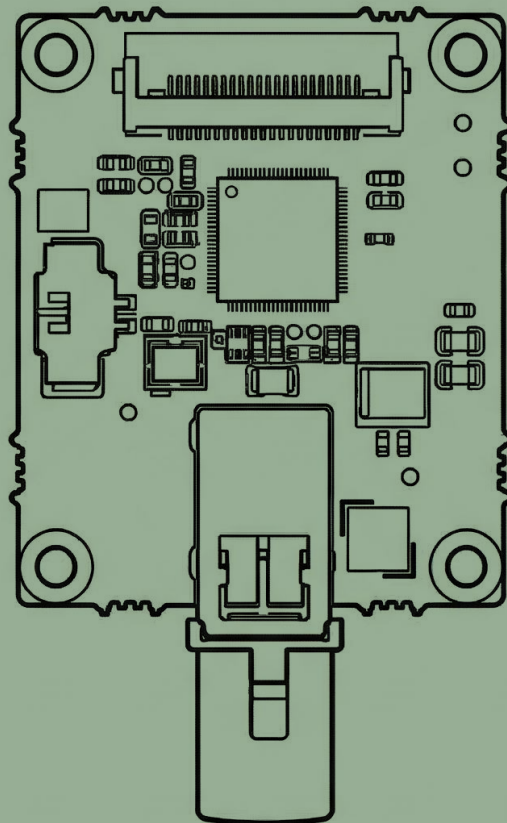


*ZED Link Capture Card Mono

Overview & Datasheet

The ZED Link Mono is a compact GMSL2 capture card that brings industrial-grade vision to the NVIDIA® Jetson Orin™ platform. Compatible with the entire ZED X camera series, it supports up to 6Gbps bandwidth with ultra-low latency and shutter-level synchronization, providing a reliable, streamlined connection for high-performance edge AI and robotics deployments requiring a single-camera setup.



*ZED Link Capture Card Mono Datasheet Revision History

Document Version	Description	Revision Date
1.0	● Initial release	March 2023
1.1	● Added: ZED Link Capture Card Mono Part Numbers	April 2026
1.2	● Minor corrections: Typos, wording	September 2026

*ZED Link Capture Card Mono

General Specifications

Ultra-Compact Integration

The ZED Link Capture Card Mono features a streamlined, ultra-compact form factor designed for space-constrained environments. At only 8g, its low-profile architecture enables seamless integration into lightweight robotic frames, autonomous drones, and restricted-volume frameworks.

Direct CSI Connectivity

Optimized for the NVIDIA® Jetson Orin™ Nano and NVIDIA® Jetson Orin™ NX, this card utilizes a MIPI CSI-2 interface for a direct, high-speed link. By bypassing complex intermediate conversion hardware, it provides a reliable, streamlined connection for single-camera deployments.

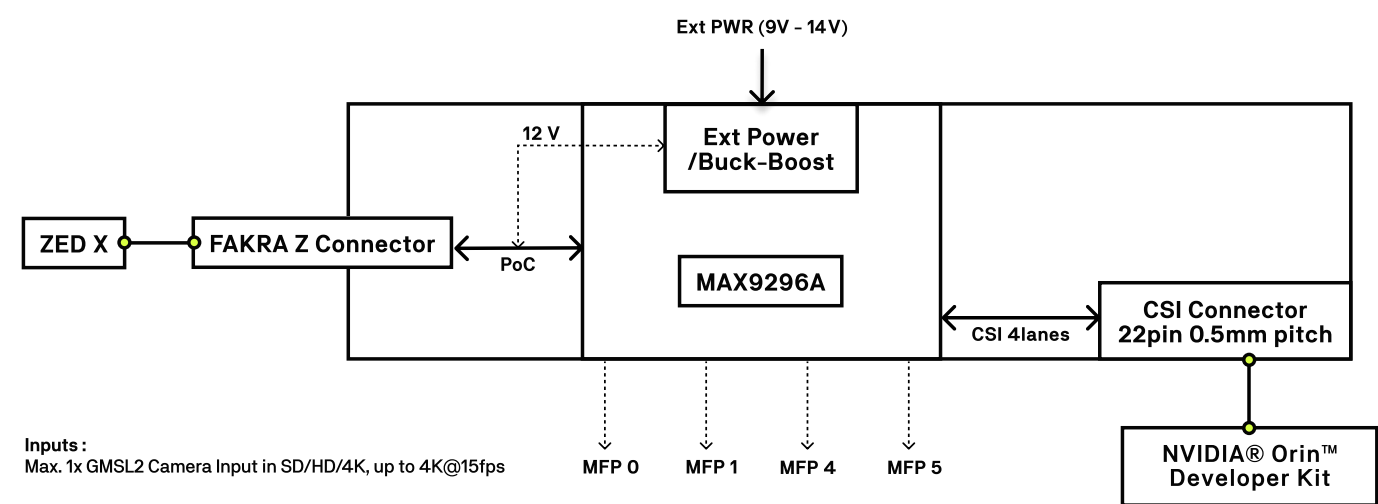
Real-Time Data Acquisition

Designed for high-fidelity data acquisition, it provides a dedicated 6Gbps bandwidth channel for a single GMSL2 input. This ensures ultra-low latency and consistent throughput for time-critical tasks such as autonomous navigation and real time industrial applications.

