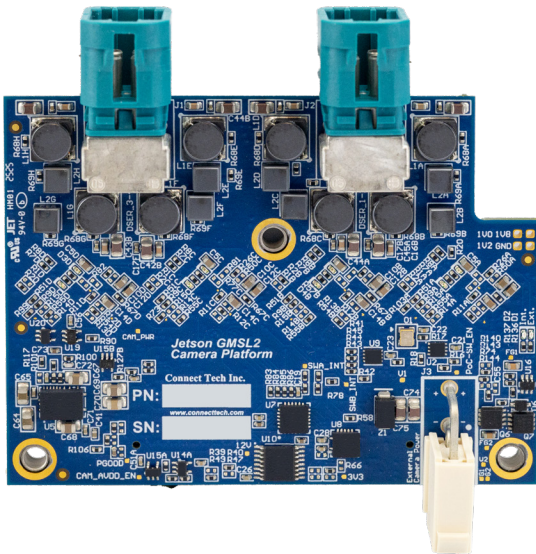




The GMSL2 Plus Camera Platform is an expansion board that allows up to 8 cameras to be connected to the NVIDIA® Jetson AGX Orin™ and Jetson Thor™ T5000 modules.



Power to the cameras is provided by PoC (Power over Coax) so all the data, control signals, and power are sent through a single 50 Ohm Coaxial cable. This allows for flexibility in cable routing and ease of installation in automotive applications. The main power for the board comes from the Camera Expansion Header.



The board is compatible with GMSL2 cameras up to 6GBps. Each quad coax connector can be configured independently via software to set the channel modulation and tunnel/pixel mode.

## FEATURES

- ✓ GMSL2 protocols
- ✓ Compact size
- ✓ Internal or External Camera power
- ✓ 4x mini coax connector
- ✓ Power over Coax
- ✓ Input voltage protection
- ✓ Software power cycle

## SPECIFICATIONS

<b>Size</b>	75 mm x 57 mm (2.95" x 2.24")	<b>Weight</b>	45 g (1.59 oz)
<b>NVIDIA Jetson Connection (Uplink)</b>	1x High Density Connector - Camera Board will mate to the Connect Tech "Camera Expansion Header"	<b>GMSL Camera Inputs</b>	8x Total (GMSL2) - 2x per Deserializer
<b>Deserializer</b>	Maxim MAX9296A <ul style="list-style-type: none"> <li>• Converts single or dual GMSL2 serial inputs to MIPI CSI-2</li> <li>• Backwards compatible with GMSL1</li> </ul>	<b>MIPI Output</b>	A single 4-lane MIPI CSI-2 v1.3 output from each Deserializer (16-lanes total)
<b>Camera Input Connectors</b>	2x MATE-AX Quad Coax Connectors Breakout cables to FAKRA available	<b>PoC (Power-Over-COAX)</b>	All 8 cameras will be sourced Power-Over-COAX from JCB022
<b>PoC Monitor</b>	Ability to monitor the voltage and current used by the PoC connection	<b>Short Protection and Detection</b>	Ability to detect a short and protect against short-to-battery, short-to-ground and overcurrent conditions by use of the Maxim MAX20087
<b>GMSL Mode Selection</b>	Ability to configure and save the GMSL mode through software accessible GPIO allowing the configuration of the Deserializer to use different modes by use of the DS4520 memory backed I2C GPIO device.	<b>Power</b>	Can be directly powered from Camera Expansion Header or External +12V Input
<b>Operating Temperature</b>	-40°C to +85°C (-40°F to +185°F)	<b>Warranty and Support</b>	1 Year Warranty and Free Technical Support



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