

MIC-AI Sales Kit

NVIDIA Jetson Products

Industrial AI Platform, ICVG



Elite
Partner

Content



MIC-AI Product Overview

portfolio and roadmap



Jetson Orin Generation Systems

MIC-733-AO, MIC-711 & MIC-713 series introductions



Jetson Xavier Generation Systems

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MIC-AI BSP and SW Support

BSP schedule and training courses

(Click to jump to the slide!)

MIC-AI Product Overview



MIC-AI NVIDIA Jetson Product Portfolio

The diagram illustrates the MIC-AI NVIDIA Jetson Product Portfolio, organized into several categories based on power consumption and performance. The products are shown in various form factors, including modules, single-board computers, and industrial systems.

Category 1: Low Power (5-20W)

- MIC-710AIL Series / MIC-710AI Series**
- MIC-730AI**
- MIC-710AIL-DVA / MIC-710AILX-DVA**
- MIC-730IVA / MIC-710IVX / MIC-710IVA**

Category 2: AGX Xavier

- Xavier NX/Nano**: 5 - 20W, 0.5-21 TOPS
- AGX Xavier**: 10 - 30W, 32 TOPS

Category 3: Orin Nano and Orin NX

- MIC-711-OX / MIC-711-ON**
- MIC-713-OX / MIC-713-ON**
- MIC-715-OX**
- Orin Nano (4GB)**: 5 - 10 W, 20 TOPS
- Orin Nano (8GB)**: 7 - 15 W, 40 TOPS
- Orin NX (8GB)**: 10 - 20W, 70 TOPS
- Orin NX (16GB)**: 10 - 25W, 100 TOPS
- MIC-711D-OX / MIC-711D-ON**
- MIC-713S-OX / MIC-713S-ON**
- MIC-717-OX / MIC-717-ON**

Category 4: AGX Orin

- MIC-733-AO**
- AGX Orin (32GB/64GB)**: 15 - 60W, 200/275 TOPS
- MIC-737-AO**

Category 5: IGX Orin

- MIC-735-I-O**
- IGX Orin**: 248 TOPS
- MIC-735E-I-O / MIC-735M-I-O**

We provide most industrial Jetson systems

ADVANTECH

Advantech Bring NVIDIA Jetson to Industrial Edges

Dev. Kits and Solution Kits for
AI Startups, ISVs



MIC-713S



MIC-710AILX-DVA



MIC-711D

Industrial Fanless Systems for
Equipment Builders, SIs



MIC-715



MIC-733



MIC-711



MIC-713

Industrial-Grade Edge Servers for
Professionals



MIC-735I



MIC-735E



MIC-735M

Validation and Development

Integration and Deployment

Commercial and Industrial Edge Server

MIC-AI General/Lite Industrial Product Roadmap

Available Developing Planning EOL

General Industrial

Lite Industrial

Xavier Gen.

MIC-730A1

- ✓ AGX Xavier
- ✓ 4x USB
- ✓ 2x LAN



MIC-710AIX

- ✓ Xavier NX
- ✓ 2x LAN
- ✓ 1x iDoor



MIC-710A1

- ✓ Nano
- ✓ 2x LAN
- ✓ 1x iDoor



MIC-710AILX

- ✓ Xavier NX
- ✓ 1x LAN
- ✓ 1x miniPCIE



MIC-710AIL

- ✓ NANO
- ✓ 1x LAN
- ✓ 1x miniPCIE



Orin Gen.

MIC-733-AO5A1

- ✓ AGX Orin (32GB)
- ✓ 4x LAN, 6x USB
- ✓ 1x iDoor
- ✓ iModule support



MIC-733-AO6A1

- ✓ AGX Orin (64GB)
- ✓ 4x LAN, 6x USB
- ✓ 1x iDoor
- ✓ iModule support



MIC-713-OX4A1

MIC-713-OX3A1

- ✓ Orin NX (16GB/8GB)
- ✓ 2x LAN, 6x USB
- ✓ 1x iDoor
- ✓ 1x 8bit DIDO



MIC-713-ON3A1

MIC-713-ON2A1

- ✓ Orin Nano (8GB/4GB)
- ✓ 2x LAN, 6x USB
- ✓ 1x iDoor
- ✓ 1x 8bit DIDO



MIC-731-AO6A1

- ✓ AGX Orin (64GB)
- ✓ 1x 10GbE LAN
- ✓ 8x GMSL
- ✓ 2x CANBus



Domain-Focus
Edge AI System

AGX Orin

Orin NX
Orin Nano

Orin NX
Orin Nano

Released

2023

2024 H1

MIC-AI Solution/Dev Kits Roadmap

Available Developing Planning EOL

Solution Kits

Xavier Gen.

