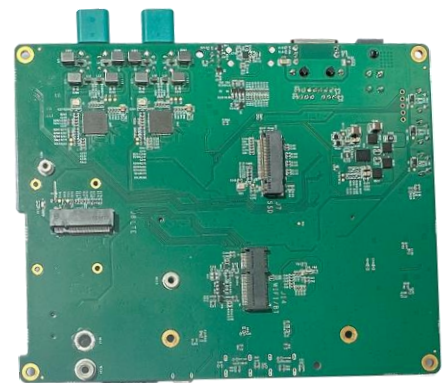
sales@leopardimaging.com

Support:

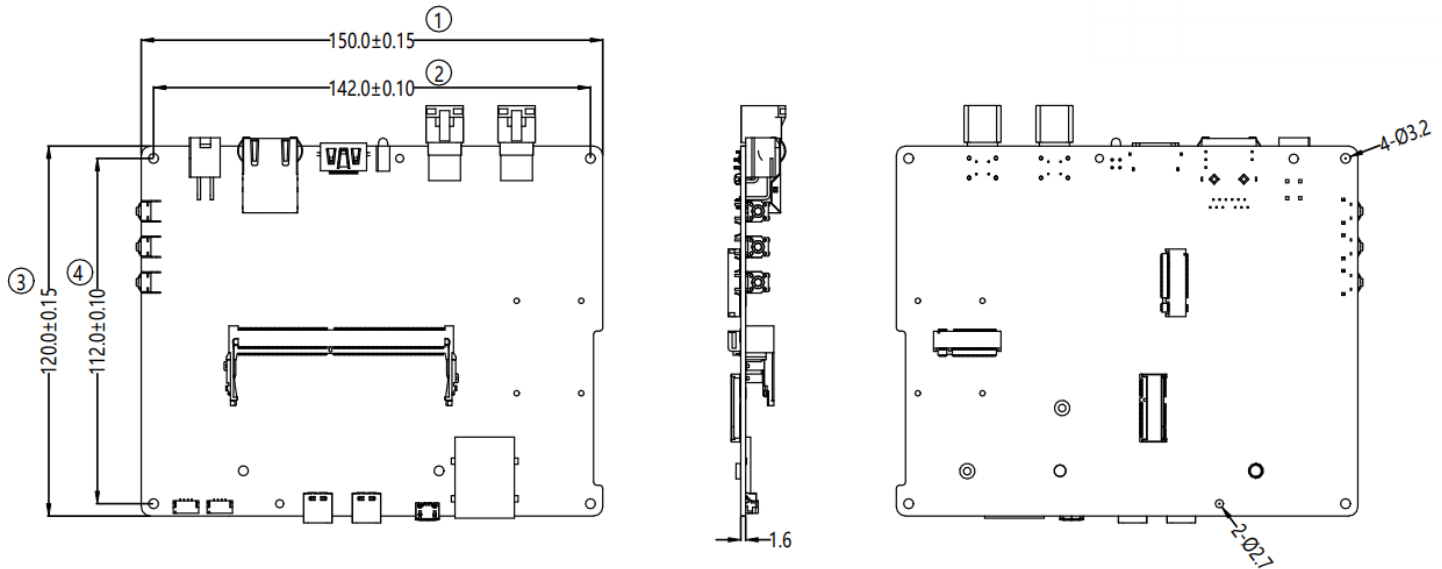
support@leopardimaging.com

● TECHNICAL FEATURES

- Carrier board for NVIDIA® Jetson Orin™ NX / Jetson Orin™ NANO SOM
- Supports up to 8x Leopard Imaging FAKRA cameras
Mini Quad connector: 1206161400
- DeSerializer: 2x Maxim MAX96724
- 1 x Power interface
- 1 x HDMI connector
- 2 x USB Type-C interfaces:
1 x USB 3.0 Type-C (data)
1 x USB 2.0 Type-C (flashing port)
- 1 x USB2.0 Mirco B debug interface
- 1 x RS485 interface
- 1 x CAN interface
- 1 x FAN interface
- 1 x RJ45 Gigabit Ethernet interface
- 1 x M.2 Key-M connector for SSD
- 1 x M.2 Key-E connector for WiFi
- 1 x M.2 Key-B connector for LTE, with MINI Sim card socket
- 1 x FPC connector for GNSS Extension board
- STATUS and PWR LED indicators included
- Recovery, RST and PWR buttons included
- Power supply range: 9 ~ 48 VDC
Note: 12 VDC in default and auto power on.
- Operating temperature: TBD
- Weight: ~ 144 g (Without SOM)



