

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

16 FPD-Link III channels provide maximum inputs for your NVIDIA Jetson AGX Xavier Development Kit

This card allows users to quickly interface multiple cameras or sensors with the NVIDIA AGX Xavier and speed system development. Take advantage of the incredible compute power of the Jetson AGX Xavier by combining up to 16 streams of input data via the FPD-Link III interface.

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

GPIO and I2C control are available for configuration and reset. An on-board FPGA provides hardware-level synchronization capability.

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

SPECIFICATIONS

Inputs	16x FPD-Link III Coax
Deserializers	4x TI DS90UB960
Coax Input Connectors	FAKRA 59S2AQ-40MT5-Z_1
Control	I2C, GPIO
Power	12V External (power supply included)
Size (mm)	105 × 105

FEATURES

- 16x FPD-Link III Input Channels
- Power-over-Coax Connection
- FPGA for Hardware-Level Synchronization
- Interfaces to NVIDIA Jetson AGX Xavier Development Kit

APPLICATIONS

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

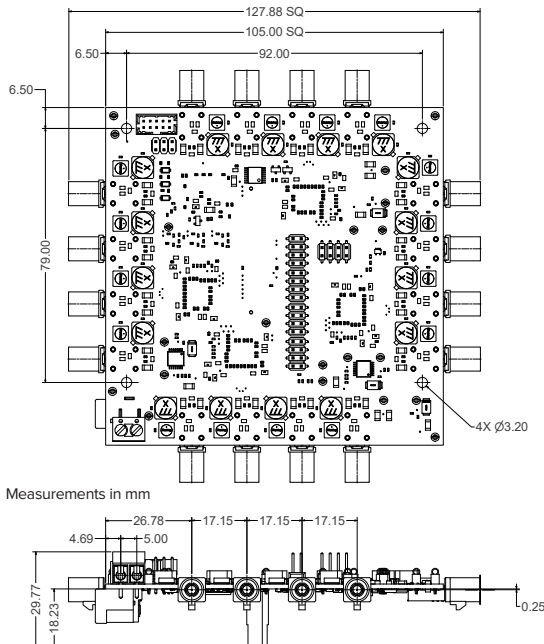
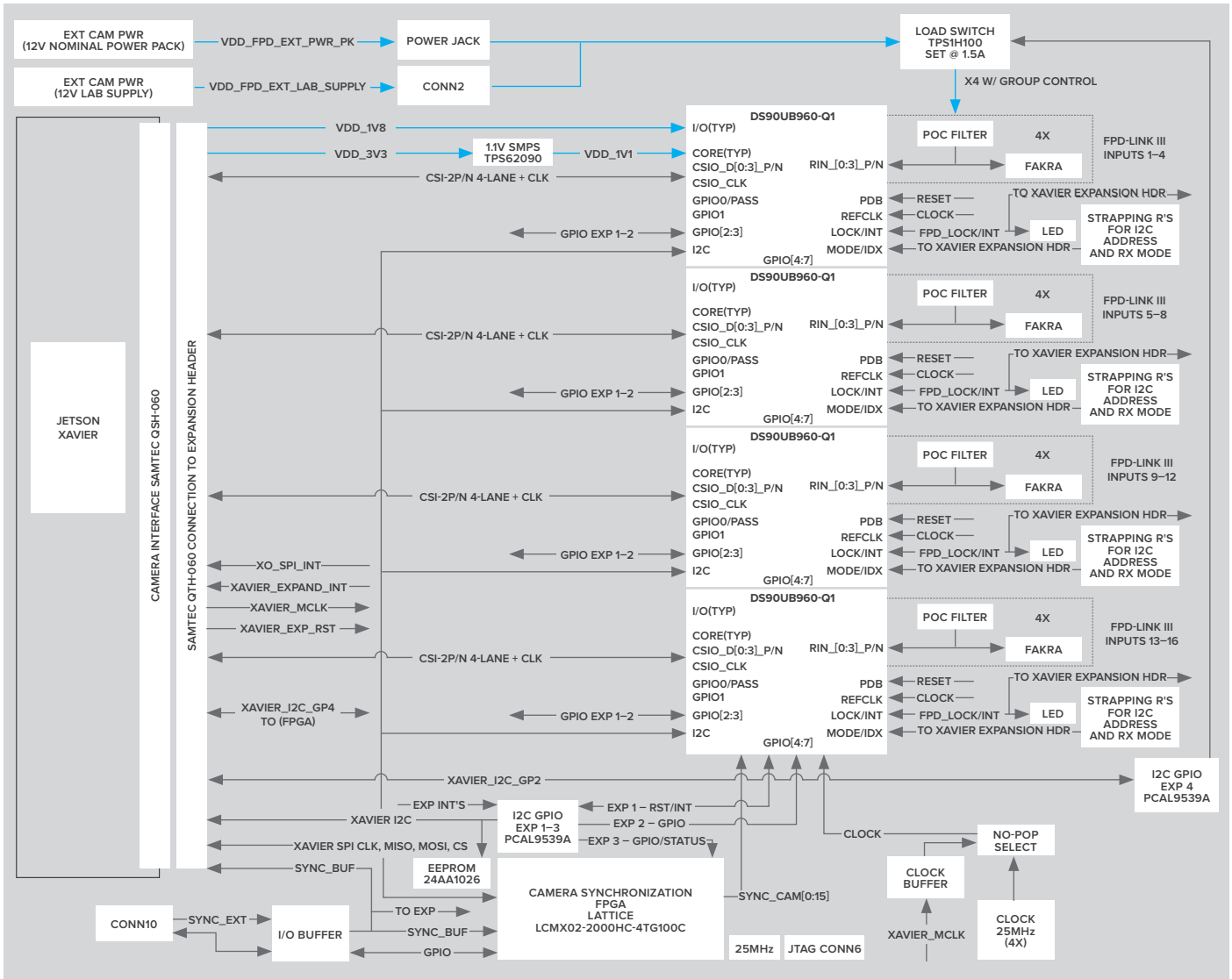
Supported Platforms & Cameras:

- D3 Camera Modules
- D3 Rugged Camera Modules
- NVIDIA Jetson AGX Xavier Development Kit



ORDERING INFORMATION

SKU 1000971 | DesignCore NVIDIA Jetson AGX Xavier FPD-Link III Interface Card



NEXT STEPS

Contact D3 Engineering for cameras, sensors, and software examples to use with the interface card. Ask us about custom vision system design using the Jetson platform.

ACCELERATE TIME TO MARKET

D3 Engineering speeds embedded system development with our proven DesignCore® camera & radar modules and full-cycle embedded product development services. Our expertise in imaging system design and our status as an NVIDIA Jetson Preferred Partner will help you get to market faster, while reducing the risks and costs of new product development.

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