Orin Gen.

MIC-713S-OX4A1

- ✓ Orin NX (16GB)
- ✓ 5x LAN, 6x USB
- ✓ 1x iDoor
- ✓ 1x 8bit DIDO



MIC-713S-OX3A1

- ✓ Orin NX (8GB)
- ✓ 5x LAN, 6x USB
- ✓ 1x iDoor
- ✓ 1x 8bit DIDO



MIC-713S-ON3A1

- ✓ Orin Nano (8GB)
- ✓ 5x LAN, 6x USB
- ✓ 1x iDoor
- ✓ 1x 8bit DIDO



MIC-713S-ON2A1

- ✓ Orin Nano (4GB)
- ✓ 5x LAN, 6x USB
- ✓ 1x iDoor
- ✓ 1x 8bit DIDO



Orin NX
Orin Nano

MIC-711D-OX4A1

- ✓ Orin NX (16GB)
- ✓ 1x LAN, 3x USB



MIC-711D-OX3A1

- ✓ Orin NX (8GB)
- ✓ 1x LAN, 3x USB



MIC-711D-ON2A1

- ✓ Orin Nano (8GB)
- ✓ 1x LAN, 3x USB



MIC-711D-ON3A1

- ✓ Orin Nano (8GB)
- ✓ 1x LAN, 3x USB



Orin NX
Orin Nano

MIC-710AILX-DVA

- ✓ Xavier NX
- ✓ 1x LAN
- ✓ 1x miniPCI



MIC-710AIL-DVA

- ✓ NANO
- ✓ 1x LAN
- ✓ 1x miniPCI



Xavier NX
Nano

Dev. Kits

Released

2023 H1

2023 H2

MIC-AI Ruggedized/NVR Product Roadmap

Available Developing Planning EOL

Ruggedized

Xavier Gen.

MIC-715-NX

- ✓ Xavier NX system
- ✓ IP67 waterproof
- ✓ 4x PoE M12 ports
- ✓ Ignition PWR design



MIC-715-OX4A1

- ✓ Orin NX (16GB)
- ✓ IP67 waterproof
- ✓ 4x PoE M12 ports
- ✓ Ignition PWR design



MIC-715-OX

- ✓ Orin NX (16GB)
- ✓ IP67 waterproof
- ✓ 4x GMSL ports
- ✓ Ignition PWR design



Orin NX

Sample Ready

MIC-730IVA

- ✓ AGX Xavier system
- ✓ 8x PoE LAN ports
- ✓ 1x Uplink LAN port
- ✓ 2x 3.5"/2.5" HDD



MIC-710IVX

- ✓ Xavier NX system
- ✓ 8x PoE LAN ports
- ✓ 1x Uplink LAN port
- ✓ 2x 3.5"/2.5" HDD



MIC-710IVA

- ✓ Nano system
- ✓ 8x PoE LAN ports
- ✓ 1x Uplink LAN port
- ✓ 2x 3.5"/2.5" HDD



MIC-717-OX4A1

- ✓ Orin NX (16GB)
- ✓ 8x PoE LAN ports
- ✓ 2x Uplink LAN port
- ✓ 1x 3.5"/2.5" HDD



