



## Quark Carrier - Compatibility Specs

Module	NVIDIA® Jetson Xavier™ NX	NVIDIA® Jetson™ TX2 NX	NVIDIA® Jetson Nano™
<b>Feature Differences</b>			
USB + OTG	1x USB 3.1 (Gen 3) (USB Type-C Connector) w/ USB0 OTG connection	1x USB 3.1 (Gen 2) (USB Type-C Connector) w/ USB0 OTG connection	1x USB 3.1 (Gen 2) (USB Type-C Connector) w/ USB0 OTG connection
CAN	1x CAN 2.0b	1x CAN 2.0b	CAN unavailable
<b>Consistent Features</b>			
Dimensions	82.6mm x 58.8mm (3.25" x 2.31")	82.6mm x 58.8mm (3.25" x 2.31")	82.6mm x 58.8mm (3.25" x 2.31")
Ethernet	2x 1000BASE-T Ports (Positive Locking MiniTek Connectors) <ul style="list-style-type: none"> <li>• 1x GBE from Jetson GBE Port</li> <li>• 1x GBE from PCIe x1 i210 PHY</li> </ul>	2x 1000BASE-T Ports (Positive Locking MiniTek Connectors) <ul style="list-style-type: none"> <li>• 1x GBE from Jetson GBE Port</li> <li>• 1x GBE from PCIe x1 i210 PHY</li> </ul>	2x 1000BASE-T Ports (Positive Locking MiniTek Connectors) <ul style="list-style-type: none"> <li>• 1x GBE from Jetson GBE Port</li> <li>• 1x GBE from PCIe x1 i210 PHY</li> </ul>
MIPI Cameras	2x 2-lane MIPI CSI-2 (Connector: 1-1734248-5) <ul style="list-style-type: none"> <li>• 15-pin FPC 1mm Pitch Connector</li> </ul>	2x 2-lane MIPI CSI-2 (Connector: 1-1734248-5) <ul style="list-style-type: none"> <li>• 15-pin FPC 1mm Pitch Connector</li> </ul>	2x 2-lane MIPI CSI-2 (Connector: 1-1734248-5) <ul style="list-style-type: none"> <li>• 15-pin FPC 1mm Pitch Connector</li> <li>• Same MIPI connector used on Nano Dev Kit</li> </ul>
Misc Interfaces	Connector: 40-pin DF20 <ul style="list-style-type: none"> <li>• 3x 3.3V TTL UARTs (1x CONSOLE)</li> <li>• 8 GPIOs 3.3V TTL (1x PWM Capable)</li> <li>• 2x I2C 3.3V</li> <li>• 1x SPI</li> </ul>	Connector: 40-pin DF20 <ul style="list-style-type: none"> <li>• 3x 3.3V TTL UARTs (1x CONSOLE)</li> <li>• 8 GPIOs 3.3V TTL (1x PWM Capable)</li> <li>• 2x I2C 3.3V</li> <li>• 1x SPI</li> </ul>	Connector: 40-pin DF20 <ul style="list-style-type: none"> <li>• 3x 3.3V TTL UARTs (1x CONSOLE)</li> <li>• 8 GPIOs 3.3V TTL (1x PWM Capable)</li> <li>• 2x I2C 3.3V</li> <li>• 1x SPI</li> </ul>
Storage	1x Micro SD Card Slot	1x Micro SD Card Slot	1x Micro SD Card Slot
Display Output	None (Headless Operation only)	None (Headless Operation only)	None (Headless Operation only)
FAN	1x 4-pin Fan Connector (5V, 1x4 Picoblade)	1x RTC Battery External Connector	1x RTC Battery External Connector
Power Input	+5V DC Input (Positive Locking MiniTek Connector)	+5V DC Input (Positive Locking MiniTek Connector)	+5V DC Input (Positive Locking MiniTek Connector)
Power – RTC Battery	3-Pin RTC Battery Connector (Rev C and onwards)	3-Pin RTC Battery Connector (Rev C and onwards)	3-Pin RTC Battery Connector (Rev C and onwards)
Operating Temperature	-25°C to +85°C (-13°F to +185°F) (module temp)	-25°C to +85°C (-13°F to +185°F) (module temp)	-25°C to +85°C (-13°F to +185°F) (module temp)
Weight	33g (1.16oz) (no module)	33g (1.16oz) (no module)	33g (1.16oz) (no module)
Warranty and Support	1 Year Warranty and Free Support	1 Year Warranty and Free Support	1 Year Warranty and Free Support

Specifications subject to change without notice. ©2021 Connect Tech Inc. All trademarks are property of their respective holder. CTIX-00168(0.00) - 2021-03-22