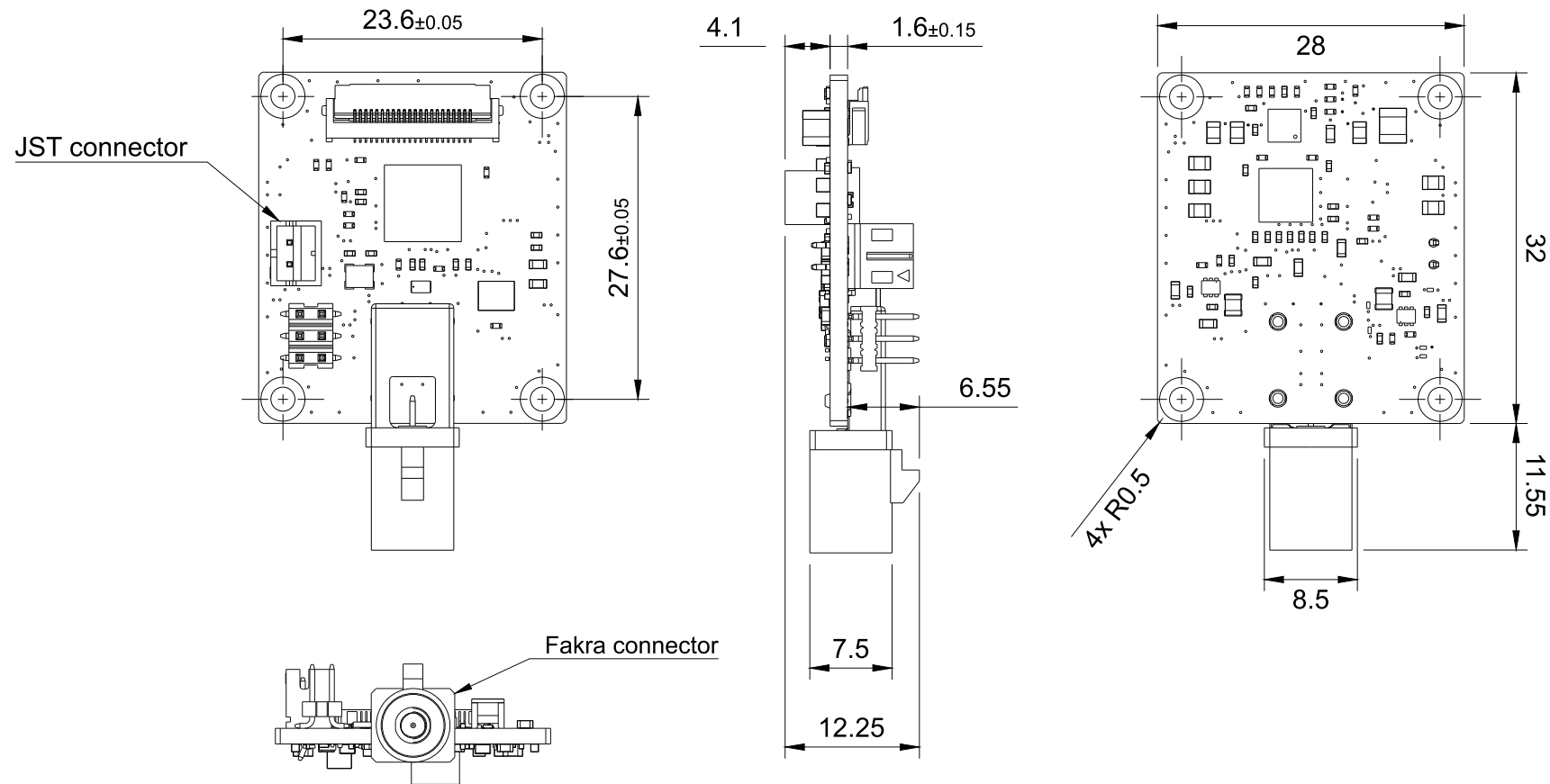
ZED Link Capture Card Mono General Specifications

Computer Compatibility	NVIDIA® Jetson Orin™ Nano NVIDIA® Jetson Orin™ NX
Camera Compatibility	ZED Link Mono is compatible with all ZED X / ZED X One camera models
Capture Capability	Max. 1x GMSL2 Camera Input in SD/HD/4K, up to 4K@15fps
Deserializer	MAX9296A
Input Voltage	9 - 14V DC
Typical Power Consumption	~0.24W
Operating Temperature	-20°C to +85°C
Weight	~8g
Features	Supports External Trigger and HW Sync Supports Power Over Cable (PoC 12V Out)

