



**Connect Tech Inc.**  
Embedded Computing Experts

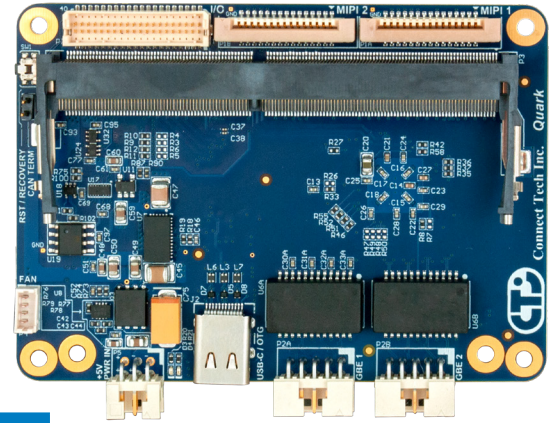
# Quark Carrier for NVIDIA® Jetson Xavier NX™ & Nano™

Connect Tech's Quark Carrier for NVIDIA® Jetson Xavier™ NX & Nano is an ultra small, feature rich carrier for AI Computing at the Edge. Just slightly larger than the Jetson SODIMM module, its ideal for vision applications, inference, and unmanned payloads.

Quark's design includes a rich I/O set including 1x USB 3.1, 2x GbE, 2x 2-lane MIPI CSI-2, 1x USB OTG, 1x SD card slot, 3x 3.3V UART, 2 x I2C, 1x CAN 2.0b, and 1x SPI as well as positive locking IO connectors optimized for rugged environments.

**Jetson Xavier NX & Nano Carrier**  
**QUARK**

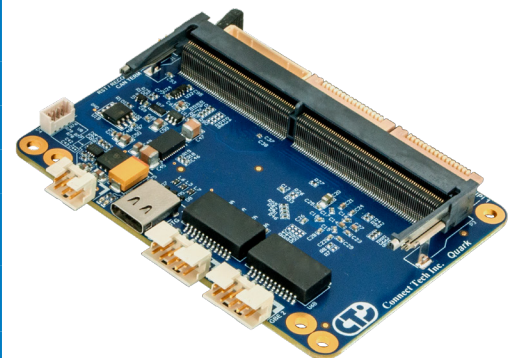
**Product Name:** Quark  
**Part Number:** NGX004



Specifications	
<b>Compatibility</b>	NVIDIA Jetson Nano, NVIDIA Jetson Xavier NX
<b>Dimensions</b>	82.6mm x 58.8mm
<b>Ethernet</b>	2x 1000BASE-T Ports (Connector: Positive Locking Pin Headers)  1x GBE from Jetson GBE Port 1x GBE from PCIe x1 i210 PHY
<b>USB + OTG</b>	1x USB 3.1 (Connector: USB Type-C) w/ USB0 OTG connection
<b>MIPI Cameras</b>	2x 2-lane MIPI CSI-2 (Connector: 1-1734248-5) • 15-pin FPC 1mm Pitch Connector Same MIPI connector used on Nano Dev Kit
<b>Misc Interfaces</b>	3x 3.3V TTL UARTs (1x CONSOLE) 8 GPIOs 3.3V TTL (2x PWM Capable) 2x I2C 3.3V 1x CAN 2.0b 1x SPI (Connector: 40-pin DF20)
<b>Storage</b>	1x Micro SD Card Slot
<b>Display Output</b>	None (Headless Operation only)
<b>FAN</b>	1x 4-pin Fan Connector (1x4 Picoblade)
<b>Power Input</b>	+5V DC Input (Connector: Positive Locking Pin Header)
<b>Operating Temperature</b>	-40°C to +85°C
<b>Weight</b>	TBD
<b>Warranty and Support</b>	1 Year Warranty and Free Support

## FEATURES

- ✓ *Smaller than the Dev Kit:  
82.6mm x 58.8mm*
- ✓ *1x USB 3.1, 2x GbE,  
2x 2-lane MIPI CSI-2, 1x USB OTG*
- ✓ *1x SD card slot, 3x 3.3V UART, 2 x  
I2C, 1x CAN 2.0b, and 1x SPI*
- ✓ *+5V DC Input*



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**RoHS**

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CTIX-00185(0.00) - 2020-02-18