



PRODUCT GUIDE 2022

QUALITY & STANDARDS











✓ ISO 9001:2015 CERTIFIED

- ✓ CANADIAN CONTROLLED GOODS
- ✓ ITAR CERTIFIED, US JOINT CERTIFICATION
- ✓ MIL-STD-810G, DO-160G FOR SHOCK & VIBRATION
- **✓** INGRESS PROTECTION

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NVIDIA's Largest Global Jetson Hardware Partner

NOTE: Specifications found in this guide are subject to change without notice.

Forge for Orin AGX201



Forge is Connect Tech's first full featured Carrier Board for the NVIDIA® Jetson AGX Orin™. This carrier board for Jetson AGX Orin™ is specifically designed for commercially deployable platforms.

Features:

- Utilizes Native 2x 10G Ethernet on Orin
- Multiple Expansion through M.2 2x M-Key, 1x B-Key and 1x E-Key
- USB3.2, GbE, External PCle Cable
- Wide Input Power Range up to +36V

Rogue for Orin



Rogue for Orin is a full featured Carrier Board for the NVIDIA® Jetson AGX Orin™. Camera Board platforms are available for the Rogue Carrier.

Features:

- Extremely Small Form Factor (Same Size as Jetson Module)
- Compatible with BOTH AGX Xavier and AGX Orin
- 2x NVMe M.2 Key M Slots, 3x USB 3.1, 2x GbE
- Allows for easy upgrade path from Xavier to Orin

Rudi-AGX for Orin ESG620



Rudi-AGX Orin unleashes the full potential of the NVIDIA® Jetson AGX Orin™ module, an Industrial Embedded AI system ideal for a range of Edge Computing applications.

Features:

- Preconfigured with AGX Orin Module
- Utilizes Native 2x 10G Ethernet, as well as USB3.2 and Display Port
- Multiple Expansion through M.2 2x M-Key, 1x B-Key and 1x E-Key
- Active and Passive System Thermals Available

Say hello to Orin.



JETSON AGX Orin™ 32GB/64GB



JETSON Orin™ NX 8GB/16GB

	Orin NX 8GB	Orin NX 16GB	Orin AGX 32GB	Orin AGX 64GB	
AI Performance	ance /0 TOPS (INT8) 100 TOPS (INT8)		200 TOPS (INT8)	275 TOPS (INT8)	
GPU			NVIDIA Ampere Architecture with 1792 Cores and 56 Tensor Cores	NVIDIA Ampere Architecture with 2048 Cores and 56 Tensor Cores	
СРИ	6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	64-Bit CPU 64-Bit CPU 64-Bit CPU		12-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 3MB L2 + 6MB L3	
Memory	mory 8GB 128-bit LPDDR5 16GB 128-bit LPDDR5 102.4GB/s 102.4GB/s		32GB 256-bit LPDDR5 204.8 GB/s	64GB 256-bit LPDDR5 204.8 GB/s	
Storage	Supports External NVMe		64GB eMMC 5.1		
Power	10W / 15W / 20W 10W / 15W / 25W		15W - 40W	15W - 60W	
PCIE	3 x1 + 1 x4 PCle Gen 4		Up to 2 x8, 1 x4, 2 x1 (PCIe Gen4, Root Port & Endpoint)		
CSI Camera	Up to 4 Cameras (8 via virtual channels) 8 lanes MIPI CSI-2 D-PHY 1.2 (20Gbps)		Up to 6 Cameras (16 via virtual channels) 16 Ianes MIPI CSI-2 D-PHY 2.1 (up to 40Gbps) C-PHY 2.0 (up to 164Gbps)		
DL Accelerator	1x NVDLA v2.0 2x NVDLA v2.0		2x NVDLA v2.0		
Vision Accelerator	PVA v2.0		PVA v2.0		
Networking	1x GbE		1x GbE 4x 10GbE		
Mechanical	69.6 mm x 45 mm, 260-pin SO-DIMM connector		100 mm x 87 mm, 699-pin Molex Mirror Mezz Connector		

THE JETSON FAMILY

JETSON NANO 0.5 TFLOPS (FP16)



JETSON TX2 NX 1.3 TFLOPS (FP16)



JETSON XAVIER NX 8GB 6 TFLOPS (FP16) 21 TOPS (INT8)



JETSON XAVIER NX 16GB 6 TFLOPS (FP16) 21 TOPS (INT8)



JETSON TX2i 1.26 TFLOPS (FP16)



JETSON AGX XAVIER 64GB / 32GB

11 TFLOPS (FP16) 32 TOPS (INT8)



JETSON AGX XAVIER INDUSTRIAL 10 TFLOPS (FP16)

30 TOPS (FP 16 30 TOPS (INT8)



Entry — Mainstream — Autonomous Machines —

JETSON MODULE COMPARISON

	Nano	Nano TX2 NX Xavier NX		TX2i	AGX XAVIER	AGX XAVIER INDUSTRIAL	
Al Performance	0.5 TFLOPS	1.33 TFLOPs	6 TFLOPS	1.26 TFLOPs	11 TFLOPS	10 TFLOPS	
GPU	128-core NVIDIA Maxwell™ GPU	256-core NVIDIA Pascal™ GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	256-core NVIDIA Pascal™ GPU	512-core NVIDIA Volta™ G	PU with 64 Tensor Cores	
СРИ	Quad-Core ARM [®] Cortex®-A57 MPCore	Dual-Core NVIDIA Denver 2 64-Bit CPU and Quad-Core ARM® Cortex®-A57 MPCore	6-core NVIDIA Carmel ARM°v8.2 64-bit CPU 6MB L2 + 4MB L3	8.2 64-bit CPU and 8-core NVIDIA Carmel Arm®v8.2 64-b			
Memory	4 GB 64-bit LPDDR4 25.6GB/s	4 GB 128-bit LPDDR4 51.2GB/s	8 GB or 16GB 128-bit LPDDR4x 59.7GB/s	8 GB 128-bit LPDDR4 (ECC Support) 51.2GB/s	64GB or 32 GB 256-bit LPDDR4x 136.5GB/s	32GB 256-bit LPDDR4x 136.5GB/s	
Storage	16 GB eMMC 5.1			32 GB eMMC 5.1	32 GB eMMC 5.1	64GB eMMC 5.1	
Power	5W / 10W	5W / 10W 7.5W / 15W 10V		10W / 20W	10W / 15W / 30W	20W / 40W	
PCIE	1 x4 (PCle Gen2) 1 x1 + 1 x2, total 30GT/s (PCle Gen3, Root Port & Endpoint)			1 x1 + 1 x4 OR 1 x1 + 1 x1 + 1 x2 (PCle Gen2)	1 x8 + 1 x4 + 1 x2 + 2 x1 (PCle Gen4, Root Port & Endpoint)		
CSI Camera	Up to 4 cameras	Up to 5 cameras (12 via virtual channels)	Up to 6 cameras (24 via virtual channels)	Up to 6 cameras (12 via virtual channels)	Up to 6 cameras (24 via virtual channels)	Up to 6 cameras (36 via virtual channels)	
DL Accelerator	_	— — 2x NVDI		_	2x NVDLA Engines		
Vision Accelerator	_	_	_	_	7-Way VLIW Vision Processor	2x 7-Way VLIW Vision Processor	
Networking			10/100/1000 B	ASE-T Ethernet			
Mechanical	69.6 mm	x 45 mm, 60-pin SO-DIMM co	onnector	87 mm x 50 mm, 400-pin connector	100mm x 87mm, 699-pin connector		

