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DSADDON-MIPI-AGX-6CH



KEY FEATURES

- Extensive Connectivity:** Supports up to 6 cameras. Up to 4x 2-lane and 2x 4-lane cameras or 6x 2-lane cameras can be used simultaneously.
- Versatile in Compatibility:** Both 15-pos and 22-pos connector pinouts are compliant with NVIDIA developer kit, offering extensive compatibility with wide range of cameras.
- Wide Temperature Range:** Each component on the board meets the temperature rating of -40°C to 85°C minimum.
- ESD Protection:** Each camera input is safeguarded with TVS diodes, ensuring stable performance and enhanced protection.
- No External Power Needed:** Operates efficiently without external power in low-power setups, further simplifying deployment.

TECHNICAL SPECIFICATIONS

Protocol	MIPI CSI
Camera Connections	Up to six
Connectors	FPC
Temperature Rating	-40°C to +85°C
Protection	ESD protection for each camera input

The DSADDON-MIPI-AGX-6CH is a high-performance MIPI CSI expansion module designed to extend camera input capabilities for NVIDIA Jetson-based systems. Supporting up to six camera connections either 6x 2-lane or a mix of 4x 2-lane and 2x 4-lane—the board enables flexible configurations to meet diverse imaging needs in edge AI applications. Its compatibility with both 15-position and 22-position FPC connectors ensures seamless integration with a wide range of MIPI cameras, fully compliant with NVIDIA's Jetson developer kits.

Engineered for industrial reliability, the board operates in extreme environments with a wide temperature range of -40°C to +85°C and features built-in ESD protection for each camera input via TVS diodes. The DSADDON-MIPI-AGX-6CH requires no external power, making it ideal for compact, power-sensitive deployments. With robust design and versatile connectivity, it is an optimal solution for advanced applications in industrial automation, robotics, drones, surveillance systems, and medical imaging.

This solution is optimal for use in Jetson based application, where all available MIPI CSI connections are to be utilized and reliability and durability are critical.



Industrial Automation



Surveillance Systems



Healthcare



Robotics



Drones/UAVs

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