



NVIDIA® Jetson Nano™ & Jetson Xavier™ NX Carrier Boards- Comparison Chart

Name	Quark Carrier	Photon Carrier
		
Part Number	NGX004	NGX002
Dimensions	82.6mm x 58.8mm (3.25" x 2.31")	145mm x 64.5mm (5.7" x 2.53")
Ethernet	2x 1000BASE-T Ports <ul style="list-style-type: none"> • 1x GBE from Jetson GBE Port • 1x GBE from PCIe x1 i210 PHY 	1x 1000BASE-T Uplink <ul style="list-style-type: none"> • PoE IEEE 802.3af-2003 (15.4W) PD • PoE+ IEEE 802.3at-2009 (25.5W) PD • Capable of operating on either network • PoE Bypass Option Available
USB + OTG	1x USB 3.1	1x USB 3.0 1x USB 2.0 OTG 1x USB FTDI UART
MIPI Cameras	2x 2-lane MIPI CSI-2	2x 2-lane MIPI CSI-2
Misc Interfaces	3x UARTs 8x GPIO 2x I2C 3.3V 1x CAN 2.0b 1x SPI	1x I2C 4x GPIO 1x Power Output
Storage	1x Micro SD Card Slot	1x SD Card Slot 1x NVMe (M.2 M-KEY)
Display Output	None (Headless Operation only)	1x HDMI
Wireless Expansion	n/a	1x WiFi Module 1x LTE Module
FAN	1x 4-pin Fan Connector (5V, 1x4 Picoblade)	1x 4-pin Fan Connector (5V, 1x4 Picoblade)
Power Input	+5V DC Input (Positive Locking MiniTek Connector)	1x 2mm DC Barrel Jack +12V DC Input
Power – RTC Battery	3-Pin RTC Battery Connector (Rev C and onwards)	
Operating Temperature	-25°C to +85°C (-13°F to +185°F)	-25°C to +85°C (-13°F to +185°F)
Weight	33g (1.16oz)	76g (2.68oz)