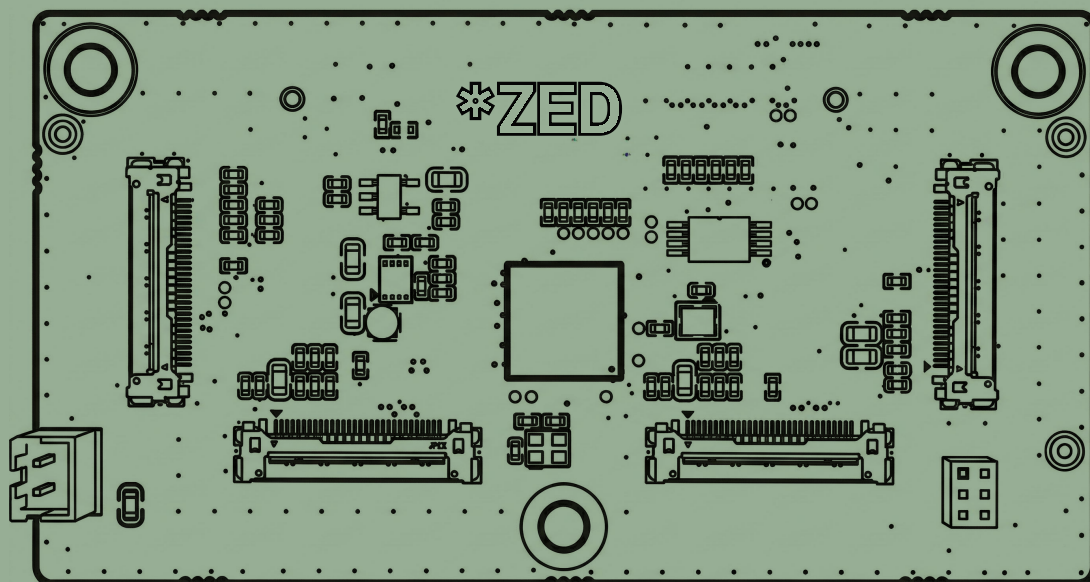


*ZED Link MIPI Quad

Overview & Datasheet

The ZED Link MIPI Quad is a high-performance interface engineered for seamless ZED X One Core camera integration on NVIDIA® Jetson Thor™ via Holoscan Sensor Bridge and NVIDIA® Jetson Orin™ platforms. By utilizing a direct MIPI CSI-2 connection, it bypasses standard protocol overhead to provide a raw, high-speed data path with up to 10Gbps total bandwidth. This makes it the definitive choice for latency-critical deployments, such as Physical AI and advanced robotics like humanoids.



*ZED Link MIPI Quad

Datasheet Revision History

Document Version	Description	Revision Date
1.0	● Initial release	May 2026
1.1	● Added: Dimensions on technical drawings ● Minor corrections: Typos, wording	September 2026

*ZED Link MIPI Quad General Specifications

NVIDIA® Jetson Thor™ Ready

Built for the next generation of Physical AI, the ZED Link MIPI is fully compatible with the NVIDIA® Jetson Thor™ through Holoscan Sensor Bridge, making it ideal for the most resource-demanding deployments.

Ultra-Low Latency

Engineered for massive data throughput, the ZED Link MIPI Quad sustains a 10Gbps total bandwidth ensuring low-latency data transfer for complex AI pipelines.

Holoscan Full Compatibility

Combined with the NVIDIA® Holoscan Sensor Bridge, the platform streamlines edge-AI deployment and multi-sensor fusion for complex industrial applications.

High-Performance MIPI I-PEX

By utilizing industrial-grade MIPI I-PEX connectors, the ZED Link MIPI provides a high-speed data transmission across extended cable runs of up to 50cm while keeping a perfect signal integrity.

Hardware Level Synchronization

The ZED Link MIPI Quad provides a real-time hardware synchronization across all connected cameras, ensuring perfectly aligned data acquisition.

Multi-Camera Deployment

With its four 4-lane MIPI CSI-2 channels, the ZED Link MIPI Quad provides the flexibility to scale from a simple mono camera setup to a comprehensive multi-angle array.