DIMENSIONS



NOTE:

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

TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
$0.5 < X \leq 3$	± 0.1	$0.5 < X \leq 3$	± 0.2	$X \leq 10$	$\pm 1^\circ$
$3 < X \leq 6$	± 0.1	$3 < X \leq 6$	± 0.5	$10 < X \leq 50$	$\pm 30'$
$6 < X \leq 30$	± 0.2	$6 < X \leq 30$	± 1	$50 < X \leq 120$	$\pm 20'$
$30 < X \leq 120$	± 0.3	$X > 30$	± 2	$120 < X \leq 400$	$\pm 10'$
$120 < X \leq 400$	± 0.5			$X > 400$	$\pm 5'$
$400 < X \leq 1000$	± 0.8				
$X > 1000$	± 1.2				

BOM

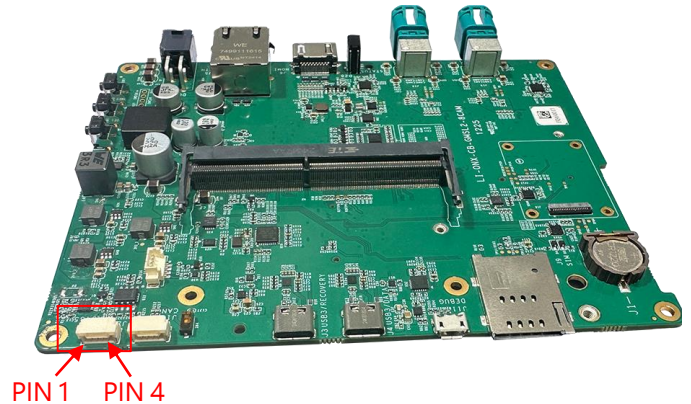
#	Items	QTY	Unit
1	LI-ONX-CB-GMSL2-8CAM	1	Piece
2	12 VDC power supply: 1 x 12V power adapter + 1 x cable adapter	1	Set

NOTE:

- The 12 VDC power supply is for testing only.
- The Mini Quad FAKRA cable is not included. You can purchase via the following address:
<https://www.leopardimaging.com/product/accessories/cables/li-fcb-4t1-ss-2m-np-t1/>

RS485 Interface (J2)

- Part#: SM04B-GHS-TB
- Number of Positions: 4

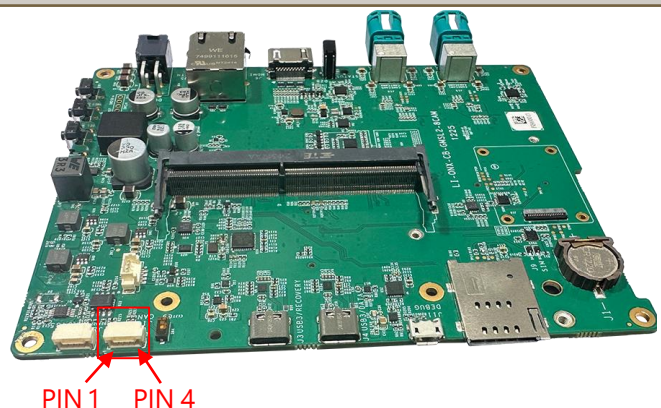


PINOUT

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	A+	Differential output +	signal	-7V ~ 12V
2	B-	Differential output -	signal	-7V ~ 12V
3	Y+	Differential input +	signal	-7V ~ 12V
4	Z-	Differential input -	signal	-7V ~ 12V

CAN Interface (J12)

- Part#: SM04B-GHS-TB
- Number of Positions: 4



PINOUT

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	VCC_5V	Power supply	Power	5V
2	CAN_H	Differential Input/output +	signal	0V ~ 5V
3	CAN_L	Differential Input/output -	signal	0V ~ 5V
4	GND	GND	-	-

Power Supply Interface (J13)

■ Part#: 1724480004

■ Number of Positions: 4

■ Power supply range: 9 ~ 48 VDC

Note: 12 VDC in default and auto power on.

