



## Hadron Carrier - Comparison Chart

Product Name	Hadron Carrier for NVIDIA® Jetson Orin™ NX and Jetson Orin™ Nano	Hadron GMSL Carrier for NVIDIA® Jetson Orin™ NX and Jetson Orin™ Nano	Hadron-DM Carrier for NVIDIA® Jetson Orin™ NX and Jetson Orin™ Nano
Board Model Name	NGX012	NGX018	NGX024
<b>Feature Differences</b>			
Ethernet	1x 1000BASE-T Ports (Connector: Positive Locking Pin Headers)	1x 1000BASE-T Ports with Rugged Positive Locking Pin Headers	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)	2 x USB 3.2 Gen 1x1 (5 Gbps) with Rugged Positive Locking Pin Headers (High-Speed Cabling Option Available)	2 x USB 3.1 (Gen 1) 1x USB 2.0 Programming Port (HD pin headers)
Cameras Inputs	1x 4-lane MIPI CSI-2 • 22-pin FPC Connector	2x GMSL2 Camera inputs w/ PoC with MMCX Coax Connectors • MIPI CSI-2 Access to Jetson	2x 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)	1x 3.3V Debug UART (CONSOLE) 2x RS-232 Serial Ports 4x 3.3V GPIO – 2x PWM Capable 1x 3.3V I2C 1x CAN 2.0b Power Output 3.3V, 5V (Max 500mA Each)	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)
Storage	1x 2242/2230 NVMe (M-Key)	1x 2242 NVMe (M-Key)	1x 2242/2230 NVMe (M-Key)
Dimensions	82.6mm x 58.8mm (3.25" x 2.31")	82.7mm x 68.8mm (3.25" x 2.71")	82.6mm x 58.8mm (3.25" x 2.31")
Weight	49g	58g	56g
<b>Consistent Features</b>			
Operating Temperature	-25°C to +85°C (-13°F x 185°F)	-25°C to +85°C (-13°F x 185°F)	-25°C to +85°C (-13°F x 185°F)
Expansion	1x M.2 E-Key for WiFi/BT	1x M.2 E-Key for WiFi/BT	1x M.2 E-Key for WiFi/BT
FAN	1x 4-pin Fan Connector (5V 1x4 Picoblade)	1x 4-pin Fan Connector (5V 1x4 Picoblade)	1x 4-pin Fan Connector (5V 1x4 Picoblade)
Power Input	Wide Power Input: +9V to +60V DC (+12V to +48V DC Nom.)	Wide Power Input: +9V to +60V DC (+12V to +48V DC Nom.)	Wide Power Input: +9V to +60V DC (+12V to +48V DC Nom.)
Power - RTC Battery	3-Pin RTC Battery Connector	3-Pin RTC Battery Connector	3-Pin RTC Battery Connector
Warranty and Support	1 Year Warranty and Free Support	1 Year Warranty and Free Support	1 Year Warranty and Free Support

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