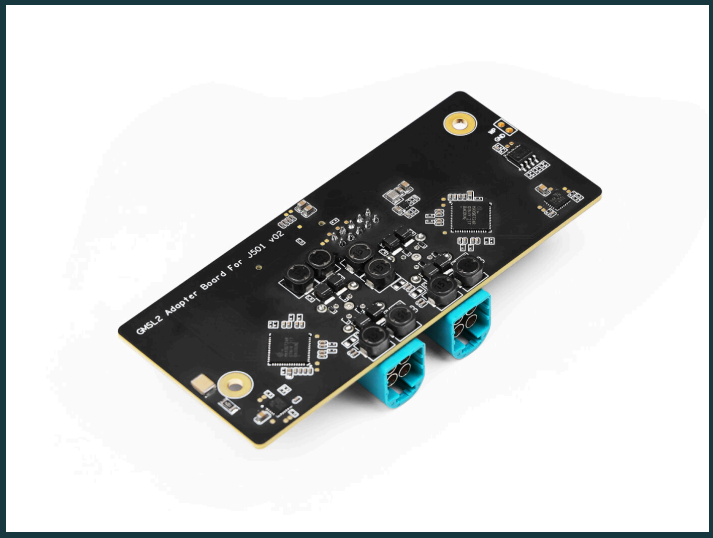
seeed studio

INDUSTRIAL PRODUCT DATASHEET

reServer Industrial J501-GMSL extension board

The J501 GMSL Extension Board is designed for J501 carrier board.

SKU	UPDATED	PRICE
102991855	2026-11-11 09:42:36	$139.00(Excl. VAT)



Overview



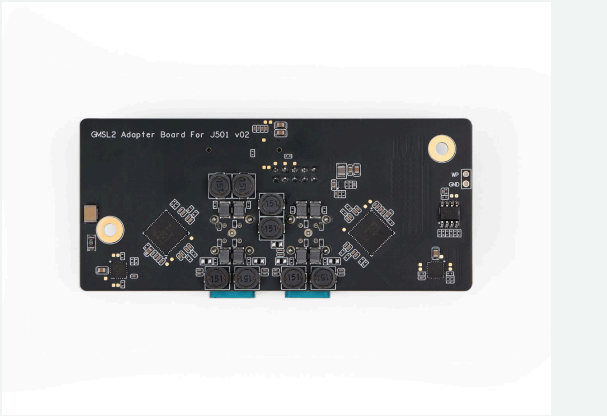
The J501 GMSL Extension Board is designed for J501 carrier board. You could use this extension to connect up to 8 GMSL camera. This carrier board is using the deserializer 'max96724'.