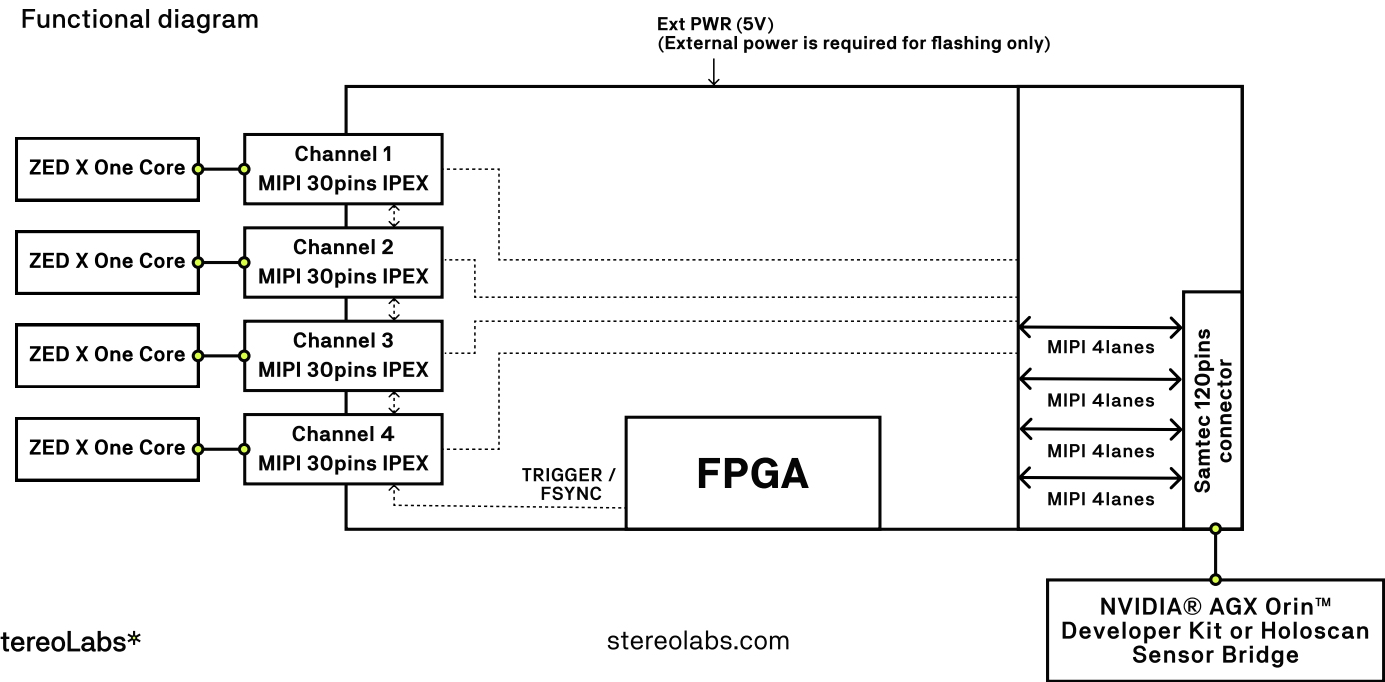
ZED Link MIPI Quad General Specifications

Computer Compatibility	NVIDIA® Jetson Thor™ through Holoscan Sensor Bridge NVIDIA® Jetson AGX Orin™
Camera Compatibility	ZED X One Core
Capture Capability	2x MIPI Camera inputs in SD/HD up to 1920x1200 @60fps on NVIDIA® Jetson Thor™ 4x MIPI Camera inputs in SD/HD up to 1920x1200 @60fps on NVIDIA® Jetson AGX Orin™
Input Voltage	5V DC (External power is required for flashing only)**
Typical Power Consumption	5W
Operating Temperature	0°C to +60°C
Weight	28g

(*) Please refer to our online documentation for partner-compatible Holoscan Sensor Bridge boards

