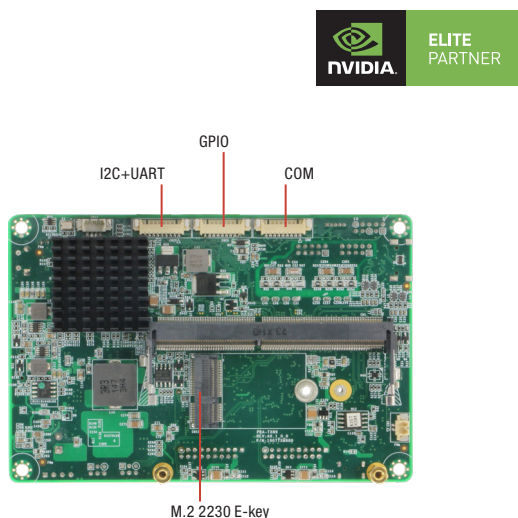


BOXER-8224AI

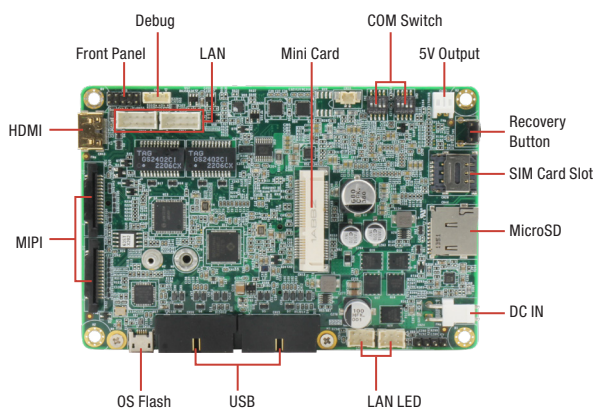
AI@Edge Embedded System with NVIDIA® Jetson Nano™



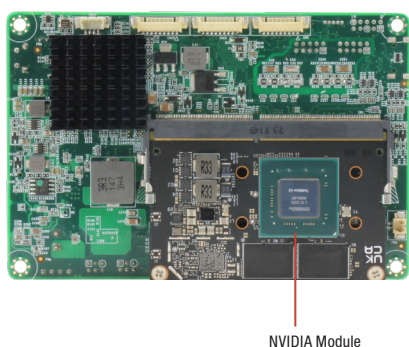
Front View



Rear View



Front View with Module



Features

- NVIDIA® Jetson Nano™
- MIPI Connector x 2
- MicroSD x 1, Mini Card x 1, M.2 2230 E-Key x 1
- GbE LAN x 2, USB 3.2 x 4, GPIO, UART, I2C (via Wafer)
- 12V ~ 24V Wide Power DC Input



