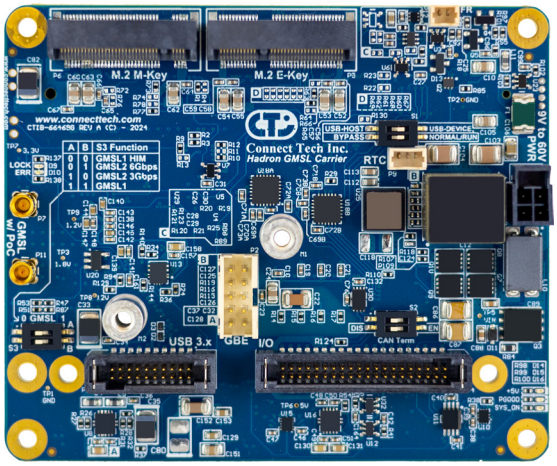
HADRON GMSL CARRIER BOARD

FOR NVIDIA® JETSON ORIN™ NX
& NVIDIA® JETSON ORIN™ NANO

PART NUMBER: NGX018

The Hadron GMSL Carrier Board for Orin™ NX and Orin™ Nano stands out as an ultra-compact, robust, and feature-rich solution, boasting dual GMSL2 camera inputs.

It ensures high-speed, dependable data communication, crucial for autonomous applications. Just slightly larger than the Jetson™ SODIMM module, Hadron is perfect for GMSL vision applications, inference processing, and unmanned payloads, making it an ideal choice for AI computing at the Edge.



Hadron GMSL accepts a wide input voltage range, provides a comprehensive I/O set, with locking I/O connectors optimized for rugged environments.

FEATURES

- ✓ Rugged latching connectors
- ✓ GPIO, PWM, I2C, RS-232, CAN, DEBUG UART
- ✓ 2x USB3.2, 1x GbE, 2x GMSL Coax Ports, 1x 2242 NVMe (M-Key), 1x M.2 E-Key (WiFi/BT)
- ✓ Wide Input Range: +9V to +60V (+12V to +48V Nominal)

SPECIFICATIONS

Jetson Module Compatibility	NVIDIA Jetson Orin™ NX NVIDIA Jetson Orin™ Nano	**USB**	2 x USB 3.2 Gen 1x1 (5 Gbps) with Rugged Postive Locking Pin Headers (High-Speed Cabling Option Available)
Networking	1x 1000BASE-T with Rugged Postive Locking Pin Headers	**Storage**	1x 2242 NVMe (M-Key)
GMSL Camera Inputs	2x GMSL2 Camera inputs w/ PoC with MMCX Coax Connectors (MIPI CSI-2 Access to Jetson)	**Misc Interfaces**	1x CAN 2.0b 1x 3.3V Debug UART (CONSOLE) 2x RS-232 Serial Ports 4x 3.3V GPIO (2 PWM Capable) 1x 3.3V I2C Power Output 3.3V, 5V (Max 500mA Each)
Operating Temperature	-25°C to +85°C (-13°F to 185°F)	**Expansion**	1x M.2 E-Key for WiFi/BT
FAN	5V Fan Connector	**Power Input**	Wide Power Input: +9V to +60V DC (+12V to +48V DC Nom.)
Power - RTC Battery	3-Pin RTC Battery Connector	**Weight**	58g
Warranty and Support	1 Year Warranty and Free Support	**Dimensions**	82.7mm x 68.8mm (3.25" x 2.71")

RoHS

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