

# EC102-XXN

NVIDIA® Jetson Xavier™ NX  
Vision Embedded System



## KEY FEATURES



### Embedded Vision Solutions

Fully support NVIDIA® Jetson Xavier™ NX



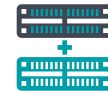
### Palm-Sized System

91.4mm (W) x 70mm (H) x 76.6mm (D)



### Micro-SD Card Slot

Fanless chassis technology



### GPIO Expansion

20 pins with 1 x UART, 2 x I2C, 9 x GPIOs



### 4K Display

1 x HDMI 2.0a/b Type-A supports 4K@60Hz



Front View



Bottom View



Rear View

## SPECIFICATION

<b>System</b>	<b>Computing Platform</b>	NVIDIA® Jetson Xavier™ NX module	
<b>STORAGE</b>	<b>External</b>	1 x micro-SD card slot	
<b>EXPANSION</b>	<b>Interface</b>	20 pins: 1 x 3.3V UART 2 x I2C 9 x GPIOs	
<b>ETHERNET</b>	<b>Interface</b>	1 x GbE RJ-45	
<b>LED</b>	<b>Indicators</b>	1 x Power LED 1 x Recovery LED	RGB tri-color LED
<b>I/O</b>	<b>Ethernet</b>	1 x GbE RJ-45	
	<b>Display</b>	1 x HDMI 2.0a/b Type-A	HDMI: resolution up to 3840 x 2160 @ 60Hz
	<b>USB</b>	1 x USB 2.0 Micro-B for Recovery 2 x USB 3.0 Type-A (USB 3.2 Gen1 x 1) 1 x mPCIe (Host Interface: USB 2.0)	
	<b>Buttons</b>	1 x Power Button 1 x Recovery Button	
	<b>(Internal) MIPI Camera Inputs</b>	2 x 2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector (Compatible on NVIDIA® Jetson Xavier™ NX Developer Kit) 1 x 4 Lane MIPI CSI-2, 36 pin FPC 0.5mm Pitch Connector	
<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds	
<b>POWER</b>	<b>Type</b>	12V/5A (9V~19V is recommended)	
	<b>RTC Battery</b>	Support RTC Battery and Battery Life Monitoring by MCU	
<b>COOLING</b>	<b>Fan</b>	Heat sink with fan	
<b>ENVIRONMENT</b>	<b>Operating Temperature</b>	0°C ~ 60°C	
	<b>Storage Temperature</b>	-40°C ~ 85°C	
	<b>Relative Humidity</b>	Relative Humidity 40 °C @ 95%, Non-Condensing	
<b>MECHANICAL</b>	<b>Dimensions (W x H x D)</b>	91.4mm(W) x 70mm(H) x 76.6mm(D) (3.60" x 2.76" x 3.02")	
	<b>Weight</b>	480g	
	<b>Certification</b>	CE, FCC	

## OPTIONAL ITEMS

Optional Items	Part Number	Description
MIPI Camera	Available upon request	15 pin MIPI connector, raspberry pi camera v2, APPRO.PHO, B-04: IMX179 (8M) MIPI, 1080P (30fps)
	Available upon request	15 pin MIPI connector, raspberry pi camera v2, APPRO.PHO, C-04: IMX290 (2M) MIPI, 1080P (30fps)
	Available upon request	15 pin MIPI connector, raspberry pi camera v2, APPRO.PHO, B-04: C-05: IMX290 (2M) +ISP (YUV), 1080P (30fps)
	Available upon request	36 pin MIPI connector, APPRO.PHO, B-03: IMX334 (4K) MIPI, 4K (30fps)
	Available upon request	36 pin MIPI connector, APPRO.PHO, A-06: IMX334 (4K) V-by-One® HS x1, 4K (30fps)

## Assured Systems

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