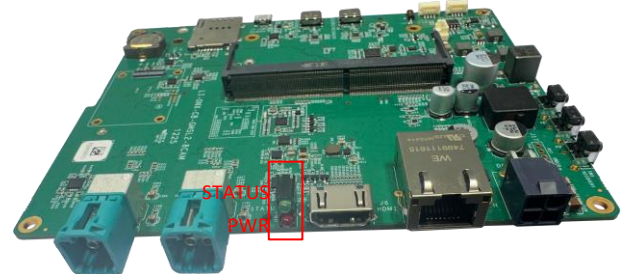


PINOUT

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	VCC_12V	Power supply	Power	12V
2	VCC_12V	Power supply	Power	12V
3	GND	GND	-	-
4	GND	GND	-	-

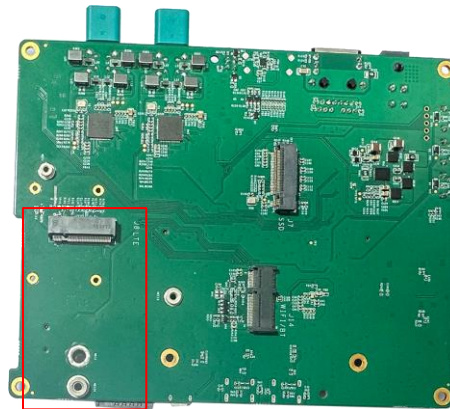
Indicator Interface (D28)

Interface	LED Indicator
Logo	STATUS / PWR
Description	STATUS: Constant shining in default. Blinking = Something wrong. PWR: Constant shining after power on.



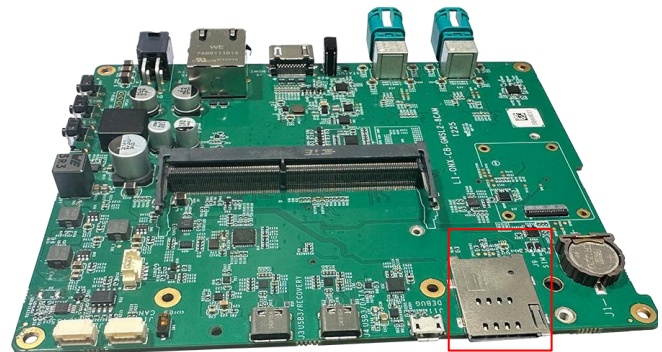
• LTE Interface (J8)

- Part#: 2199230-3
- Card Type: M.2 (NGFF) Mini Card (M.2 B)
- LTE: 4G or 5G



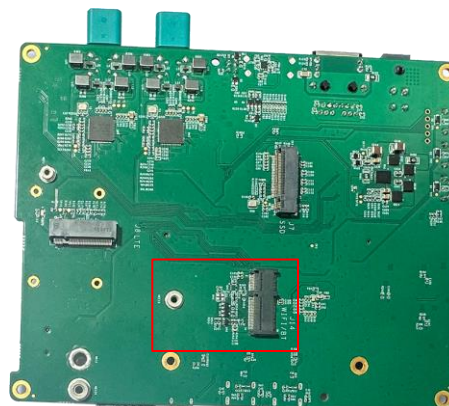
• MINI SIM Card Interface (J9)