Orin NX

MP: 2024/3/E

NVR

Released

2023

2024 H1

GMSL Frame Grabber & Camera Roadmap

Available Developing Planning EOL

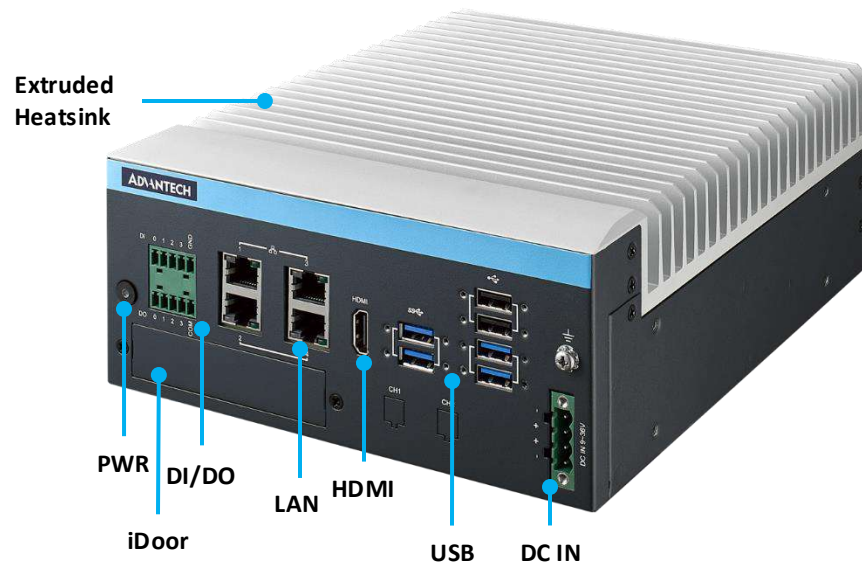




MIC-733-A0 Introduction



MIC-733-AO Product and Spec.



Model Name	MIC-733-AO5A1	MIC-733-AO6A1
NVIDIA® Platform	NVIDIA® Jetson™ AGX Orin 32GB	NVIDIA® Jetson™ AGX Orin 64GB
AI Performance	200 TOPs	275 TOPs
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
GPU	Ampere 1792 NVIDIA® CUDA® cores and 56 Tensor Cores	Ampere 2048 NVIDIA® CUDA® cores and 64 Tensor Cores
Memory	32 GB 256-bit LPDDR5	32 GB 256-bit LPDDR5
Storage	NVIDIA® Jetson™ AGX Orin 32GB	NVIDIA® Jetson™ AGX Orin 64GB
LAN	4x RJ-45 (PoE optional, 4x PoE AF/2x PoE AT)	
HDMI	1x HDMI	
USB	External: 4x USB3.0 ; 2x USB2.0 Internal: 1x USB2.0 (pin header)	
DI/DO	8 bit (4In/4Out)	
Button	External: Power Button Internal: Recovery, Reset	
COM	2x RS-232/422/485 (Internal pin header)	
SIM Holder	2x Nano SIM	
miniPCIe	2x miniPCIe	
M.2 (PCIe)	1x M.2 2280 (NVMe) 1x M.2 3052 (5G module)	
MIPI (Optional)	2x GMSL2 FAKRA	
iModule	MIC-75M10-00A1	
HxWxD (mm)	192x230x87 (mm)	