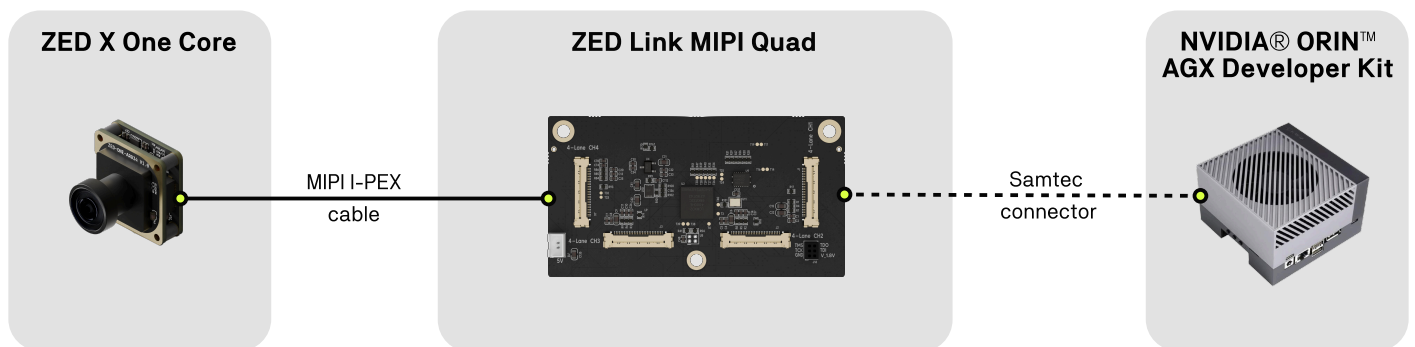
(**): The ZED Link MIPI Quad is powered through SAMTEC when used with Holoscan Sensor Bridge or NVIDIA® Jetson AGX Orin™ platform