EDGE DEVICES

AGX Inference Server UAGXAS



The AGX Inference Server is a high performance AI workstation powered by 12x NVIDIA Jetson AGX Xavier modules. Running NVIDIA's most powerful deeplearning software libraries.

Features:

- 12x 11 TFLOPS, 512-core Volta GPU and 64 Tensor Cores
- 2x 10G SFP+, 2x 1G SFP uplink capability
- Up to 2TB of NVMe storage
- 1U ATX style redundant power supply

Sentry-X SGX001



Sentry-X is ideal for Aerospace, Defense and Heavy Machinery or for any market that can benefit from the Jetson AGX Xavier's incredible performance in a rugged enclosure.

Features:

- 2x GbE, 3x USB 3.1, 2x HDMI, 2x CAN 2.0b, 4x GPI, 4x GPO, 2x RS-232/422/485
- Unique docking stations allows for quick release of Sentry-X compute module
- Tested to MIL-STD-810G, DO-160G for shock & vibration, ingress protection of IP67

Sentry-X 38999 NEW SGX001-05, SGX001-06





Sentry-X now offers a fully sealed, 38999 docking sled option using Meritec Hercules rugged, circular MIP-DTL-38999L Series III shell connectors.

Features:

- 2x GbE, 3x USB 3.1, 2x HDMI, 2x CAN 2.0b, 4x GPI, 4x GPO, 2x RS-232/422/485
- Unique docking stations allows for quick release of Sentry-X compute module
- Tested to MIL-STD-810G, DO-160G for shock & vibration, ingress protection of IP67A

EDGE DEVICES

Rudi-AGX Orin



Rudi-AGX Orin unleashes the full potential of the NVIDIA® Jetson AGX Orin[™] module, Rugged Industrial Embedded Al System.

Features:

- Preconfigured with AGX Orin Module
- Utilizes Native 2x 10G Ethernet on Orin, as well as USB3.2 and Display Port
- Multiple Expansion through M.2 2x M-Key, 1x B-Key and 1x E-Key
- Active and Passive System Thermals Available

Rudi-AGX ESG610



Rudi-AGX unleashes the full potential of the NVIDIA® Jetson AGX Xavier™ module, capable of running AI programs at Maximum Performance (MAX-N).

Features:

- Expandable storage via NVMe and/or SD card
- Connect up to 8x GMSL cameras
- · Quickly integrate WiFi, Bluetooth, LTE, and video capture card
- 2x HDMI outputs and 4x USB for robust and flexible deployment

Rudi-AGX-10G **ESG611**



Rudi-AGX-10G unleashes the full potential of the **NVIDIA Jetson AGX Xavier** module, capable of running Al programs at Maximum Performance (MAX-N).

Features:

- Expandable storage via NVMe and/or SD card
- · Connect via 10 Gigabit Ethernet
- · Quickly integrate WiFi, Bluetooth, LTE, and video capture card
- 2x HDMI outputs and 4x USB for robust and flexible deployment

Rudi-AGX TTP ESG610/ESG611



Rudi-AGX TTP unleashes the full potential of the NVIDIA® Jetson AGX Xavier™ module, capable of running Al programs at Maximum Performance (MAX-N).

Features:

- Cooled via thermal transfer plate
- Expandable storage via NVMe and/or SD card
- · Quickly integrate WiFi, Bluetooth, LTE, and video capture card
- 2x HDMI outputs and 4x USB for robust and flexible deployment

TRUSTED VISION **SOLUTIONS**

As the capabilities of Edge AI Vision grows, finding solutions to easily integrate sensors with embedded hardware empowers rapid product development and field deployment.

- Partnering with leading camera/sensor providers
- Trusted hardware with integrated sensor software
- Minimize overall application development time



BASLER





APPRO.PHO

D3 Engineering FRAMOS













ximea

CARRIER BOARDS

Rogue AGX101/AGX111



Rogue is a full featured Carrier Board for the NVIDIA® Jetson AGX Xavier $^{\text{TM}}$ module. Camera Board platforms are available for the Rogue Carrier.

Features:

- Commercially deployable for NVIDIA letson AGX Xavier
- 6x 2-lane or 4x 4-lane MIPI CSI Camera Inputs
- 2x NVMe M.2 Key M Slots, 3x USB 3.1, 2x GbE
- Wide input power range 9-19V DC
- Dimensions: 92mm x 105mm (3.62" x 4.13")

Rogue-X AGX103/AGX113



The Rogue-X allows for the Jetson AGX Xavier to interface up to two XIMEA xiX embedded vision cameras, each camera utilizing a PCle Gen2 x4 connection.

Features:

- 6x 2-lane or 4x 4-lane MIPI CSI Camera Inputs
- 1x NVMe M.2 Key M Slots, 3x USB 3.1, 2x GbE
- Wide input power range 9-19V DC
- Dimensions: 105mm x 105mm (4.13" x 4.13")

Rogue 10G AGX105



The Rogue 10G is a full featured Carrier Board for the NVIDIA Jetson AGX Xavier module with 2x 10GBASE-T Ethernet connections.

Features:

- 6x 2-lane or 4x 4-lane MIPI CSI Camera Inputs
- 1x NVMe M.2 Key M Slots, 3x USB 3.1, 2x 10 GbE
- 1x OCuLink external PCle port
- Dimensions: 135mm x 105mm (5.31" x 4.13")

Rogue GMSL AGX107



The Rogue GMSL is a full featured Carrier Board for the NVIDIA Jetson AGX Xavier module with 6x GMSL2 camera inputs.

