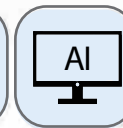


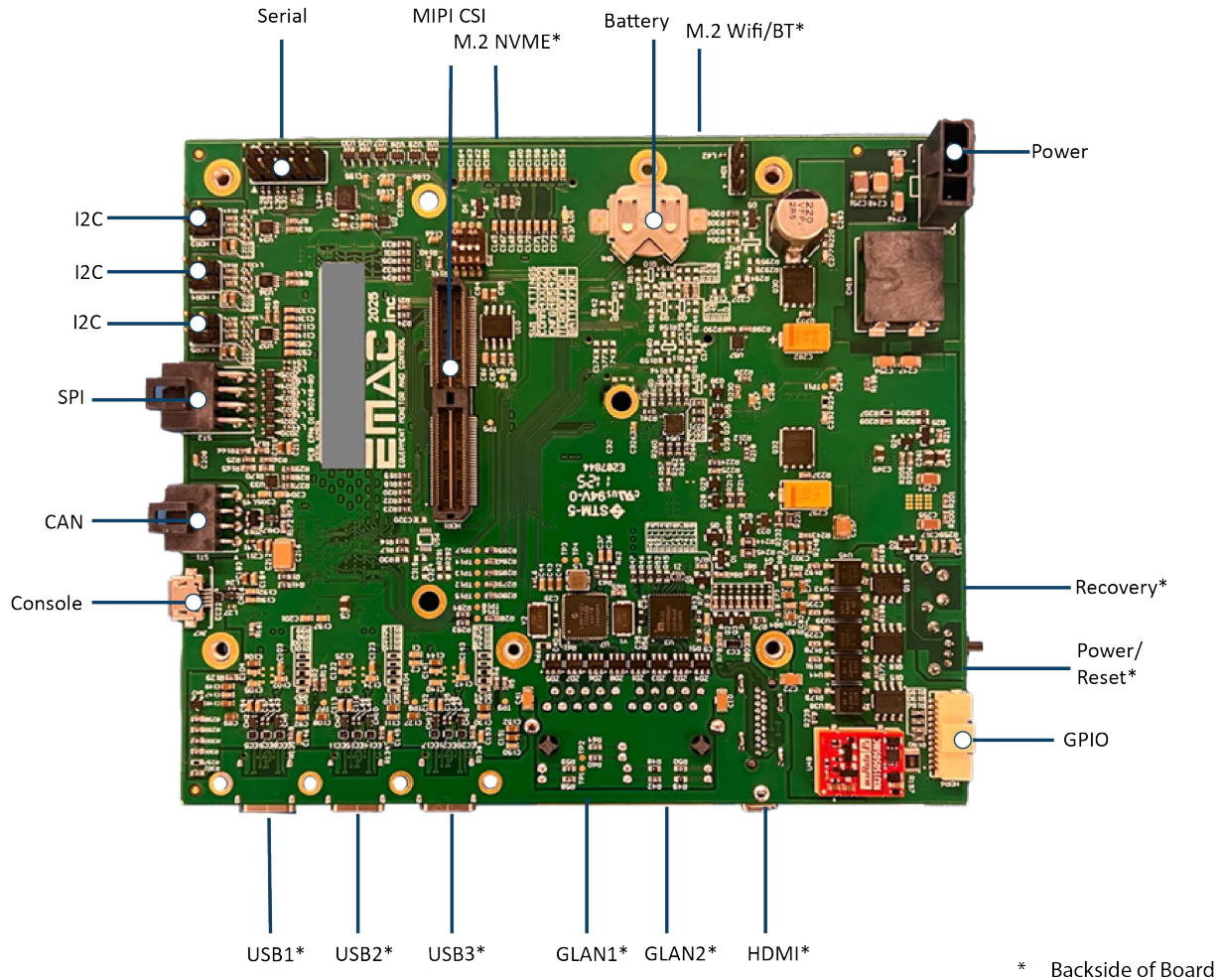
Features

- NVIDIA Jetson AGX Orin Carrier Board
- 1x M.2 2280 M-Key 4-lane NVMe for storage
- 1x M.2 2230 E-Key with PCIe and USB for expansion
- 2x I000BASE-T LAN RJ45 (Gigabit Ethernet)
- 8x 2-LANE MIPI CSI-1 or 4x 4-LANE MIPI CSI-2 Cameras
- 2x USB 3.2 Hosts & 1x USB 3.2 OTG Type-C Ports
- 1x RS232/485 UART, 1x CAN-FD, 8x GPIO, 2x PWM
- 1x HDMI output 4K 2160p@60Hz
- Linux OS with BSP (board support package)



Specifications (Actual I/O Availability is SoM Dependent)

SOM	NVIDIA Jetson AGX Orin 699-Pin SOM or Jetson Xavier SOM (with limited functionality)
Storage	64GB eMMC onboard Nvidia ORIN AGX on SOM & 1x M.2 M-Key 2280 NVMe Card Slot (Gen 4)
I/O	8x Isolated GPIOs (4x 5v@20mA Outputs & 4x 5v 1x Inputs)
	1x Serial ports (RS232/485)
	2x 1000 Base-T Ethernet
	3x I2C ports
	1x CAN FD Port
	2x USB 3.2 Type-C Super speed Host ports
	1x USB 3.2 Type-C Super speed OTG port
	1x USB 2.0 micro (Serial console)
	2x Isolated PWM Ports
	Fan Connector with Tach
Expansion	Power & Status On-Board LEDs
	Push Button Power, Reset & Recovery Button
Camera	Battery for Real-Time Clock
	1x SPI port with 2 slave selects
Expansion	1x M.2 2230 E-Key for Wifi/Bluetooth module (Gen 4)
Camera	8x 2-LANE MIPI CSI-2 or 4x 4-LANE MIPI CSI-2
Video	HDMI Type A Port
Dimensions	4.375" x 5.125" (111.125mm x 130.175mm)
Power Req.	+12Vdc to +24Vdc (Molex mini-fit connector)
	Typical Current Consumption -TBD
Environment	Note - USB Type-C devices Limited to 1.0A each
	-40°C to 85°C (Carrier Board Only with exceptions**), *depends on SOM Installed ** (HDMI Connector -25 to +85°C; M.2 Connectors -40 to +80°C; Battery -30 to +85°C)



* Backside of Board

Ordering Information

PRODUCT #	DESCRIPTION
SOM-950AX-000	NVIDIA ORIN/Xavier AGX CARRIER

Suggested SOM Module Options

PRODUCT #	DESCRIPTION
SOM-13701-400R	NVIDIA Jetson ORIN AGX 32GB RAM SOM (-25C to +85C)
SOM-13701-500R	NVIDIA Jetson ORIN AGX 64GB RAM SOM (-25C to +85C)
SOM-13701-800R	NVIDIA Jetson Industrial ORIN AGX 64GB ECC RAM SOM (-40C to +85C), Made in USA

Peripheral Options

PRODUCT #	DESCRIPTION
PER-DRV-00275-R	M.2 2280 1TB PCIe NVMe Drive (-40 to +85)
PER-DRV-00276-R	M.2 2280 2TB PCIe NVMe Drive (-40 to +85)
PER-COM-0039AR0	M.2 2230 WiFi ac/a/b/g/n & BT4.1
PER-FAN-0038PRO	Advanced Cooling Heat Sink & Fan Jetson AGX ORIN