- Part#: SIM4065-8-1-15-00-A
- Card Type: Mini SIM



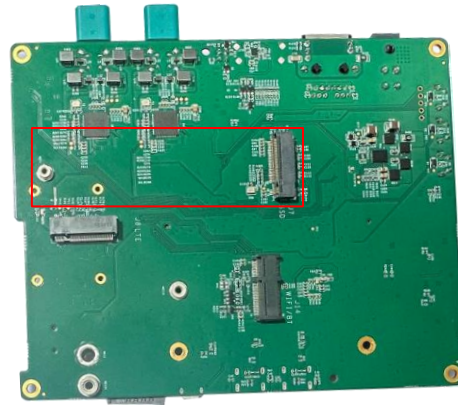
• WIFI & Bluetooth Interface (J14)

- Part#: 246411067401894E
- Card Type: M.2 (NGFF) Mini Card (M.2 E)
- Number of Positions: 67
- WIFI & Bluetooth: Wi-Fi 2.4GHZ & 5GHz, BT 5.0



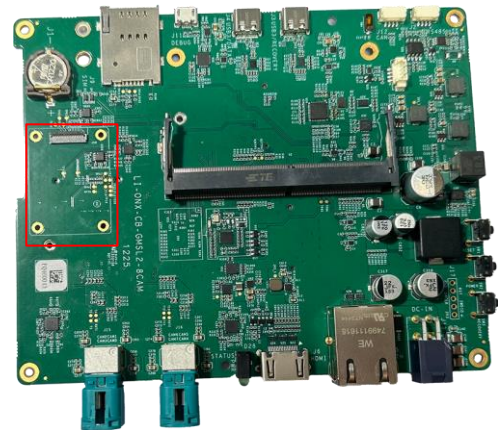
SSD Interface (J7)

- Part#: SM3ZS067U410AMR1000
- Card Type: M.2 (NGFF) Mini Card (M.2 M)
- Number of Positions: 67
- SSD drive capacity: TBD



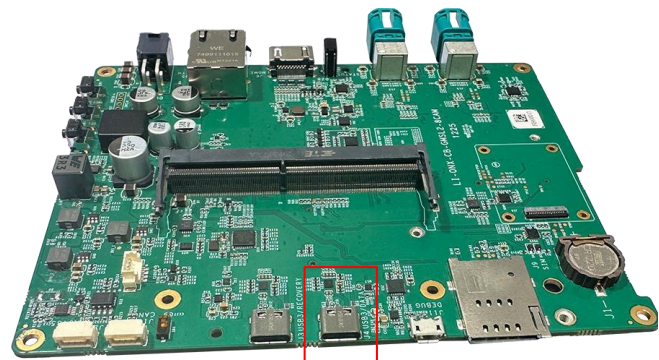
FPC connector for GNSS Extension board (J18)

- Part#: FH34SRJ-20S-0.5SH(99)



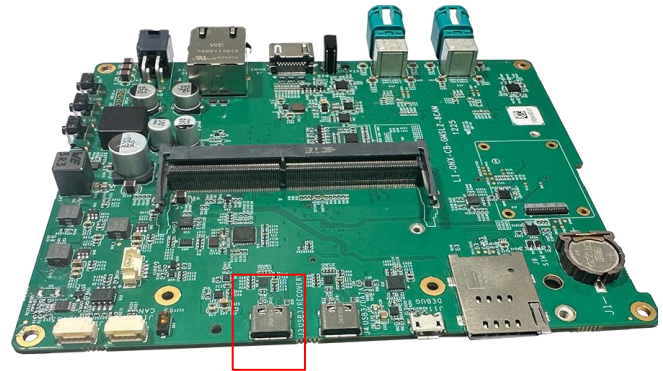
USB3.0 Type C Interface (J4)

- Part#: 12401899E412A
- Data port



• USB3.0 Type C Interface (J3)

- Part#: 12401899E412A
- flashing port



• MINI Quad FAKRA Connector Interface (J15 / J16)

- Part#: 1206161400
- Number of Positions: 4



- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	08 Aug 2025
0.2	Added BOM.	13 Aug 2025
0.3	Updated the note for BOM details.	16 Sep 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

