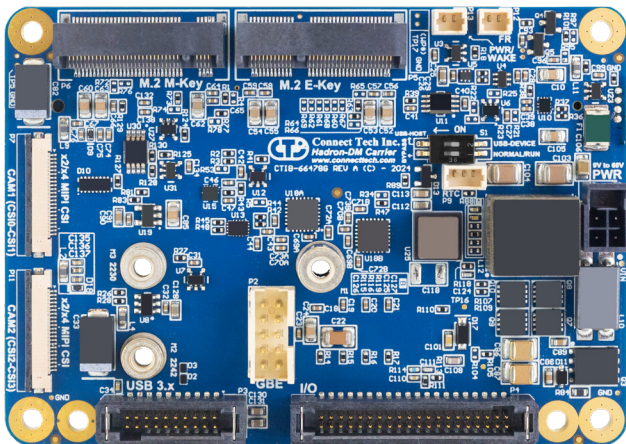


The Hadron-DM Carrier Board for Jetson Orin™ NX is an ultra small, rugged and feature rich carrier for AI Computing at the Edge.



Just slightly larger than the Jetson™ SODIMM module, Hadron is ideal for vision applications, inference, and unmanned payloads. Hadron-DM features Dual MIPI CSI-2 connectors for greater versatility.

Since the Hadron-DM carrier board is compatible with the Jetson Orin™ NX, and Jetson Orin™ Nano 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
- ✓ GPIO, PWM, I2C, RS-232, 3.3V UART, SPI
- ✓ 2x USB3.1, 1x GbE, 1x 4-Lane, 2x MIPI CSI2, 1x 2242/2230 NVMe, 1x M.2 E-Key (WiFi/BT)
- ✓ Wide Input Range: +9V to +60V (+12V-+48V Nominal)

SPECIFICATIONS

| | | | |
|------------------------------|--|------------------------|--|
| Ethernet | 1x 1000BASE-T Ports (Connector: Positive Locking Pin Headers) | USB | 2 x USB 3.1 (Gen 1) 1x USB 2.0 Programming Port (HD pin headers) |
| Dimensions | 82.6mm x 58.8mm (3.25" x 2.31") | Storage | 1x 2242/2230 NVMe (M-Key) |
| MIPI Cameras | 2x 4-lane MIPI CSI-2 - 22-pin FPC Connector | Misc Interfaces | 1x 3.3VTTL UART (CONSOLE) 2x RS-232 Serial Ports 2x PWM capable GPIO 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 | 56g |
| Warranty and Support | 1 Year Warranty and Free Support | | |