Connect Tech

BOSON FOR FRAMOS
CARRIER BOARD
FOR NVIDIA® JETSON ORIN™ NX & ORIN™ NANO
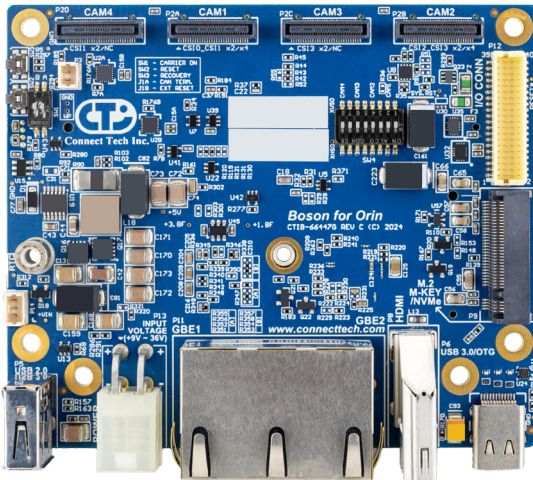
PART NUMBER: NGX020

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

Specifically designed for use within the FRAMOS Sensor Ecosystem, Boson for FRAMOS maximizes sensor inputs and storage solutions for high-end vision applications. Compatible with multiple sensor modules and equipped with PC style connectors, Boson for FRAMOS will accelerate development of applications wishing to utilize multiple cameras on the Jetson platform.

NVIDIA Elite Partner

FRAMOS

Equipped with 4x FRAMOS PixelMate connectors for instant access to the entire FRAMOS Sensor Module Ecosystem.

Since Boson for FRAMOS is compatible with the Orin NX and Orin Nano modules, users can seamlessly transition between modules depending on their AI processing requirements.

FEATURES

✓ Dual Gigabit Ethernet and USB ports

✓ Dimensions: 90mm x 75mm

✓ Storage available through NVMe

✓ Supports multiple configurations for deployment flexibility. Options for 2-lane and 4-lane MIPI camera modules

✓ WiFi and Bluetooth expansion

SPECIFICATIONS

Ethernet	2x 1000BASE-T Ethernet Port • 1x Port sourced directly from NX • 1x Port sourced from i210	**MIPI Camera Inputs**	Up to: • 2x 4-lane MIPI FRAMOS Sensor Modules; or • 4x 2-lane MIPI FRAMOS Sensor Modules
Storage	1x NVMe M.2 M-Key 2280 (4-lane PCIe)	**M.2 E-Key**	1x WiFi/Bluetooth M.2 E-Key 2230 module
USB	1x USB 3.1 Gen 2 w/ OTG capability (Type C) 1x USB 2.0 (Type A)	**Input Power / Misc Power Details**	+9V to +36V Input Voltage Range • Auto-ON operation by default
RTC Battery	1x RTC Battery External Connector	**FAN**	1x FAN w/ PWM Control
Operating Temperature	-40°C to +85°C (-40°F to +185°F)	**Weight**	80g (2.82oz)
Mechanical Details	90mm x 75mm (3.54" x 2.95")	**Display Output**	1x HDMI 2.0
Misc Interfaces	• 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	**Warranty and Support**	1 Year Warranty and Free Support

RoHS

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