

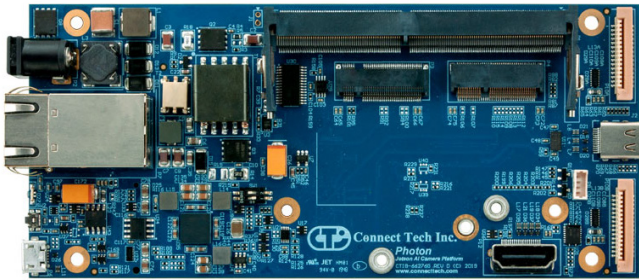


Photon is Jetson AI Camera Platform specifically designed to support smart camera applications.



This Jetson platform provides a PoE PD Gigabit Ethernet uplink for data and power and has various I/O connectors positioned for easy packaging into off the shelf camera housings.

Additional key features include expansion for WiFi/BT, Cellular and NVMe as well as dual MIPI (stereo) inputs.



FEATURES

- ✓ Dimensions: 145mm x 64.5mm
- ✓ 1 x GbE, 1x NVMe (M.2 M-Key), 1 microSD, 4x GPIO, I2C, USB Console/UART, US OTG for programming
- ✓ DC barrel power input also available
- ✓ PoE PD (NGX002) capable, power via separate input or over Ethernet (IEEE 802.3af-2003 and IEEE 802.3 at 2009 compatible)
- ✓ For applications that don't require PoE PD. ask about our lower cost options.

SPECIFICATIONS

Compatibility	NVIDIA Jetson Nano, NVIDIA Jetson Xavier NX ¹	Dimensions	145mm x 64.5mm (5.7" x 2.53")
Front I/O (Camera End) USB	1x USB 3.0 (Connector: USB Type-C)	Front I/O (Camera End) MIPI Camera Inputs	2x 2-lane MIPI CSI-2 <ul style="list-style-type: none"> • 15-pin FPC 1mm Pitch Connector • Same MIPI connector used on Nano Dev Kit
Front I/O (Camera End) Camera MISC Interface	1x I2C (can be used for Lens Control) 4x GPIO (can be used for Additional Camera Control) 1x Power Output (can be used for IR LEDs)	Internal I/O Display Output	1x HDMI (Type-A Vertical)
Internal I/O Fan	1x 4-pin PWM Fan Connector	Rear I/O - Ethernet	1x 1000BASE-T Uplink PoE IEEE 802.3af-2003 (15.4W) PD PoE+ IEEE 802.3at-2009 (25.5W) PD Capable of operating on either network Lower-cost PoE Bypass Option Available
Rear I/O - USB OTG	1x USB 2.0 OTG for Flashing Capability (Micro USB)	Rear I/O - USB UART	1x USB FTDI UART (Micro USB) <ul style="list-style-type: none"> • Console Debug
Rear I/O - Power Input	1x 2mm DC Barrel Jack +12V DC Input	Rear I/O - User Feedback	1x RGB LED I2C controlled
Rear I/O - Button	Dual RESET + FLASH Enable Functionality	Storage	1x SD Card Slot 1x NVMe (M.2 M-KEY)
Wireless Expansion	1x Wi-Fi Module (M.2 2230 E-Key) 1x LTE Module (M.2 2242 B-KEY) w/ SIM Card Slot	Operating Temperature	-25°C to +85°C (-13°F to +185°F)
Warranty and Support	1 Year Warranty and Free Support		

[1] Compatible with only Jetson Nano and Xavier NX production modules.

Integrations with external storage and WiFi/Bluetooth via Intel 8265 are also available, contact sales@connecttech.com for more details



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