

EC102-XNX

NVIDIA® Jetson Xavier™ NX
Vision Embedded System



KEY FEATURES



Embedded Vision Solutions

Fully support NVIDIA® Jetson Xavier™ NX



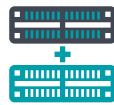
Palm-Sized System

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



SPECIFICATION

NVIDIA GPU SoC MODULE	GPU	NVIDIA® Jetson Xavier™ NX module	
STORAGE	External	1 x micro-SD card slot	
EXPANSION	GPIO	20 pins: 1 x 3.3V UART 2 x I2C 9 x GPIOs	
ETHERNET	Interface	1 x GbE RJ-45	
LED	Indicators	1 x Power LED 1 x Recovery LED	RGB tri-color LED
I/O	Ethernet	1 x GbE RJ-45	
	Display	1 x HDMI 2.0a/b Type-A	HDMI: resolution up to 3840 x 2160 @ 60Hz
	USB	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)	
	Buttons	1 x Power Button 1 x Recovery Button	
	(Internal) MIPI Camera Inputs	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	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
POWER	Type	12V/5A (9V~19V is recommended)	
	RTC Battery	Support RTC Battery and Battery Life Monitoring by MCU	
COOLING	Fan	Heat sink with fan	
ENVIRONMENT	Operating Temperature	0°C ~ 60°C	
	Storage Temperature	-40°C ~ 85°C	
	Relative Humidity	Relative Humidity 40 °C @ 95%, Non-Condensing	
MECHANICAL	Dimensions (W x H x D)	91.4mm(W) x 70mm(H) x 76.6mm(D) (3.60" x 2.76" x 3.02")	
	Weight	480g	
STANDARDS AND CERTIFICATIONS	Certification	CE, FCC	

OPTIONAL ITEMS

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