Functional diagram

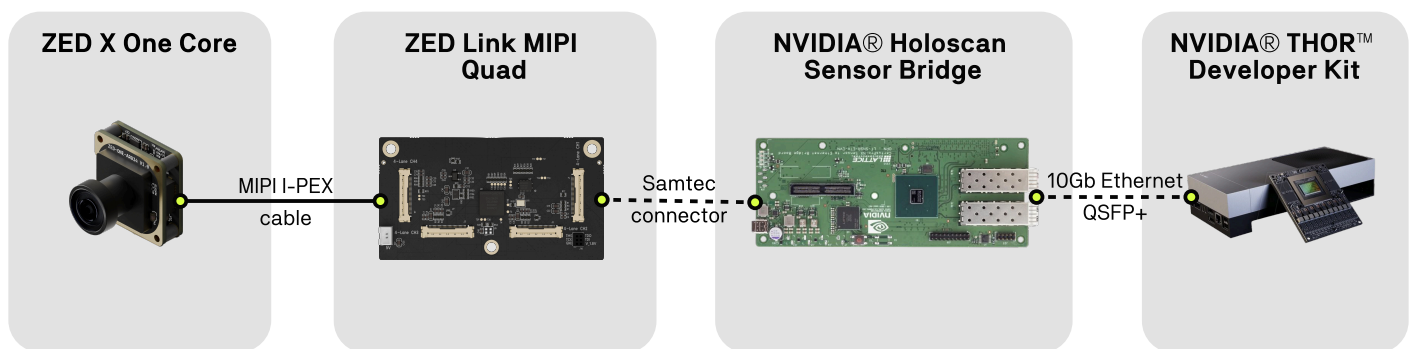


*ZED Link MIPI Quad Workflow Overview

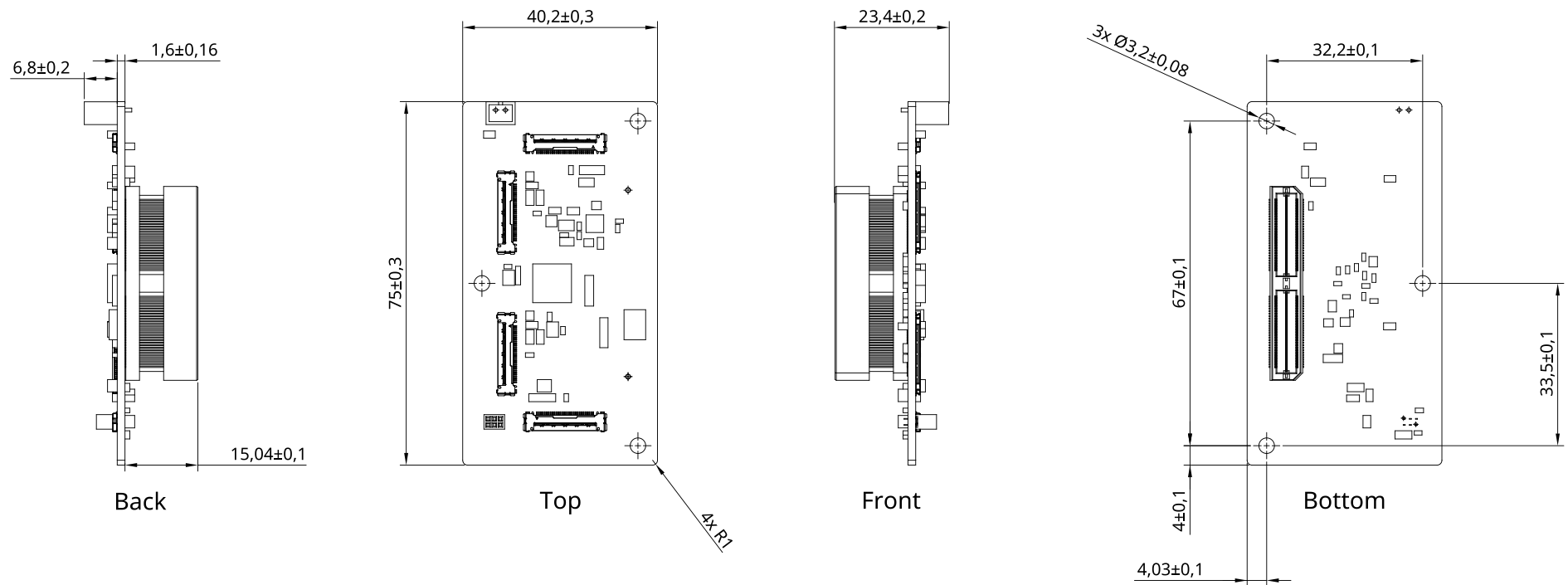
Workflow overview with NVIDIA® Jetson AGX Orin™ Developer Kit
Maximum of 4x ZED X One Core cameras



Workflow overview with NVIDIA® Holoscan and Jetson Thor™
Maximum of 2x ZED X One Core cameras



