



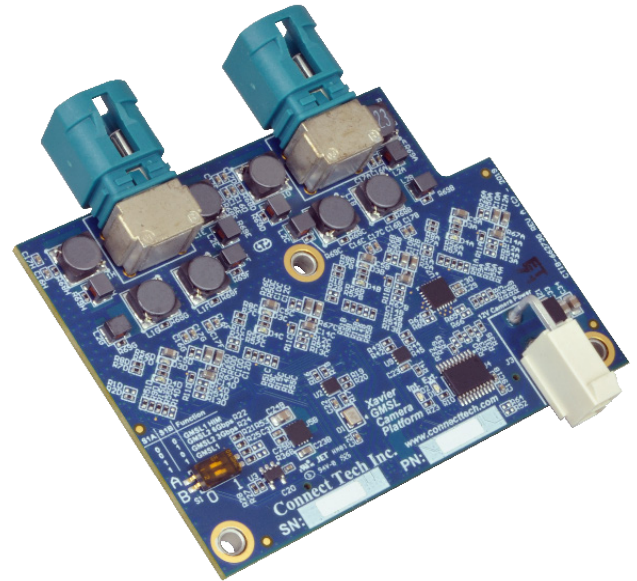
Xavier GMSL2 Camera Platform

Connect Tech's GMSL camera platform is an expansion board that allows up to 8 cameras to be connected to the Jetson Xavier module. It was designed for the Rogue carrier but is also compatible with the NVIDIA® Jetson AGX Xavier™ Development Kit.

Since many different types of GMSL cameras are available, the JCB002 has user selectable options to interface with either GMSL1 or GMSL2 protocols at different operating frequencies. 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.

The GMSL2 camera platform is ideal for those needing a more robust MIPI solution allowing for longer length cabling as well as a direct path to the Xavier ISPs

Product Name: Xavier GMSL2 Camera Platform
Part Number: JCB002



Specifications	
Size	75mm x 57mm
Weight	50g
NVIDIA Xavier Connection (Uplink)	1x High Density Connector Camera Board will mate to the NVIDIA Jetson "Camera Expansion Header"
(GMSL) Camera Inputs	8x Total (GMSL2/GMSL1)
Deserializer	Maxim MAX9296A
MIPI Output	A single 4-lane MIPI CSI-2 v1.3 output from each Deserializer (16-lanes total)
Camera Input Connectors	2x MATE-AX Quad Coax Connectors Breakout cables to FAKRA available
PoC (Power-Over-COAX)	All 8 cameras will be sourced Power-Over-COAX from JCB002
Power	Can be directly powered from Camera Expansion Header or External +12V Input
Operating Temperature	-40°C to +85°C
Warranty and Support	1 Year Warranty and Free Technical Support

FEATURES

- ✓ GMSL1 or GMSL2 protocols
- ✓ Internal or External Camera power
- ✓ Power over Coax
- ✓ Compact size
- ✓ 4x mini coax connector
- ✓ Input voltage protection
- ✓ Software power cycle

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