Connect Tech

HADRON CARRIER BOARD

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

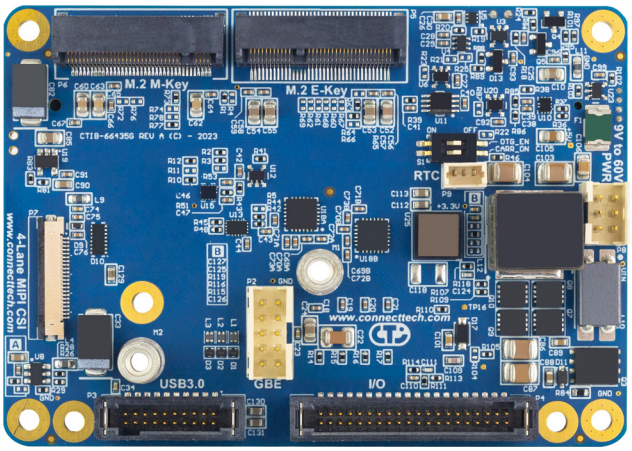
PART NUMBER: NGX012

The Hadron Carrier Board for NVIDIA® Jetson Orin™ NX is an ultra small, rugged and feature rich carrier for AI Computing at the Edge.

NVIDIA Elite Partner

Just slightly larger than the Jetson™ SODIMM module, Hadron is ideal for vision applications, inference, and unmanned payloads.

Since the Hadron carrier board is compatible with the Jetson Orin™ NX, Orin™ Nano, Xavier™ NX, and TX2 NX modules, users can transition between modules depending on their AI processing requirements.



Hadron's design includes a wide input voltage, rich I/O set as well as locking IO connectors optimized for rugged environments.

FEATURES

- ✓ Rugged latching connectors
- ✓ 2x USB 3.1, 1x GbE, 1x 4-Lane, mipi CSI2, 1x 2242/2230 NVMe, 1x M.2 E-Key (WiFi/BT)
- ✓ GPIO, PWM, I2C, RS-232, 3.3V UART, SPI
- ✓ Wide Input Range: +9V to +60V

SPECIFICATIONS

Ethernet	1x 1000BASE-T Ports (Connector: Positive Locking Pin Headers)	**USB**	2x USB 3.1 (Gen 1) • 1x Host Only • 1x Dual Function – Host / Device mode (Selectable by S1 switch)
Dimensions	82.6mm x 58.8mm (3.25" x 2.31")	**Storage**	1x 2242/2230 NVMe (M-Key)
MIPI Cameras	1x 4-lane MIPI CSI-2 - 22-pin FPC Connector	**Misc Interfaces**	1x 3.3VTTL UART (CONSOLE) 2x RS-232 Serial Ports 4x GPIO – 2x PWM Capable 1x 3.3V I2C 1x 3.3V SPI Power Output 3.3V, 5V (Max 500mA Each)
Operating Temperature	-25°C to +85°C (-13°F x 185°F)	**Expansion**	1x M.2 E-Key for WiFi/BT
FAN	1x 4-pin Fan Connector (5V 1x4 Picoblade)	**Power Input**	Wide Power Input: +9V to +60V DC (+12V to +48V DC Nom.)
Power - RTC Battery	3-Pin RTC Battery Connector	**Weight**	49g
Warranty and Support	1 Year Warranty and Free Support	**Specification changes when used with Xavier NX, TX2-NX**	1x USB 3.1 1x USB 2.0

RoHS

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