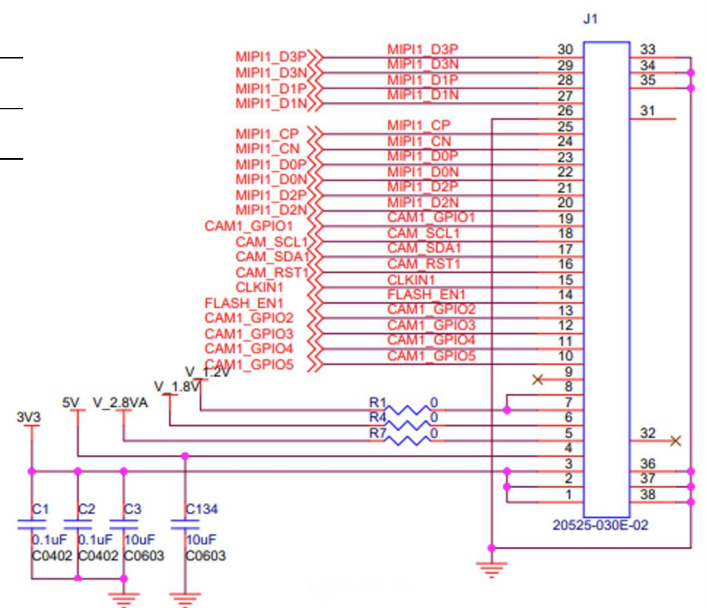
*ZED Link MIPI Quad Technical Drawings



*ZED Link MIPI Quad Interfaces

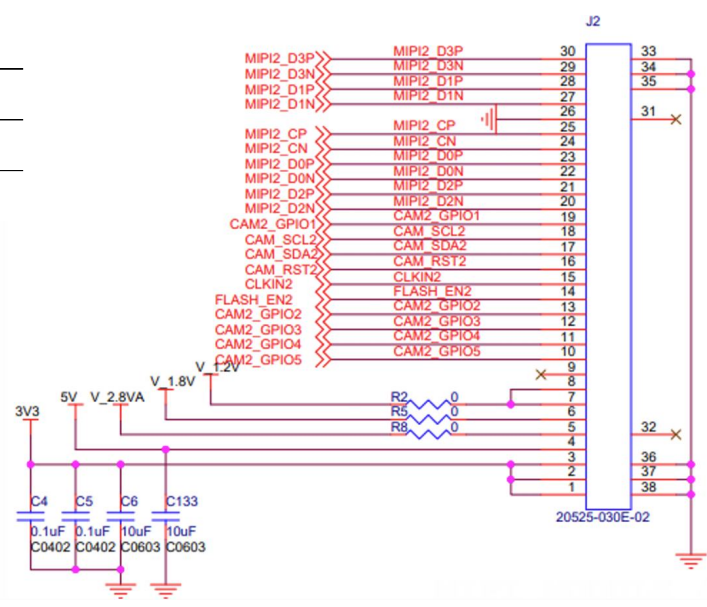
Interface J1 (Camera Channel 1)

Part Number	20525-030E-02
Connector Type	FAW-1233-XX
Connector Profile	30 pins 0.4 mm pitch



Interface J2 (Camera Channel 2)

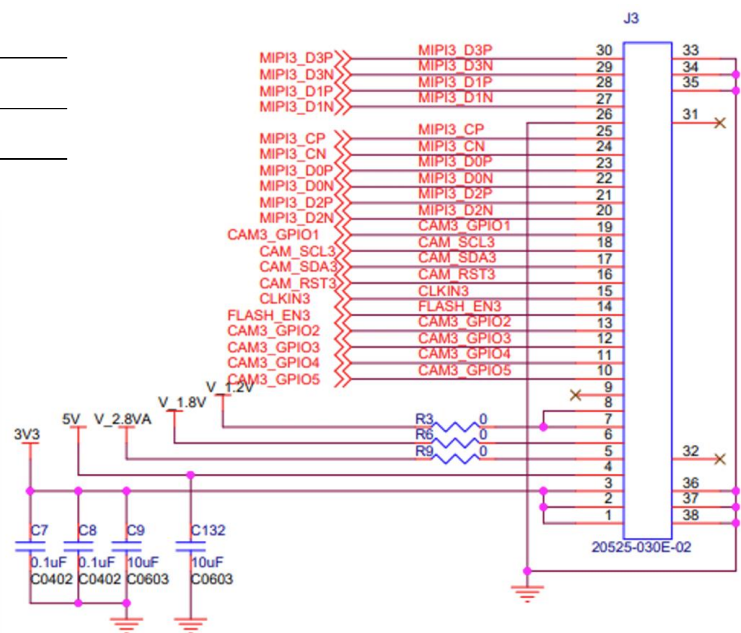
Part Number	20525-030E-02
Connector Type	FAW-1233-XX
Connector Profile	30 pins 0.4 mm pitch



