LMI TECHNOLOGIES

GoMax® NX

SMART VISION ACCELERATOR

GoMax® NX is a high-performance embedded device that allows you to accelerate any Gocator® sensor or multi-sensor network in heavy-duty inspection applications that require increased data processing power.

This compact, fanless, and easy-to-use vision accelerator enhances data processing power in real-time, minimizing cycle times and augmenting overall inspection performance so you can achieve optimal results in demanding applications such as multi-sensor floor panel inspection, automotive weld inspection, and EV battery foam inspection.

- Easy to set up, power, and run using the Gocator® web browser interface
- Add GPU-accelerated data processing power to Gocator® 3D laser profilers and snapshot sensors
- Simultaneously accelerate Gocator® multi-sensor networks
- Add multiple GoMax® NX units to scale up sensor network acceleration

Powered by NVIDIA® Jetson Xavier™ NX
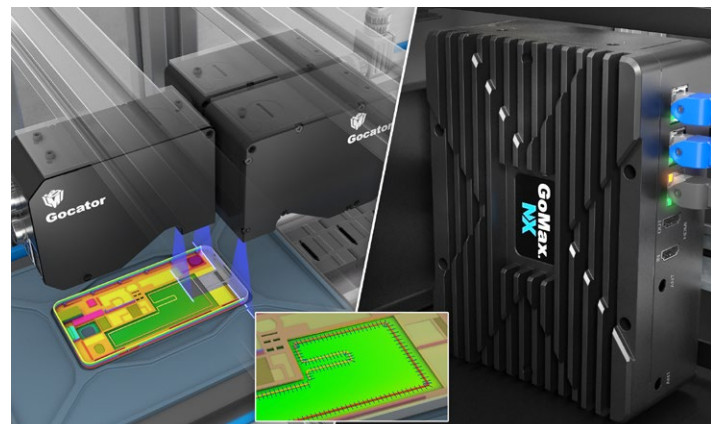
PLUG. PLAY. ACCELERATE.

Simply connect GoMax® NX to any Gocator® sensor and use the intuitive Gocator® web browser-based interface to activate sensor acceleration. GoMax® NX also leverages a distributed design architecture based on peer-to-peer networking that allows you to easily accelerate entire multi-sensor networks.
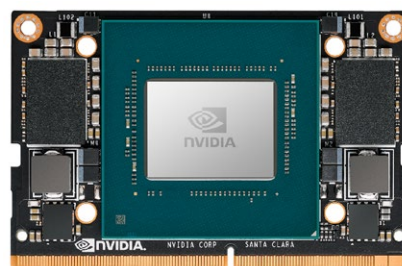
ACCELERATED DATA PROCESSING.

GoMax® NX eliminates the need for an industrial PC by taking over a portion of the sensor's onboard data processing (including data generation, 3D measurement, and PLC/robot communication). GoMax® NX can even handle continuous 3D data feeds over Ethernet and automatically recover from data transmission errors.

POWERED BY NVIDIA® JETSON XAVIER™ NX

GoMax® NX is equipped with the latest and greatest technology from NVIDIA® – The Jetson Xavier™ NX system-on-module (SOM). This embedded supercomputer features the NVIDIA® Volta GPU architecture with 384 CUDA® cores and 48 Tensor cores, delivering up to 14 TOPS at 10W of computational horsepower for accelerated processing of high-resolution data from multiple Gocator® sensors.
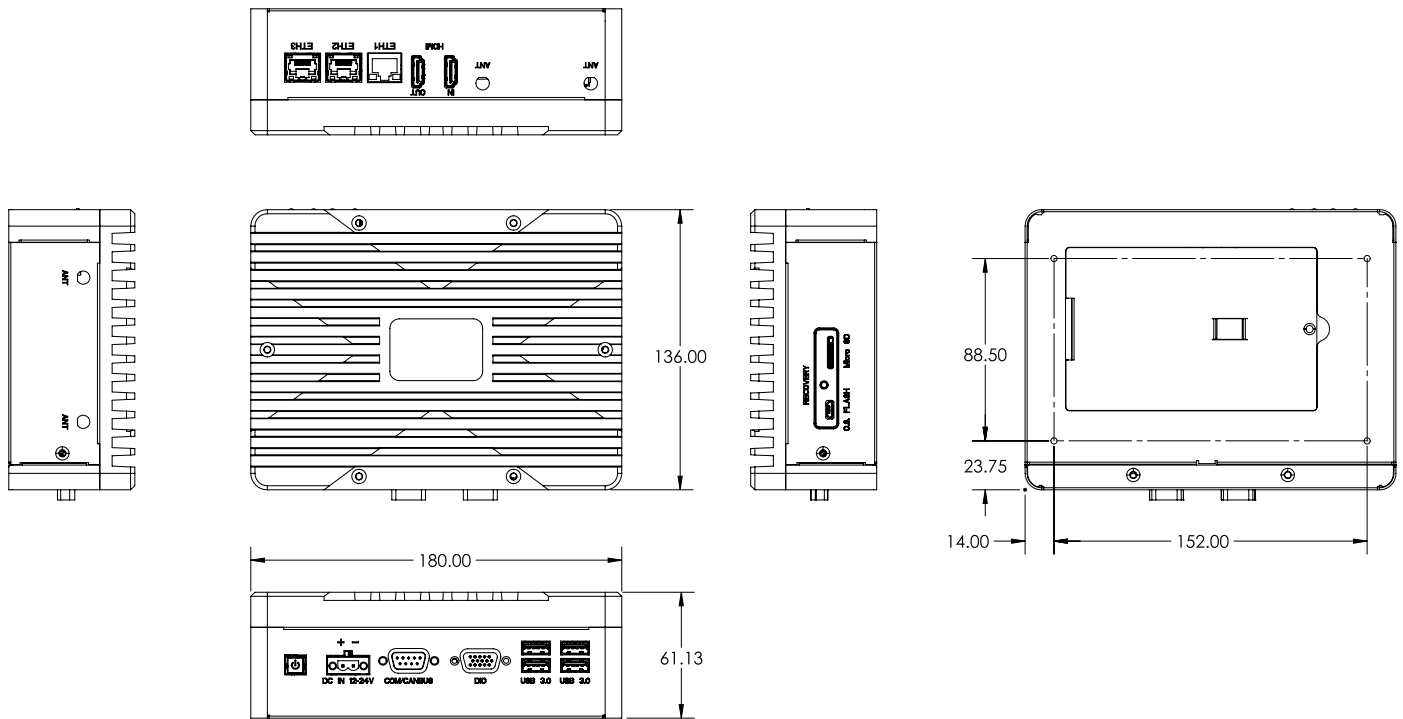
GoMax NX accelerating a triple-sensor inspection of a glue track

GOMAX NX SPECIFICATIONS

NVIDIA Module	Jetson Xavier NX
CPU	6 core NVidia Carmel ARM v8.2
GPU	Volta GPU, 384 CUDA cores, 48 Tensor Cores
Memory	8 GB LPDDR4 onboard
Storage	16 GB eMMC onboard
Supported IO	2x Ethernet
Dimensions (mm)	180 x 136 x 61.1 mm
Power	12 - 24 VDC (phoenix connector), max 15W
Weight (kg)	2.1 kg
Operating Temperature	-15C - 55C
Certifications	CE, FCC class A, RoHS, Reach
Mounting	DIN Rail, Wall mounting