

DESIGNCORE[®]

NVIDIA[®] JETSON AGX ORIN[™] GMSL2 INTERFACE CARD

Interface up to 16 cameras or sensors to Jetson AGX Orin for high-performance and demanding AI applications

Perform AI at the edge with the world's most powerful AI computer and D3 cameras & sensors.

This card allows users to quickly interface multiple cameras or sensors with the NVIDIA Jetson AGX Orin Development Kit and speed system development. Take advantage of the incredible compute power of the Jetson AGX Orin by combining up to 16 streams of input data via the GMSL2 interface.

Sensor data is delivered via a serial link and is deserialized into MIPI CSI-2 data for consumption on the NVIDIA Jetson AGX Orin Development Kit. This allows the sensors to be placed up to 15 meters away from the processing unit.

The MAX96724 deserializers provide the capability to synchronize all 16 sensor inputs.

D3 Embedded offers cameras, radar sensors, and software design examples to help you get started. D3 Embedded can also provide customization services to interface other sensors or create new Jetson AGX Orin-based designs to meet your requirements.

SPECIFICATIONS

Inputs	16x GMSL2 Coax
Deserializers	4x ADI MAX96724
Coax Input Connectors	FAKRA 59S2AQ-40MT5-Z_1
Control	I2C, GPIO
Power	12V External (power supply included)

FEATURES

- 16x GMSL2 Input Channels
- Power-over-Coax Connection
- Programmable Synchronization
- Interfaces to NVIDIA Jetson AGX Orin Development Kit

APPLICATIONS

- Camera Monitoring Systems
- Industrial Vehicle Systems
- Machine Vision
- Robotics
- Autonomous Machines

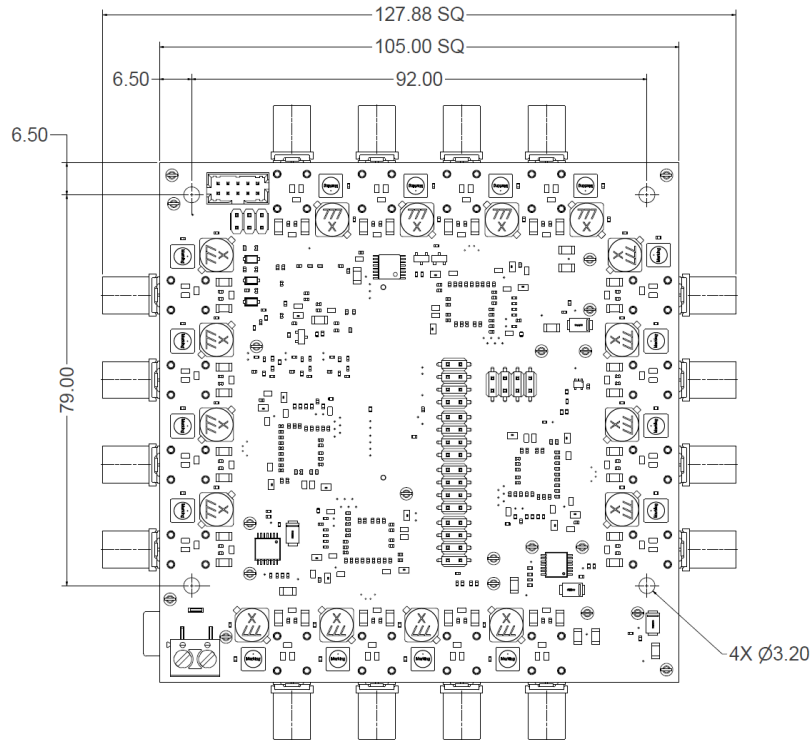


Supported Module:

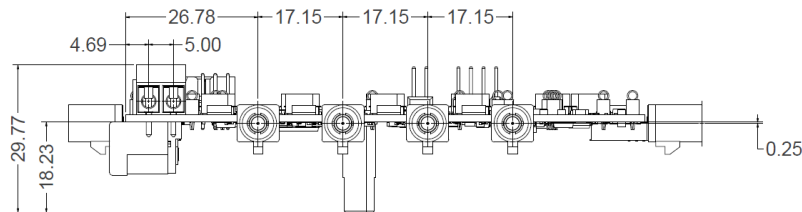
NVIDIA[®] Jetson AGX Orin[™] Development Kit

Supported Cameras:

DesignCore[®] Velocity Series (onsemi AR0234 Sensor)
DesignCore[®] Discovery Series (IMX728, IMX628, IMX390 & ISX031 Sensors)



Measurements in mm



ACCELERATE TIME TO MARKET

D3 Embedded is a 100% U.S.-based company that develops end-to-end solutions integrating camera and radar sensors, connectivity, custom Jetson baseboards, and AI to deliver advanced perception for performance-critical applications. Our software and hardware design services, off-the-shelf and customizable products, and AI development capabilities allow you to get your product to market faster and deploy edge solutions at scale.

ORDERING INFORMATION

SKU 3010069 | DesignCore® NVIDIA® Jetson AGX Orin™ GMSL2 Interface Card

Buy online at

<https://www.d3embedded.com/product/designcore-nvidia-jetson-agx-orin-gmsl2-interface-card/>



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