*ZED Link MIPI Quad Interfaces

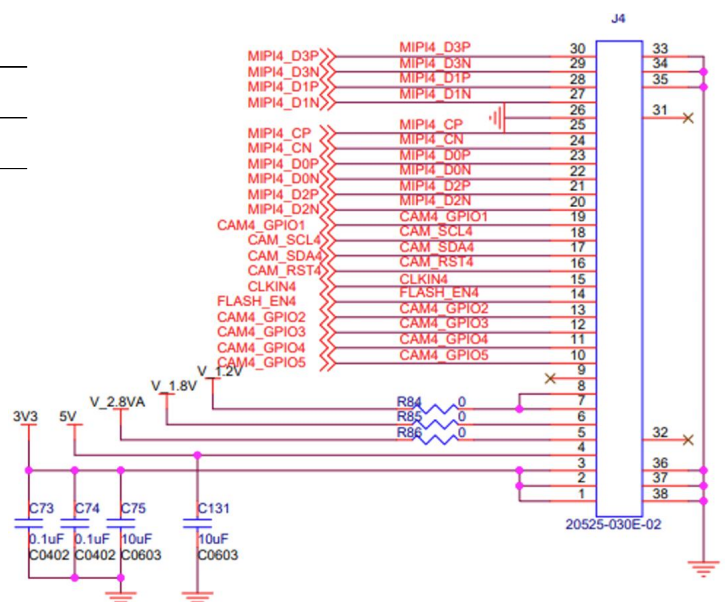
Interface J3 (Camera Channel 3)

Part Number	20525-030E-02
Connector Type	FAW-1233-XX
Connector Profile	30 pins 0.4 mm pitch



Interface J4 (Camera Channel 4)

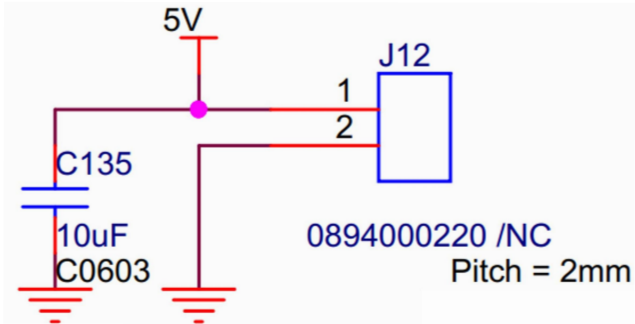
Part Number	20525-030E-02
Connector Type	FAW-1233-XX
Connector Profile	30 pins 0.4 mm pitch



*ZED Link MIPI Quad Interfaces

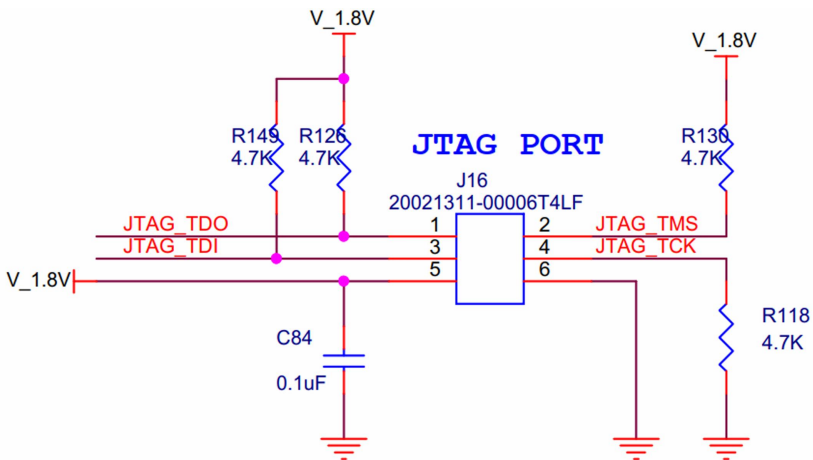
Interface J12 (External 5V power input interface)

Part Number	SWR201-NRTN-S02-SA-WH
Connector Type	JST PH 2.0
Connector Profile	2 pins 2 mm pitch



Interface J16 (FPGA programming interface)