Features:

- 6x GMSL2 Camera Inputs
- NVMe M.2 Key M Slot, 2x USB 3.1, 1x GbE
- Wide input power range +11V to +60V DC
- Dimensions: 125mm x 100mm (4.92" x 3.94")

Rogue-X NVMe Adapter XBG018



Expand your Rogue-X with 2 - 2230, 2242, 2260 or 2280 NVMe PCI x4 modules.

Features:

- PCle Gen3 x4 interface
- 1x NVMe M.2 Key M Slot
- Direct 12V Power From an AGX103 or 2.1 external Positive Barrel jack
- 107.95 x 63.5 mm (4.25" x 2.50")

JETSON AGX XAVIER

2		Rogue Carrier	Rogue-X Carrier	Rogue 10G Carrier	Rogue GMSL Carrier	
	Part Number	AGX101	AGX103	AGX105	AGX107	
	Dimensions	92mm x 105mm (3.62" x 4.13")	105mm x 105mm (4.13" x 4.13")	135mm x 105mm (5.31" x 4.13")	125mm x 100mm (4.92" x 3.94")	
	Weight	103g (3.63oz)			TBD	
ועעען	Camera Inputs	6 x2 Lane MIPI CSI-2 OR 4 x4 Lane MIPI CSI-2	2x PCIe Gen2 x4 Connections (for ximea xiX cameras) 6x 2 Lane MIPI CSI-2 or 4x 4 Lane MIPI CSI-2	6 x2 Lane MIPI CSI-2 OR 4 x4 Lane MIPI CSI-2	6x GMSL2 Input (w/ PoC)	
	User Expansion	1x M.2 Key E Slot with PCle & USB (WiFi + BT modules)	M.2 Key E Slot with PCle & USB (WiFi + BT modules) 2x PCle Gen2 x4 1x M.2 Key E Slot with PCle & USB (WiFi + BT modules)		M.2 B-Key - for LTE (3042 size) - USB 2.0 + USB 3.0 M.2 E-Key - for WiFi/BT (2230 size) - USB 2.0 + PCle x1	
	USB	3x USB 1x USB C		3x USB 3.1	2x USB 3.1 Type A 1x USB 2.0 Micro-B Port	
	Networking	2x Gigabit E	thernet	2x 10 Gigabit Ethernet from Intel® X550	1x Gigabit Ethernet	
	Display Output	2x HDMI 2.0			1x HDMI 2.0	
	Storage	1x Micro SD/UFS Card Slot 2x NVMe M.2 Key M Slots	1x Micro SD/UFS Card S	lot 1x NVMe M.2 Key M Slots	1x Micro SD/UFS Card Slot 1x NVMe M.2 Key M Slots 1x 32kb EEPROM on I2C	
	UART	1x 4-pin Fan Connector	(5V, 1x4 Picoblade)	2x @ 3.3V levels UART1 and UART2 1x USB based Debug UART3 (microUSB AB connector)	2x 3.3V Logic Level UARTs 1x RS-232 Line Level UART	
	I2C/SPI	1x I2C	Channel @ 3.3V IO 1x SPI Channel @ 3.	3V IO	N/A	
	CAN	2x CAN 2.0b Port				
	GPIO	4 bits of 3.3V (level shifted GPIO)		Dedicated 2 GPO, 2 GPI (3.3V)	N/A	
	Input Power	Wide Input 9V	to 19V DC	19V DC Regulated +12V Only Input (4-pin Mini-fit Jr. Connector)		
	Operating Temperature	-40°C to +85°C (-40°F to +185°F) AGX105: Intel X550 has ambient temp of 0°C to +50°C				

CAMERA BOARDS

Basler MIPI Camera Board

NEW

JCB001



This expansion board allows up to 4 Basler Dart cameras to be connected to the Rogue or Rogue-X carriers.

Features:

- 4x Basler BCON MIPI Connectors
- Onboard power regulation
- Compact size
- 2x GPI and 2x GPO per camera

GMSL Camera Platform

JCB002



This expansion board supports up to 8x GMSL1 or GMSL2 cameras to be connected to the Rogue or Rogue-X carriers.

Features:

- GMSL1 or GMSL2 protocols
- Internal or External Camera power
- Allows longer length cabling as well as a direct path to the Jetson AGX Xavier ISPs
- Power over Coax; 4x mini coax connector
- Input voltage protection and Software power cycle

Allied Vision MIPI Board

NEW

JCB005



This Camera Board allows for direct connectivity to up to six MIPI sensors without the need of additional hardware components.

Features:

- Simple integration of Allied Vision MIPI CSI-2 sensors to the Jetson AGX Xavier platform
- Connect up to 6x 2-lane or 4x 4-lane MIPI Cameras
- Seamless integration to the Rogue and Rogue-X Carrier Boards

FPD-Link III Board



This expansion board allows for the connection of FPD-Link III Deserializers to be connected to the Rogue or Rogue-X carriers

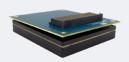
Features:

- 8x FPD-Link III camera inputs, 2x per deserializer
- 16-lane MIPI output; single
 4-lane MIPI CSI-2 per deserializer
- Power over Coax
- Internal or External Camera power

Also Jetson AGX Xavier™ Industrial Compatible!

ACCESSORIES

Connector Saver ADG110



The NVIDIA® Jetson AGX
Xavier™ Connector Saver
attaches directly to the AGX
Xavier production module
to save your connector from
wear.

Features:

- Minimizes contact damage
- Protects connectors from mating and unmating wear
- Dimensions: 92mm x 105mm (3.62" x 4.13")
- Compatibility: NVIDIA
 Jetson AGX Xavier, Connect

 Tech Rogue Carrier

Active Heat Sink XHG306



The NVIDIA® Jetson AGX
Xavier™ Connector Saver
attaches directly to the AGX
Xavier production module
to save your connector from
wear.

Features:

- Minimizes contact damage
- Protects connectors from mating and unmating wear
- Dimensions: 92mm x 105mm (3.62" x 4.13")
- Compatibility: NVIDIA
 Jetson AGX Xavier, Connect

 Tech Roque Carrier

Passive Heat Sink XHG305



The NVIDIA® Jetson AGX
Xavier™ Connector Saver
attaches directly to the AGX
Xavier production module
to save your connector from
wear.

Features:

- Minimizes contact damage
- Protects connectors from mating and unmating wear
- Dimensions: 92mm x 105mm (3.62" x 4.13")
- Compatibility: NVIDIA Jetson AGX Xavier, Connect Tech Rogue Carrier

Liquid Cooling Block XHG307



The NVIDIA® Jetson AGX Xavier™ Connector Saver attaches directly to the AGX Xavier production module to save your connector from wear.