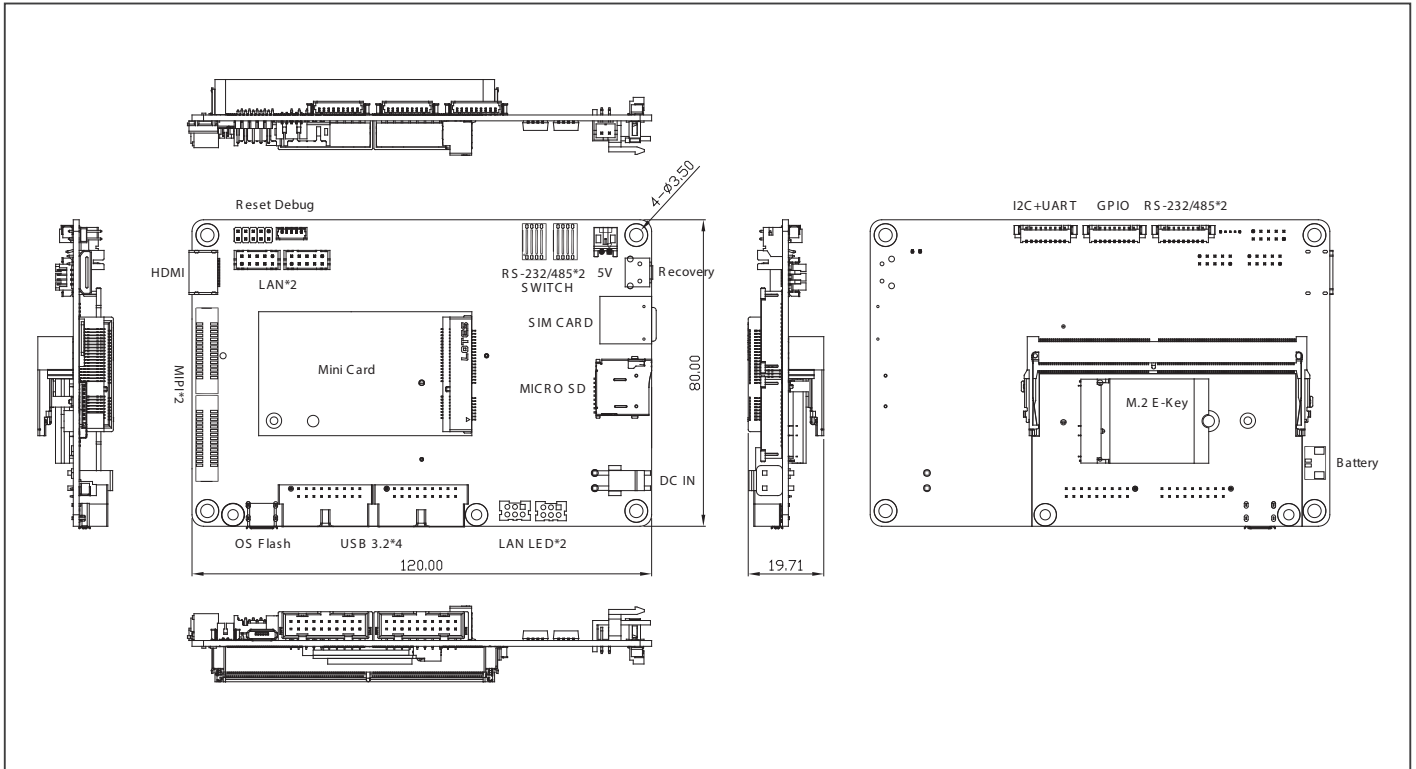
Specifications

System	
AI Accelerator	NVIDIA® Jetson Nano™
CPU	ARM® Cortex® -A57 Quad-Core Processor
System Memory	4GB LPDDR4
Storage Device	16GB eMMC 5.1 x 1 MicroSD slot x 1
Display Interface	Mini HDMI x 1 for HDMI 2.0
Ethernet	Wafer connector x 2 for Giga LAN
I/O	USB 3.2 Gen 1 x 4 (via 2x19-Pin Wafer) Mini HDMI x 1 for HDMI 2.0 RS-232/485 x 2 (via 1x9-Pin Wafer) UART x 1 and I2C x 2 (via 1x9-Pin Wafer) 5V Output (via 1x2-Pin Wafer) GPIO x 6 (via 1x9-Pin Wafer) MIPI Connector x 2 for MIPI Camera LAN LED x 2 (via 2x6-Pin Wafer) Micro USB for Flash OS x 1 Recovery Button x 1 Reset Button x 1 and Power Button x 1 (via Pin Header)
Expansion	M.2 2230 E Key x 1 for Wifi/BT Mini Card x 1 (LTE) Micro SD x 1 SIM card slot x 1
Indicator	—
OS Support	Linux (NVIDIA Jetpack™ 4.6 and above)
Power Supply	
Power Requirement	Wafer connector x 1 for 12V ~ 24V DC
Mechanical	
Mounting	—
Dimensions (W x D x H)	4.72" x 3.1" x 0.76" (120mm x 80mm x 19.7mm), SOM + Carrier Board Only
Gross Weight	0.45lb (0.2Kg)
Net Weight	0.23lb (0.1Kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C with 0.5 m/s airflow)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	3.5Grms / 5~500Hz / X/Y/Z axis, random (by M.2 storage)
Anti-Shock	—
Certification	CE/FCC Class A



Dimension

Unit: mm



Ordering Information

Part Number	AI Solution	MIPI	LAN	USB	COM	UART	I2C	DISPLAY	Expansion Slot	Power	Operation System	Remark
BOXER-8224AI-JP462E-KIT-A1-1010	Jetson Nano™	2	2	4	2	1	2	HDMI x 1	M.2 2230 E Key x 1, Micro SD x 1, Mini card x 1	12V ~ 24V DC	Linux (NVIDIA Jetpack 4.x up)	with Nano SOM, w/o Cable

Packing List

- BOXER-8224AI (with Nano SOM, w/o Cable) x 1

Optional Accessories

- 9651822400
Development Cable Kit
- 1255900603
60W Power Adapter
- 170X000799
Power Cord (US Type)
- 170X000800
Power Cord (European Type)
- 170X000803
Power Cord (Japanese Type)