Functional Diagram



*ZED Link Capture Card Mono Technical Drawings

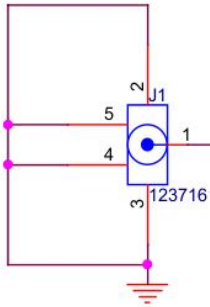


Note :
Other unmarked tolerances are $\pm 0.3\text{mm}$

*ZED Link Capture Card Mono Interfaces

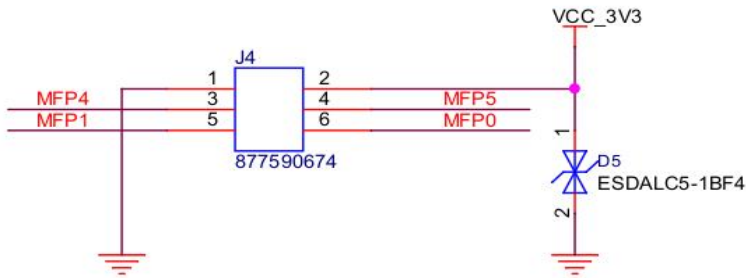
Interface J1 (Fakra)

Part Number	59S2AQ-40MT5-Z_1
Connectivity	1x GMSL2 I/O



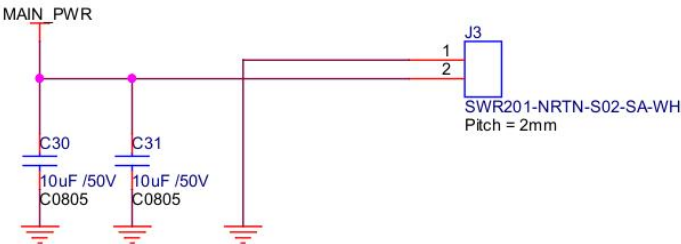
Interface J4 (GPIO Header)

Part Number	Molex 877590674
Connector Profile	6 pins 2 mm pitch
I/O Configuration 1	MFP0 is used as FSync Output (Master Mode)
I/O Configuration 2	MFP1 can be used as FSync Input (Slave Mode)



Interface J3 (External 9V - 14V)

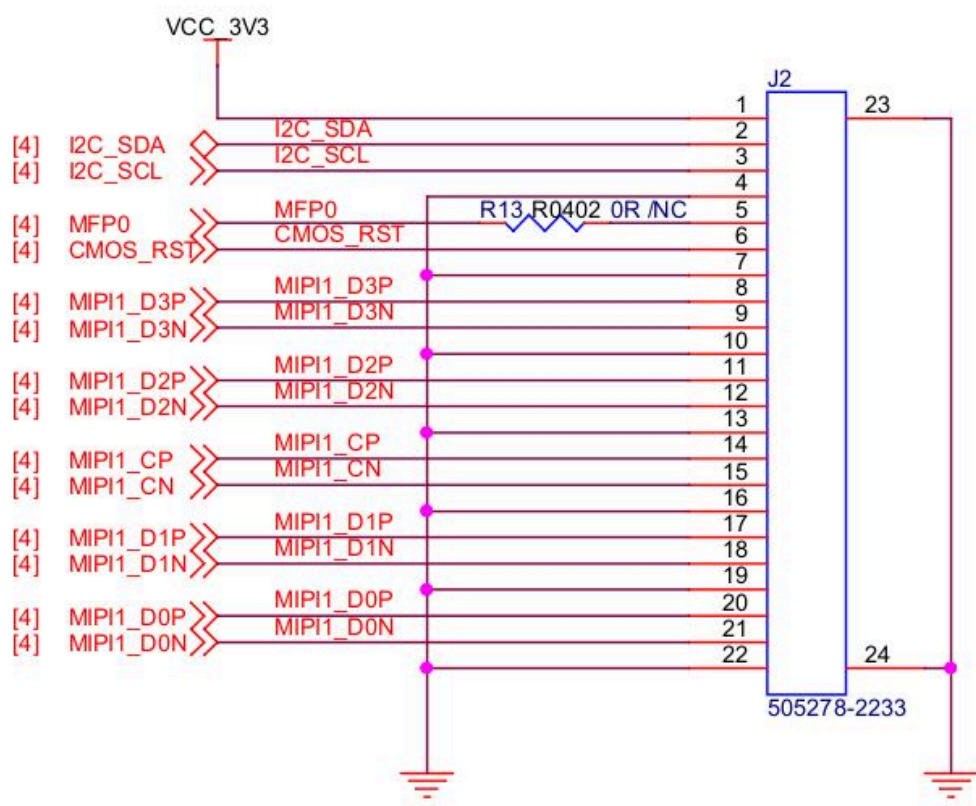
Part Number	SWR201-NRTN-S02-SA-WH or B2B-PH-K-S
Connector Profile	Pitch 2 mm



*ZED Link Capture Card Mono Interfaces

Interface J2 (MIPI CSI 22 pins)

Part Number	Molex 505278-2233
Connector Profile	22 pins 0.5 mm pitch
Connectivity	Use a 22-pin, 0.5mm pitch to 22-pin, 0.5mm pitch OPP Side cable for the Orin™ Nano/NX Developer Kits



*ZED Link Capture Card Mono Part Number

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ZED Link Capture Card Mono

SKU

ACC-211000