Features:

- Minimizes contact damage
- Protects connectors from mating and unmating wear
- Dimensions: 92mm x 105mm (3.62" x 4.13")
- Compatibility: NVIDIA
 Jetson AGX Xavier, Connect

 Tech Rogue Carrier

JETSON AGX XAVIER

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	Basler MIPI Camera Board	GMSL Camera Platform	Allied Vision MIPI Board	FPD-Link III Camera Board	
Part Number	JCB001	JCB002	JCB005	JCB006	
Size	75mm x 40.2mm (2.95" x 1.58")	75mm x 57mm (2.95" x 2.24")	75mm x 40.2mm (2.95" x 1.58")	75mm x 57mm (2.95" x 2.24")	
Weight	25g (0.88oz)	50g (1.76oz)	19g (0.67g)	TBD	
Connector	1x High Density Connector Camera Board will mate to the Camera Expansion Header on the Rogue Rogue-X Carrier Board				
Camera Inputs	4x Basler BCON MIPI	8x Total (GMSL2/GMSL1)	Up to 6x MIPI CSI-2 (4x 4-lane or 6x 2-lane)	8x Total	
Allied Vision Sensor Support	١	I/A	1500 C and 1800 C Series Alvium MIPI CSI sensors	N/A	
Deserializer	N/A	Maxim MAX9296A	N/A	Texas Instruments DS90UB954	
MIPI Output	N/A	A single 4-lane MIPI CSI-2 v1.3 output from each Deserializer (16-lanes total)	N/A	A single 4-lane MIPI CSI-2 v1.3 output from each Deserializer (16-lanes total)	
Camera Input Connectors	4x 4-lane MIPI CSI-2 Connections to interface to Basler MIPI Cameras	2x MATE-AX Quad Coax Connectors Breakout cables to FAKRA available	6x FH55-22S-0.5SH Hirose Connectors	2x MATE-AX Quad Coax Connectors Breakout cables to FAKRA available	
PoC (Power-over-Coax)	N/A	All 8 cameras will be sourced Power-Over- COAX from JCB002	N/A	All 8 cameras will be sourced Power-Over- COAX from JCB006	
Power	Can be directly powered from Camera Expansion Header or External +12V Input				
Operating Temperature		-40°C to +85°C (-40°F to +185°F)			

Visit Connect Tech on the Road

Connect Tech is regularly on the road at industry events around the globe.

Visit our website at www.connecttech.com

to find out where you can see us next!



EDGE DEVICES/CARRIER BOARDS

Rudi-NX **ESG602**



Rudi-NX is the ultimate Edge Al computing device for stateof-the-art, compute-intensive applications. Rudi-NX is powered by NVIDIA® Jetson Xavier™ NX.

Features:

- Extremely small footprint: 135mm x 50mm x 105mm (5.3" x 2" x 4.1")
- I/O: 4x GMSL, USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-485, I2C, GPIO, SPI, PWM
- 1x NVMe (PCle x4, 2280), 1x SD card slot
- -20°C to +80°C (-4°F to +176°F) Operating Temperature Range

Rudi-NX FPD-Link III

ESG603







Rudi-NX is the ultimate Edge AI computing device for stateof-the-art, compute-intensive applications. Rudi-NX is powered by NVIDIA® Jetson Xavier™ NX.

Features:

- Extremely small footprint: 135mm x 50mm x 109mm (5.3" x 2" x 4.29")
- I/O: 4x FPD-Link III, USB 3.0. USB 2.0, CAN 2.0b, USB OTG, RS-485, I2C, GPIO, SPI, PWM
- 1x NVMe (PCle x4, 2280), 1x SD card slot
- +9V to +36V wide input voltage range

Boson for FRAMOS NGX007



Boson for FRAMOS is an Al vision powerhouse, integrating up to four MIPI cameras within an extremely small footprint.

Features:

- Integrate up to 4x 2-lane or 3x 4-lane MIPI FRAMOS Sensor Modules
- Dual GbE and Dual USB
- NVMe and microSD card for additional storage
- WiFi and Bluetooth expansion options
- +9V to +36V wide input voltage range

Ouark **NGX004**



Quark Carrier is an affordable, ultra small feature rich carrier. Just slightly larger than the Jetson™ module, it's ideal for vision applications, inference, and unmanned payloads.

Features:

- •Tiny footprint: 82.6mm x 58.8mm (3.25" x 2.31")
- 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

Photon Al Camera Platform NGX002, NGX003



The Photon carrier board is a Jetson Al Camera Platform specifically designed to support smart camera applications.

Features:

- PoE PD (NGX002) capable, power via separate input or over Fthernet
- 1 x GbE, 1x NVMe (M.2 M-Key), 1 microSD, 4x GPIO, I2C, USB Console/UART, USB OTG for programming
- DC barrel power input also available

Note: While Boson, Quark, and Photon are compatible with NVIDIA Jetson Nano, TX2 NX, and Xavier NX SoMs, some I/O availability will change across modules.

JETSON XAVIER NX / JETSON TX2 NX / JETSON NANO

ACCESSORIES

ACTIVE HEAT SINKS

Jetson Xavier NX - XHG312, XHG314





Jetson Nano - XHG309



Jetson TX2 NX - XHG318



PASSIVE HEAT SINKS

Jetson Xavier NX - XHG311



Jetson Nano - XHG308



Jetson TX2 NX - XHG317



THERMAL PLATES

Jetson Xavier NX - XHG313



Jetson Nano - XHG310



Jetson TX2 NX - XHG316



Jetson Accessories

Connect Tech carrier boards and system level solutions offer a wide variety of expansion options and accessories.

Accessories include:

Cables, antennas, power supplies, camera adapters, camera expansions, enclosures, thermals, WiFi modules, frame grabbers, storage, bluetooth modules, and more.



