Connect Tech

GAUNTLET CARRIER BOARD

FOR NVIDIA® JETSON THOR™

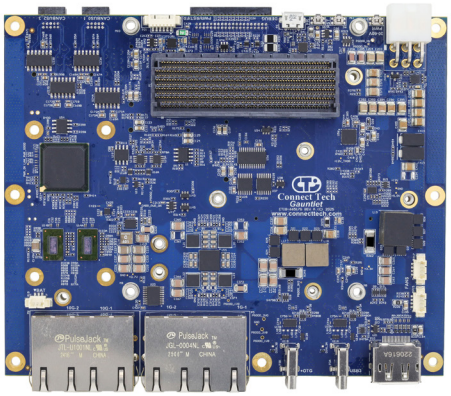
PART NUMBER: AGX301

Purpose-built for the NVIDIA® Jetson Thor™, Connect Tech's Gauntlet delivers industrial-grade performance, ultra-fast networking, and advanced sensor integration—engineered to accelerate the next generation of robotics, autonomy, and AI at the Edge.

With a comprehensive suite of interfaces and expansion options, Gauntlet unlocks the performance of NVIDIA's Blackwell GPU.

Compact. Rugged. Deployable. Gauntlet connects the future of robotics.

NVIDIA Elite Partner



Gauntlet has multi-camera input support for GMSL3, GMSL2, FPD-Link III, SDI, HD-SDI, and HDMI via the CTI camera board ecosystem.

FEATURES

- ✓ Powered by the NVIDIA® Jetson Thor™ T5000
- ✓ Extensive network capabilities: 2x 10GBase-T and 2x 1GBase-T Ethernet
- ✓ USB 3.2 Gen2, CAN 2.0b, RS232/422/482, 3.3V UART, I2C, SPI, GPIO, and PWM interfaces
- ✓ Full 16x lanes MIPI CSI-2 Support
- ✓ Multi-camera input support: GMSL3, GMSL2, FPD-Link III, SDI, HD-SDI, and HDMI via the CTI camera board ecosystem

SPECIFICATIONS

Compatibility	NVIDIA® Jetson Thor™ T5000	**Dimensions**	155mm x 126mm (6.10" x 4.96")
Networking	2x 10GBASE-T (10G Ethernet) 2x 1000BASE-T (1G Ethernet)	**Display Output**	1x Display Port
Camera Inputs	1x 16-Lane MIPI Expansion Connector Interface directly to a range of GMSL3, GMSL2, FPD-Link III, SDI, and MIPI CSI-2 image sensors	**USB**	1x USB 3.2 Ports (Type-C) 1x USB 3.2 Ports (Type-C - OTG Capable)
Storage	2x M.2 Key M 2280 NVMe	**I2C/SPI**	2x I2C Channel @ 3.3V IO 2x SPI Channel @ 3.3V IO
UART	2x RS232/422/485 2x @3.3V levels UART	**GPIO**	4x 3.3V GPI Inputs 6x 3.3V GPO Outputs (2x PWM Capable) 1x 3.3V Power Pin at 1A
CAN	4x CAN 2.0b Non-Isolated Ports	**Input Power**	+36V to +60V DC Wide Input Power (6-Pin Mini-Fit Jr. Connector)
User Expansion	1x M.2 Key E 2230 WiFi/BT (PCIe/USB2) 1x M.2 Key B 3042/3052 (LTE/5G - USB3) with Nano SIM	**Operating Temperature**	Carrier: -40°C to +85°C (-40°F to +185°F)

RoHS

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