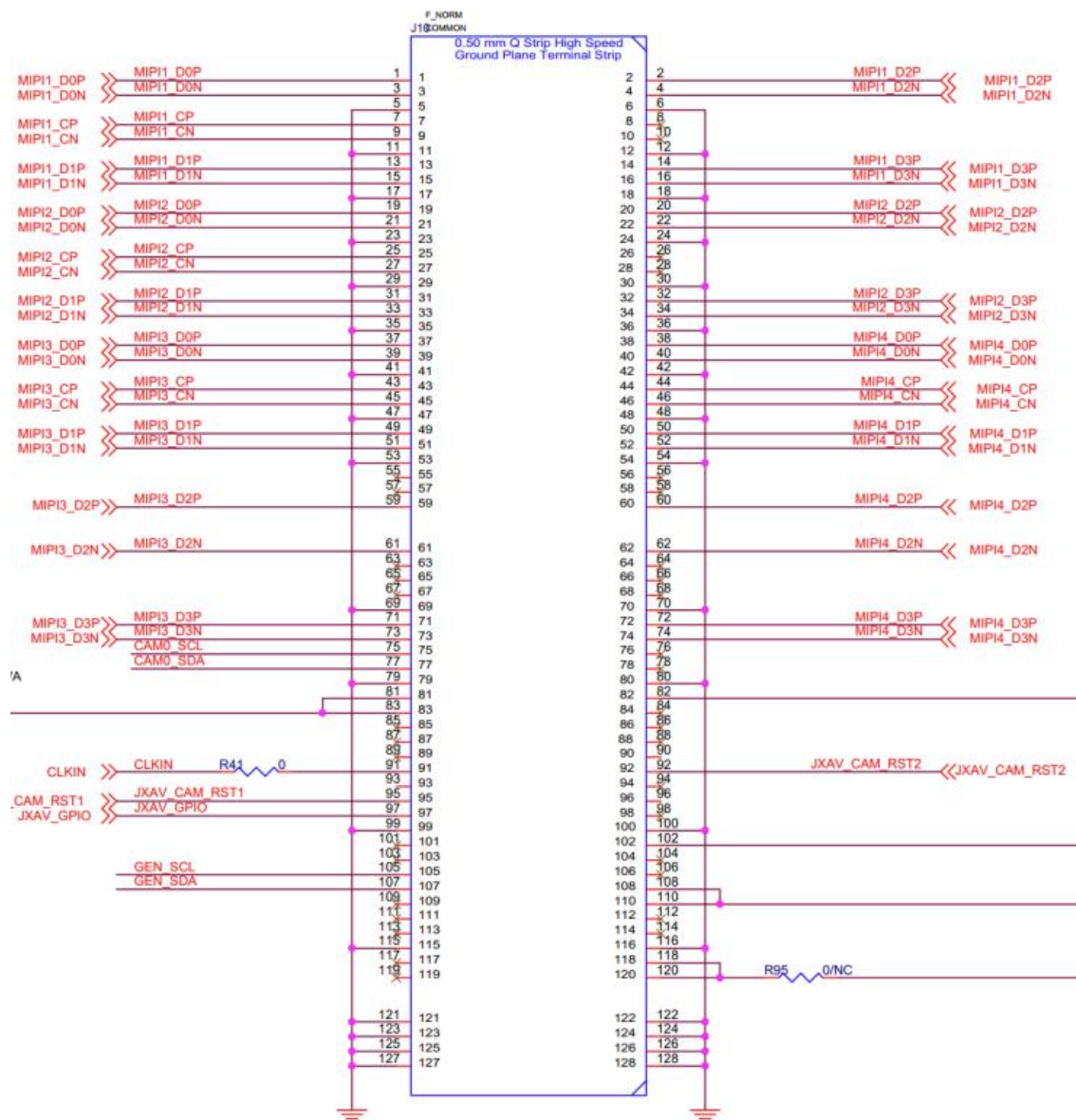
Part Number	20021311-00006T4LF
Connector Type	JTAG
Connector Profile	6 pins 1.27 mm pitch



*ZED Link MIPI Quad Interfaces

Interface J10 (Samtec to AGX)

Part Number	QTH-060-07-L-D-A
Connector Profile	120 pins 0.5 mm pitch
Connectivity	Can be used with Holoscan Sensor Bridge and AGX Orin™ Developer Kit



*ZED Link MIPI Quad Part Number

ZED Link MIPI Quad Part Number

ZED Link MIPI Quad	
SKU	ACC-213000