JETSON XAVIER NX / JETSON TX2 NX / JETSON NANO

Name Quark Carrier		Photon Carrier	Boson Carrier for FRAMOS		
Part Number	NGX004	NGX002	NGX007		
Dimensions	82.6mm x 58.8mm (3.25" x 2.31")	145mm x 64.5mm (5.7" x 2.53")	90mm x 75mm (3.54" x 2.95")		
Ethernet	2x 1000BASE-T Ports 1x GBE from Jetson GBE Port 1x GBE from PCle x1 i210 PHY	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 PoE Bypass Option Available	2x 1000BASE-T Ethernet Ports 1 Port sourced directly from NX 1 Port sourced from i210		
USB + OTG	1x USB 3.1	1x USB 3.1, 1x USB 2.0 OTG 1x USB FTDI UART	1x USB 3.0 Gen 2 w/ OTG capability (Type C) 1x USB 2.0 (Type A)		
MIPI Cameras	2x 2-lane MIPI CSI-2	2x 2-lane MIPI CSI-2	Up to: • 4x 2-lane MIPI FRAMOS Sensor Modules, or • 3x 4-lane FRAMOS Sensor Modules		
Misc Interfaces	3x UARTs, 8x GPIO, 2x I2C 3.3V, 1x CAN 2.0b, 1x SPI	1x I2C, 4x GPIO, 1x Power Output	3x 3.3V TTL UARTs (1x CONSOLE), 8 GPIOs 3.3V TTL (2x PWM Capable), 2x I2C 3.3V, 1x CAN 2.0b, 2x SPI, 2x 3.3V, 2x 5V, 8x GND		
Storage	Storage 1x Micro SD Card Slot 1x SD Card Slot 1x NVMe (M.2 M-KEY)		1x M.2 M-Key (2280) NVMe PCle x4 1x Micro SD Card		
Display Output	None (Headless Operation only)	1x HDMI	1x HDMI 2.0		
Wireless Expansion	N/A	1x WiFi Module 1x LTE Module	1x 2230 E-Key Expansion for WiFi/Bluetooth 1x PCle x1 + USB 2.0		
Power Input	+5V DC Input (Positive Locking MiniTek Connector)	1x 2mm DC Barrel Jack +12V DC +/- 5%	+9V to +36V Input Voltage Range Auto-ON operation by default		
Operating Temperature	-25°C to +85°C (-13°F to +185°F)	-25°C to +85°C (-13°F to +185°F)	-40°C to +85°C (-40°F to +185°F)		
Weight	Weight 33g (1.16oz) 76g (2.68oz)		80g (2.82oz)		

Specifications in chart are based on Jetson Xavier NX.

While Boson, Quark, and Photon are compatible with NVIDIA Jetson Nano, TX2 NX, and Xavier NX SoMs, some I/O availability will change across modules.

EDGE DEVICES

CVS001



Cogswell Vision System is preintegrated with the NVIDIA® Jetson™ TX2. It comes in a black anodized metal enclosure and is both fanless and cable free.

Features:

- Specifically designed for use with GigE Vision Cameras
- 5 x Gigabit Ethernet Channels 4 x PoE, 2 x PoE+ PSE Gigabit Ports
- Only a single +12V input required;
 No external 48V PoE power required
- 1 x USB 3.0, 1x USB 2.0, 1x USB OTG, 2x RS-232, 1x miniPCle, 1x mSATA

Rosie Embedded System ESG501



Rosie is a small form factor, rugged embedded system pre-integrated with the NVIDIA Jetson TX2 or TX2i. It is housed in a rugged compact enclosure.

Features:

- 163.6mm x 108.0mm x 96.3mm (6.438" x 4.250" x 3.790")
- 1x HDMI, 2x GbE, 2x USB 2.0, IEEE 802.11 ac, 1x RS-232
- +9V to +36V Power Input
- Designed to MIL-STD 810g and DO-160G for shock and vibration. Designed to IP68 ingress protection rating

Rudi Embedded System ESG503-ESG506



Rudi holds a lot of power in a small package and is pre-integrated with NVIDIA Jetson TX2, providing 256 CUDA® Cores.

Features:

- 1 TFLOP/s, 256 CUDA cores with NVIDIA Pascal GPU Architecture
- Extremely small footprint 135mm x 50mm x 105mm
- USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-232, I2C, GPIO, WiFi, Bluetooth
- 1 x miniPCle Slot with PCle & USB Connectivity

TX2 Inference Server UTX2AS



The TX2 Inference Server is a low wattage, high performance deep learning inference server powered by the NVIDIA Jetson.

Features:

- 24x 1 TFLOP/s, 6,144 GPU CUDA cores with NVIDIA Pascal architecture
- 2x 10G SFP+, 2x 1G SFP Uplink Capability
- 3x 2.5" SATA drives
- 1U ATX style redundant power supply

CARRIER BOARDS

Orbitty Carrier ASG003



Orbitty Carrier is designed to match the NVIDIA® Jetson™ TX2/ TX2i module form factor. Orbitty is our best selling solution due to its combination of features, price point, and size.

Features:

- Ideal for robotics and unmanned applications or any small form factor rugged environment
- Extremely Small Size: 87mm x 50mm (3.42" x 1.96")
- 1x GbE, USB 3.0, USB 2.0, 1x HDMI, 1x MicroSD, 2x 3.3V UART, I2C, 4x GPIO
- +9V to +14V DC Nominal (+19V Peak)

Elroy Carrier ASG002



Elroy Carrier is designed to match the NVIDIA Jetson TX2 or TX2i form factor. With locking pinheader connectors and industrial temperature range components, the Elroy is ideal for use in drones.

Features:

- Extremely Small Size: 87mm x 50mm (3.425" x 1.968")
- Head-to-Head Dual Mini-PCle
- Dual x2 MIPI CSI-2 Video Inputs
- Locking pin-header connectors
- Operating Temperature -40°C to +85°C (-40°F to +185°F)

Astro Carrier ASG001, ASG012



Astro is specifically designed to work with the NVIDIA Jetson TX2 or TX2i. The Astro Carrier provides access to features found on the Jetson TX2/TX2i module.

Features:

- 2 Gigabit (10/100/1000) Ports
- USB and HDMI Ports
- Use with COTS or custom breakout boards
- Extended Temperature Range -40°C to +85°C (Astro Carrier)
- Video Inputs: MIPI, GMSL (ASG012)

Sprocket Carrier ASG008



Sprocket Carrier is designed to match the NVIDIA Jetson TX2/TX2i module form factor. The Sprocket is our lowest price entry level product.

Features:

- Slimmest design possible in Z-axis – All components fit "under" TX2/TX2i module
- Extremely Small Size: 87mm x 50mm (3.42" x 1.96")
- 1x USB OTG, 1 x4 lane MIPI CSI-2, 2x 3.3V UART, I2C, 4x GPIO
- +12V to +16V DC Input Range

CARRIER BOARDS

Cogswell Carrier ASG007



Cogswell Carrier for NVIDIA® Jetson™ TX2 and TX2i is ideal for use in Gigabit Ethernet Vision applications. Provides Gigabit Ethernet channels with built-in Power over Ethernet (PoE) sourcing capabilities, ideal for use with GigE Vision cameras.