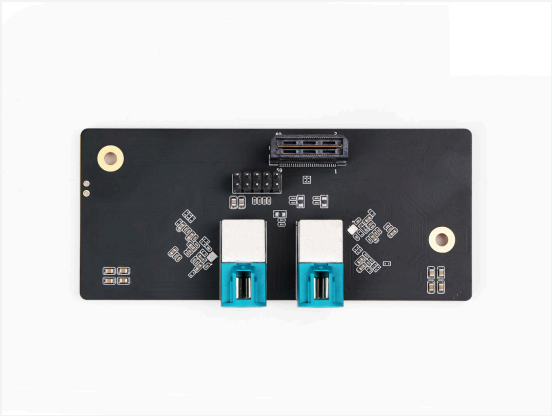
Key Features

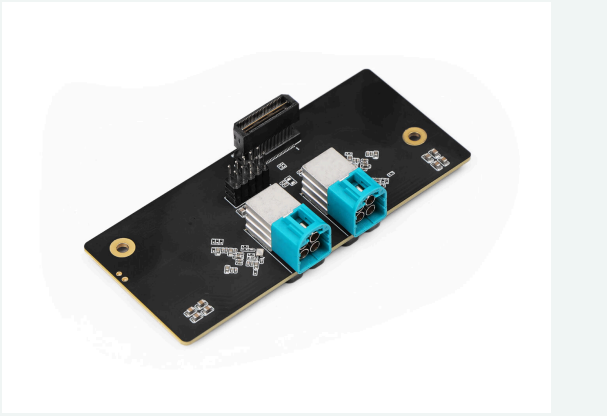
01 **8 lanes GMSL Camera Support**

02 **GMSL1 and GMSL2 Support**

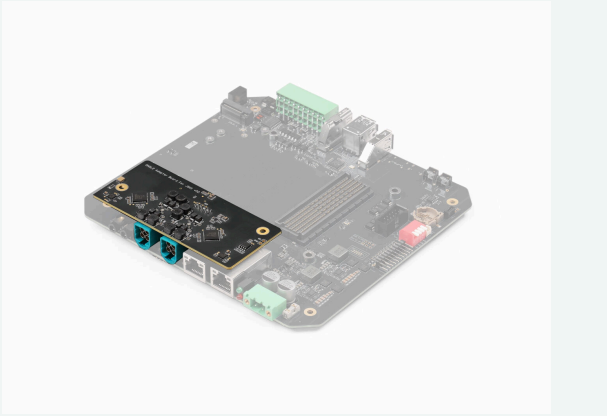
Product Gallery



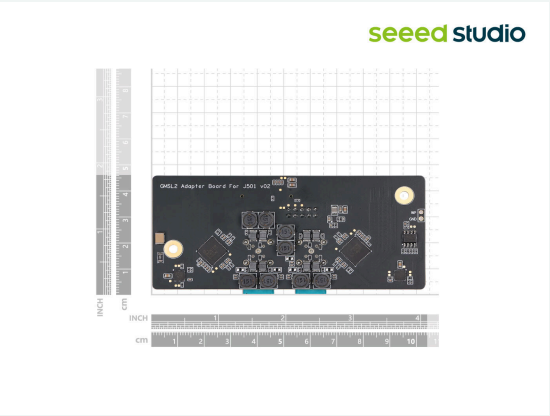




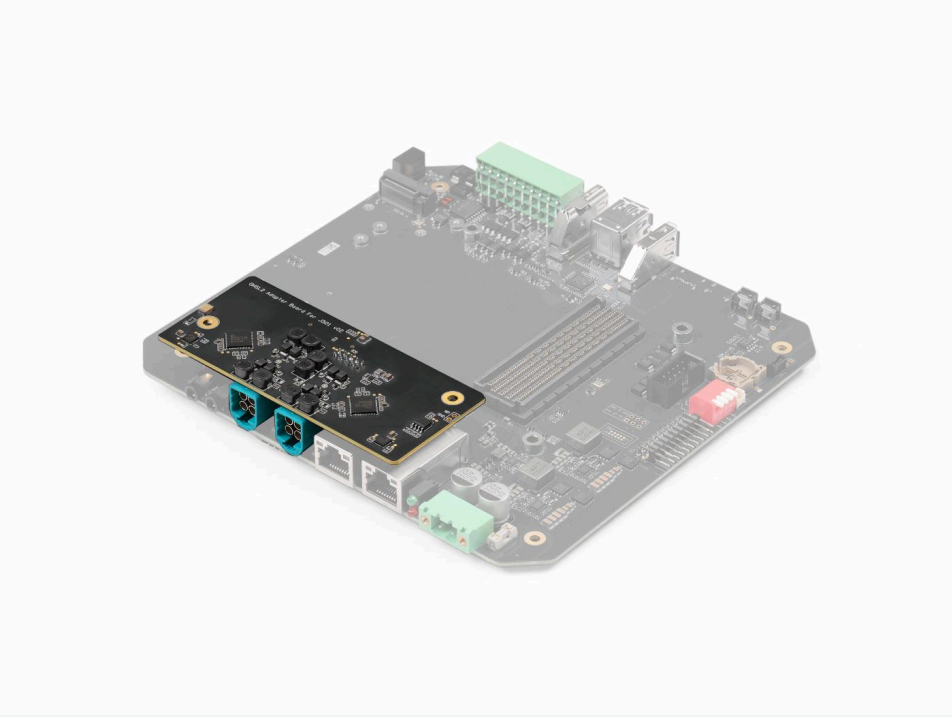








Hardware Overview



Applications

- **High-Performance Vision for reServer Industrial:** Combining a GMSL 2 camera with a reServer Industrial enables advanced vision-based robotics. Sensing 3MP GMSL 2 camera supports real-time object detection, panoramic environment awareness, and multi-camera 3D reconstruction . The high-bandwidth, low-latency GMSL 2 link supports long cable runs and multi-camera setups, while the Jetson Orin NX delivers real-time AI processing for perception, mapping, and control.
- **3D Vision and GMSL 2 Connectivity for reServer Industrial:** The reServer Industrial J501-GMSL Extension Board supports the Orbbec Gemini 335LG Stereo Vision 3D Camera, providing accurate real-time 3D perception for building autonomous machines. With the MAX96712 deserializer and mini-FAKRA connector, it ensures secure, low-latency, and reliable data transmission, ideal for AMRs, robotic arms, and collaborative robots. Precise depth sensing enables smarter navigation, robust object recognition, and reliable obstacle avoidance across mobile robots, delivery systems, and shelf-stocking applications.

Resource Links

- https://www.seeedstudio.com/reServer-Industrial-J501-GMSL-extension-board-p-5949.html
- Deserializer Datasheet
- Schematic

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