Features:

- Specifically designed for use with GigE Vision Cameras
- 5 x Gigabit Ethernet Channels 4 x PoE, 2 x PoE+ PSE Gigabit Ports
- Only a single +12V input required; No external 48V PoE power required
- 1 x USB 3.0, 1x USB 2.0, 1x USB OTG, 2x RS-232, 1x miniPCle, 1x mSATA

Spacely Carrier ASG006, ASG009



Spacely Carrier for NVIDIA Jetson TX2/TX2i is an ideal product for unmanned vehicle applications, or any application where situational awareness is critical. Spacely enables users to simultaneously connect up to 6 MIPI CSI-2 cameras.

Features:

- Built-in expansion for a GPS/GNSS module
- Connect up to 6 MIPI CSI-2 Camera Inputs
- Tailored IO for easy connection to Pixhawk Autopilot
- 2x GbE, 1x uHDMI, 2x USB 3.0, 2x USB 2.0, 1x USB CLIENT, 1x miniPCle Slot, mSATA Slot

Quasar Carrier ASG016



Quasar Carrier is an update to the Orbitty Carrier, designed to match the NVIDIA Jetson TX2/TX2 4GB/TX2i module form factor. While very similar to the popular Orbitty Carrier, the Quasar brings in a few new features while maintaining the small 87mm x 50mm footprint.

Features:

- Additions*: 2x USB 3.0, 1x 4-lane MIPI (I-PEX), 1x CAN, SATA 7-pin connector for storage
- Updated 1x HDMI 2.0 connector
- +9V +14V DC Nominal (+19V Peak)
- * In comparison to ASG003, Orbitty Carrier

NVIDIA TX2 Dev. Kit Carrier ASG018



The NVIDIA TX2 Dev. Kit Carrier features 12 lanes MIPI CSI-2, D-PHY 1.2, HDMI 2.0, GPIO, I2C, I2S, SPI, UART. This Carrier contains the same footprint and IO placements as TX2 Dev Kit, meant to be a drop-in replacement.

Features:

- NVIDIA TX2 Dev Kit Replacement
- Additional USB 3.0 Ports (5x Ports Total)
- +9V +14V DC Nominal (+19V Peak)

JETSON TX2/TX2i

Name	Orbitty	Elroy	Astro	Sprocket	Cogswell	Spacely	Quasar
Part Number	ASG003	ASG002	ASG001 w/ XBG206	ASG008	ASG007	ASG006	ASG016
Dimensions	87mm x 50mm (3.425" x 1.968")	87mm x 50mm (3.425" x 1.968")	87mm x 57mm (3.43" x 2.24")	87mm x 50mm (3.425" x 1.968")	178mm x 147.5mm (7.008" x 5.81")	125mm x 95mm (4.92" x 3.74")	87mm x 50mm (3.425 x 1.968)
Mini-PCle/ mSATA	N/A	1x Mini-PCle/mSATA half or full size (use of full size removes secondary Mini PCle slot)	1x half size card or 1x full size card PCIe and USB signalling (Mini PCIe)	N/A	1 x miniPCle Slot with PCle & USB, x mSATA Full Size Slot	1 x miniPCle Slot with PCle, USB + SIM; 1x mSATA Full Size Slot	N/A
SATA	N/A	1x mSATA half or full size (use of full size removes secondary Mini PCIe slot)	1x SATA Link	N/A	N/A	N/A	1x SATA (7-pin Data Connector)
Display	1x HDMI	1x HDMI	1x HDMI	N/A	1x HDMI	1x HDMI	1x HDMI
Serial	2x 3.3V UART through discreet connector	2x RS-232/RS-485	2x RS-232/RS-485	2 x 3.3V from TX2 UART0 and UART1	2x RS-232	2x 3.3V from TX2 UART0 and UART1	2x 3.3V UART through discreet connector
CAN	N/A	N/A	N/A	N/A	1x CAN 2.0b Port	1x CAD 2.0b Port	N/A
USB	1x USB 3.0, 1x USB 2.0 OTG	1x USB 3.0 (Integrated USB 2.0), 1x USB 2.0	1x USB 3.0, 2x USB 2.0	1 x USB OTG	1 x USB 3.0, 1 x USB OTG (Micro- AB), 1 x USB 2.0, 1 x USB, 2.0 to miniPCle Slot	2x USB 3.0, 1x USB OTG, 2x USB 2.0, 1x USB 2.0 to miniPCIe Slot	2x USB 3.0
Ethernet	1x GbE	1x GbE	2x GbE	N/A	5 x GbE (4x PoE, 2x PoE+)	1x GbE	1x GbE
Audio	HDMI Integrated Audio	HDMI Integrated Audio	HDMI Integrated Audio	N/A	N/A	HDMI Integrated Audio	HDMI Integrated Audio
SD Card	1x microSD Card Slot	1x microSD Card Slot	1x microSD Card Slot	N/A	1x microSD Card Slot	1x microSD Card Slot	1x microSD Card Slot
Video Inputs	N/A	2x 2-Lane (2x) MIPI CSI 2.0	1 x2 Lane MIPI CSI-2 2 x4 Lane MIPI CSI-2	1 x4 lane MIPI CSI-2	5x capable GbE ports	6 x2 Lane MIPI CSI-2 OR 3 x4 Lane MIPI CSI-2	N/A
Misc	I2C, 4x GPIO	1x I2C Link, 1x SPI Link, 1x System Control, 1x RTC Battery Input, 4x GPIO	1x I2C Link 1x System Control, 1x RTC Battery Input, 4x GPIO	1x USB OTG, I2C, 4x GPIO	1x USB OTG, I2C, CAN 2.0, GPIO	1x USB OTG, I2C, CAN, GPIO, 1x GPS/GNSS (optional), SPI Channel @ 3.3V IO	2x 3.3V UART, 12C, 4x GPIO, 1x CAN
Power Requirements	+9V to +14V DC Nominal (+19V Peak)	DC Input Range +12V DC Nominal Input	+9V to +36V Input	+9V to +16V DC	+12 DC Only	+12V to +22V DC	+9V - +14V DC Nominal (+19V Peak)

NVIDIA QUADRO MXM SOLUTIONS

COM Express Type 6 + GPU Embedded System VXG Series



The COM Express® Type 6 + GPU Embedded System combines Combines High-End NVIDIA GPUs with latest generation x86 processors into a ruggedized small form factor embedded system.

Features:

- GPUs can be targeted for 4 independent display outputs OR for a headless GPU processing system utilizing CUDA® cores
- CPU: Intel Alder Lake (12th Gen) and Tiger Lake (11th Gen) options available
- GPU: NVIDIA RTX 5000, RTX 3000, and T1000 Options Available

COM Express Type 7 + GPU Embedded System V7G Series



The COM Express Type 7 + GPU Embedded System combines 2x 10 GbE with Intel Xeon® D (Server Class) processors with high-end NVIDIA GPUs all into a small form factor embedded system.

Features:

- GPUs can be targeted for 4 independent display outputs OR for a headless GPGPU processing system using CUDA® cores
- CPU: Intel Ice Lake D, Broadwell D and Denverton Server Class Options Available
- GPU: NVIDIA RTX 5000, RTX 3000 and T1000 Options Available

V7G GPU System ESG7 Series



The V7G GPU System combines Intel Xeon D (Server Class) and Intel Atom C3000 x86 processors with high-end NVIDIA Quadro GPUs in a black aluminum enclosure. Half-rack rail mount or Standalone mounting brackets available.

Features:

- Ideal for highend encode/decode video applications or GPGPU CUDA processing, Deep Learning and AI applications.
- CPU: Intel Ice Lake D, Broadwell D and Denverton Server Class Options Available
- GPU: NVIDIA RTX 5000, RTX 3000 and T1000 Options Available



Connect Tech is a leader in high-end compute platforms for the embedded market. Choose from NVIDIA Quadro GPUs paired with Xeon D (Server Class) and Intel Atom C3000 x86 processors in a compact system designed to be highly portable. Available in a fully enclosed system as well as a non-enclosed version for customer designed thermal solutions.



ESG701-01 - 2U Half-rack enclosure system

CHAT WITH THE JETSON EXPERTS

Our technical support team is easily accessible and allows for direct **Engineer to Engineer** communication.

Our **NVIDIA Jetson Support** page has Board Support Packages, User Manuals, Videos, and Articles on Flashing, Storage, and Integration.





Skilled & Expert Technical Staff Ready to Help

support@connecttech.com

CARRIER BOARDS

TYPE 7

Type 7 Carrier Board CCG070



This Type 7 Carrier Board is ideal for high-compute, enterprise level applications needing access to high-end Intel® Xeon® D class processors.

Features:

- Dual 10-Gigabit Ethernet
- Ultra High Speed Storage with M.2 NVMe SSD support
- Extremely Small Form Factor: 125 x 95mm
- Extended Temperature Range -40°C to +85°C

TYPE 10

Type 10 PC Connector Carrier

CCG022



This Type 10 PC Connector Carrier is an extremely small carrier board featuring a combination of PC style connectors and locking pin header connectors.

Features:

- Extremely small size: 84mm x 73.415mm
- Support for the latest generation of low-powered CPUs
- 2 x USB 3.0 Type A, 6x USB 2.0, 2x RS-232, 2x GbE, 1x mSATA

Type 10 Mini Carrier Board CCG010, CCG020



The Type 10 Mini Carrier Board is an extremely small carrier board featuring rugged, locking connectors and offers the ultimate in durability.

Features:

- Extremely small size, 84mm x 55mm
- Now supporting USB 3.0 on CCG020 model
- 2 x mini PCle, mSATA, SATA, 2 x GBE, 6 x USB, LVDS, DisplayPort/HDMI/DVI/VGA, HD Audio, 2x RS-232/422/485

COMING SOON: COM-HPC SOLUTIONS

Building on our broad COM Express offering Connect Tech is working on the release of our first COM-HPC carrier board. This off-the-shelf carrier board will allow users to get to market in the fastest time possible by using readily available hardware and avoiding a lengthy design cycle.

COM+HPC*

New High-Speed (HD) connector

- Support for PCle Gen 4.0, 5.0 (16, 32 Gbps)
- 64 PCle Lanes
- Min. 25 Gb Ethernet per signal pair to support 100 GbE
- Update of other interfaces to latest technology levels (e.g. USB4, SoundWire)

New form factors

- Enlarged real-estate compared to COMe
- Different FFs fitting to embedded and HPC applications
- Supports server class computing architectures
- Server CPUs, HW accelerators (FPGAs, GPUs), high memory capacity, sufficient power & cooling
- Target 25 to 300 W range

COM EXPRESS SMARC

CARRIER BOARDS

TYPE 6

Type 6 104e CCG017, CCG018



This is a compact carrier board which matches the dimensions of a COM Express® Basic module and offers the ultimate durability with rugged, locking pin header connectors.

Features:

- 4x USB 3.0, 2x GbE, 2x RS-232/485, LVDS (2×24), VGA
- PCle/104 Type 1 (CCG018) or PCle/104 Type 2 (CCG017)
- On-Board DisplayPort/HDMI/DVI display switching
- Extended temperature range -40°C to +85°C

Type 6 Rugged Ultra Lite Carrier Board CCG011, CCG012



The Type 6 Rugged Ultra Lite Carrier Board is a compact carrier board that offers the ultimate durability with locking, rugged pin headers. CCG011 supports only USB 2.0 and CCG012 supports USB 3.0.

Features:

- Mini-PCle Expansion, USB 2.0, DisplayPort++
- Small size, 95mm x 125mm
- Supports latest Intel® processor sets
- Extended Temperature Range -40°C to +85°C

Type 6 Ultra Lite Carrier Board CCG008



The Type 6 Ultra Lite Carrier Board is a compact carrier board with standard PC connectors and is ideal for space constrained applications.

Features:

- COM Express® Type 6 Compatibility
- Mini-PCle Expansion
- Supports latest Intel® processor sets
- Extended Temperature Range -40°C to +85°C

SMARC 2.0 Carrier SRG004



Connect Tech's SMARC 2.0 carrier is an extremely small SMARC carrier board ideal for low power IoT applications as users can take advantage of the integrated onboard wireless capabilities.

Features:

- Feature Packed (HDMI, SATA, 2x MIPI CSI-2 Camera Interfaces)
- 2x USB 3.0, 2x USB 2.0, 2x USB 2.0 to miniPCle
- Input Voltage +5V DC only
- Extended Temperature Range -40°C to +85°C

EMBEDDED ETHERNET DEVICES

10 GbE

Xtreme/10G Managed Ethernet Switch/Router

XDG201-01, XDG202-01



Xtreme/10G Managed Ethernet Switch/Router provides high density, high port count Layer 2 switching and Layer 3 routing with 10G uplinks. A total of 36 switchable ports, with 4x 10G, 8x 1GbE (SGMII), and 24x 1GbE (Copper 10/100/1000Mbps) ports in an extremely small form factor 85mm x 85mm (3.35" x 3.35").

XDG202-01 features 1588 PTP support!

Features:

- 36 switchable ports (4x 10G; 8x 1GbE [SGMI]; 24x 1GbE)
- High-density board-to-board connector
- +4V to 14V input range
- 85mm x 85mm (3.35" x 3.35") module
- Extended Temperature Range -40°C to +85°C (-40°F to +185°F)

Software Packages for Managed Ethernet Switches

Connect Tech's software design team builds support for our line of managed ethernet switches using industry-leading firmware.

SMBStaX

IStaX

WebStaX

1 GbE

LINQ/GbE

ESG301, ESG302



LINQ/GbE is a Rugged Managed Ethernet Switch Box. LINQ/GbE series of products offers 12 or 24 Ethernet ports of 10/100/1000 Mbps.

Features:

- 12 and 24 Port 10/100/1000 Mbps Managed Switch Box
- Ruggedized Sealed RJ-45 Acclimate Connector Series
- IP68 Dust and Waterproof Solid Aluminum Enclosure
- Layer 2+ Carrier Ethernet Management
- Low Power Passively Cooled Construction

Xtreme/GbE Managed Carrier Ethernet Switch*



This 8 or 12 port Ethernet Switch is available with either standard RJ45 or rugged latching connectors, conduction cooled heatplates, and PC/104, PCle/104 or standalone options.

Features:

- Conduction cooled Heatplate or Air cooled
- 8 or 12 Port 10/100/1000 Mbps Switch
- Carrier Grade Ethernet Switching
- Available with RJ-45 or Rugged Locking connectors
- PC/104 Compliant: 4.550" x 4.393" (115.57mm x 111.58mm)
- Extended Temperature Range -40°C to +85°C (-40°F to +185°F)

*Part #s: XDG004-XDG010, XDG012, XDG013, XDG016-XDG023

EMBEDDED ETHERNET DEVICES

Xtreme/GbE 24-Port Managed Carrier Ethernet Switch XDG024, XDG025



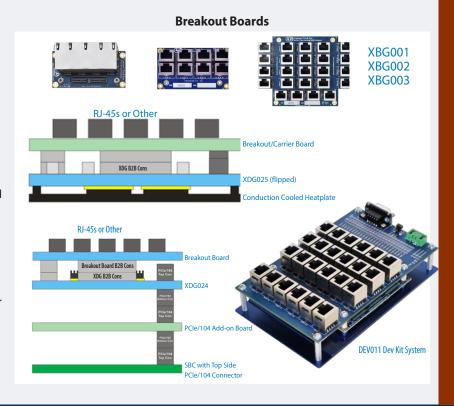


Xtreme/GbE 24-Port Managed Carrier Ethernet Switch provides high density, high port count, Carrier Grade Ethernet switching capabilities in an extremely small embedded form factor. Excellent for any space constrained, mission-critical application needing an embedded high-density/high-port count managed Ethernet Switch.

The XDG025 is designed for standalone applications, with all thermal extraction on one layer and connector/ cabling on the opposite layer, where as the XDG024 is intended to stack directly into a PCle/104 stack.

Features:

- 24 Port Gigabit Ethernet (10/100/1000 Mbps) Switch
- All 24 Port Magnetics Integrated on-board
- High-Density Ruggedized Board-to-Board/Board-to-Cable Port Breakout
- Extremely Small Footprint 90 × 96 mm (3.550 × 3.775 inches)
- Conduction cooled Heatplate or Air cooled Heatsink Options
- Extended Temperature Range -40°C to +85°C



FLASHING AS A SERVICE

Flash 100 units for \$499*

Ready to go to production with your NVIDIA® Jetson™ design?

Have you considered the time involved or equipment and tools required for volume flashing?

Connect Tech offers the following to flash your Jetson:

- Configuration control, testing and integration
- A multi-flashing production environment
- Increased consistency, security and convenience

ADDING MORE STORAGE TO NVIDIA JETSON PROJECTS

Consider the following when starting your Jetson project:

- Developer Kits vs. Production Modules Offer different storage capabilities
- On-board eMMC vs. External SD card vs. NVMe SSD
- Carrier Board or System Solutions Provide additional capabilities, including SD or NVMe storage. Review Connect Tech's lineup within this Product Guide



Read the full article at connecttech.com/news

PARTNER APPROACH

Taking an agnostic approach to computer on module, we understand that most customers select their module vendor before they consider their carrier board options. Therefore, we value our relationships with industry leaders such as:

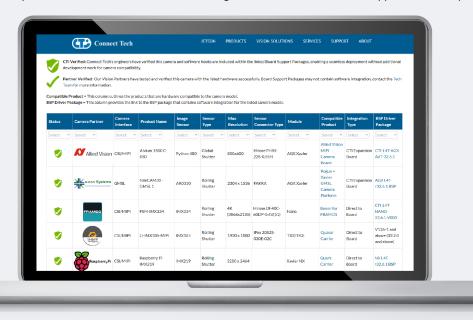




^{*}Plus set-up fees, which include image optimization and direct engineering engagement

Jetson Supported Camera Table!

We have partnered with trusted Jetson Ecosystem Camera Partners to develop solutions that ensure our hardware and software are compatible with various camera models, allowing customers to minimize overall application development time.



View our full list of supported Cameras from our Vision Partners by visiting https://connecttech.com/vision-solutions

TRUSTED VISION SOLUTIONS

As the capabilities of Edge Al Vision grows, finding solutions to easily integrate sensors with embedded hardware empowers rapid product development and field deployment.

- Partnering with leading camera/ sensor providers
- Trusted hardware with integrated sensor software
- Minimize overall application development time





APPRO.PHO

Canon











ximea

ENGINEERING SERVICES

Custom Product Development

IP Pool for Custom Design



MODIFIED OFF-THE-SHELF

CUSTOM DESIGN

Why choose CTI's engineering services?

- 50% of CTI's business is customized designs
- Well defined and polished custom design process
- Over 36 years of IP developing a breadth of hardware solutions
- Unprecedented Revision-A success rate
- Guaranteed functional prototypes in as little as 6-10 weeks



Connect Tech Inc. is NVIDIA's largest global embedded hardware partner offering a wide array of NVIDIA® Jetson™ solutions, as well as embedded products for a variety of industry standards including COM Express, SMARC, and more. With over 36 years of embedded computing experience, Connect Tech's range of proven technology includes complete embedded systems, carrier boards, and thermal solutions, just to name a few. With in-house design and manufacturing services, Connect Tech can provide fast turn-around of custom design services, taking you from development to deployment in record time.

Serving customers around the globe

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