MIC-733-AO iDoor and iModule



iDoor design



MIC-75 iModule series



2-channel USB3.0



2-channel CANBus



Giga LAN Ethernet



PCE-series GbE cards



PCE-series 10GbE cards

Via iDoor, you can

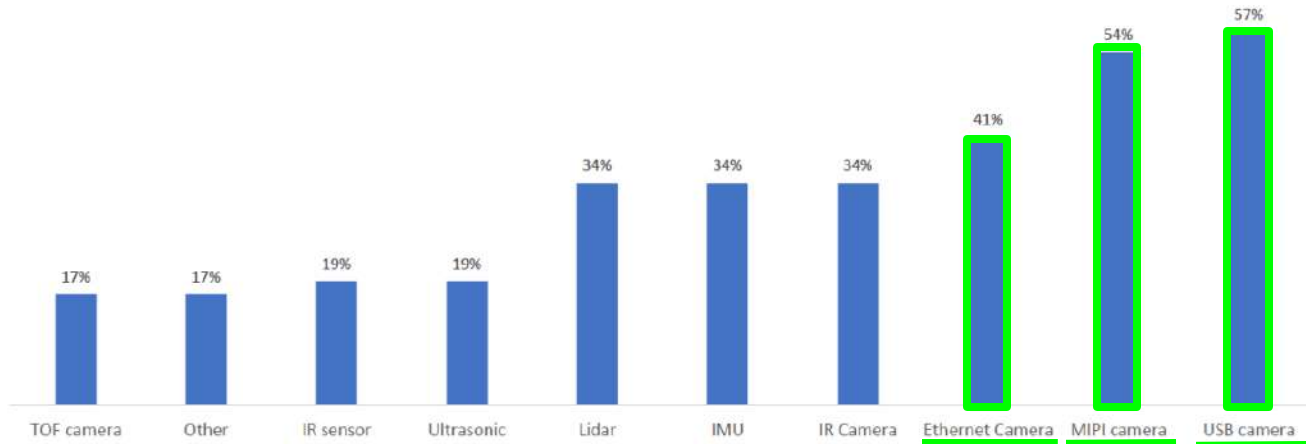
- add needed industrial interfaces without customizing chassis
- reduce time-to-market integration schedule and cost
- swap interfaces to meet various application needs

Via iModule, you can

- install full size PCIE cards to fulfill project requirement
- reduce time-to-market integration schedule and cost

Jetson Customer and Developer Survey: Sensor Usage

- TOP 3 Usage: USB camera, MIPI camera and Ethernet Camera
- Mixed-sensor integration is popular in edge AI applications
- AGX Orin superior performance is sufficient for multiple channels



Source: <https://www.nvidia.com/content/dam/en-zz/Solutions/gtc21/jetson-orin/nvidia-jetson-agx-orin-technical-brief.pdf>

MIC-733-AO Video Interfaces



MIC-733-AO

1 PoE (AF/AT) AI AOI, AMR, Security, Traffic

Up to 8x PoE

- Industrial camera
- IP camera
- Thermal camera
- LiDAR, RADAR

2 USB3.0 AI AOI, AMR

Up to 12x USB3.0

- Industrial camera
- 3D Camera
- WebCam

3 GMSL In-Vehicle, AMR

Up to 10x GMSL2

- GMSL1/2 camera

Domain-Focus Edge AI System



MIC-731-AO Product and Spec. (Preliminary)



MIC-731-AO (Concept)

Model Name	MIC-731-AO5A1	MIC-731-AO6A1
NVIDIA® Platform	NVIDIA® Jetson™ AGX Orin 32GB	NVIDIA® Jetson™ AGX Orin 64GB
AI Performance	200 TOPs	275 TOPs
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
GPU	Ampere 1792 NVIDIA® CUDA® cores and 56 Tensor Cores	Ampere 2048 NVIDIA® CUDA® cores and 64 Tensor Cores
Memory	32 GB 256-bit LPDDR5	32 GB 256-bit LPDDR5
Storage	NVIDIA® Jetson™ AGX Orin 32GB	NVIDIA® Jetson™ AGX Orin 64GB
LAN	1 GbE: 2x 10/100/1000 Mbps (Optional IEEE 802.3af/at PoE) 10 GbE: 1x 1/2.5/5/10 MGbE	
HDMI	1x HDMI	
USB	External: 2 x USB 3.2 Gen 2 Internal: 1 x USB 3.2 Gen 2 Type C USB: 1 x USB 2.0 (For BSP flash) 1 x USB 2.0 pin header	
CANBus	2 x CANBus	
DI/DO	8 bit (4In/4Out)	
Button	Power Button (External) Recovery, Reset (Internal)	
COM	2x RS-232/422/485 (Internal pin header)	
SIM Holder	2x Nano SIM	
miniPCIe	1x miniPCIe	
M.2 (PCIe)	1x M.2 2280 (NVMe) 1x M.2 3052 (AIW-355 5G module)	
MIPI Module (Optional)	2x 4-ch GMSL3/GMSL2 FAKRA	
Sensor Module (Optional)	1x IMU/MAG/AIL	
Dimension (W x H x D)	192 x 200 x 71 mm	

MIC-711(D)-OX/ON Introduction



MIC-711-OX & MIC-711-ON Spec



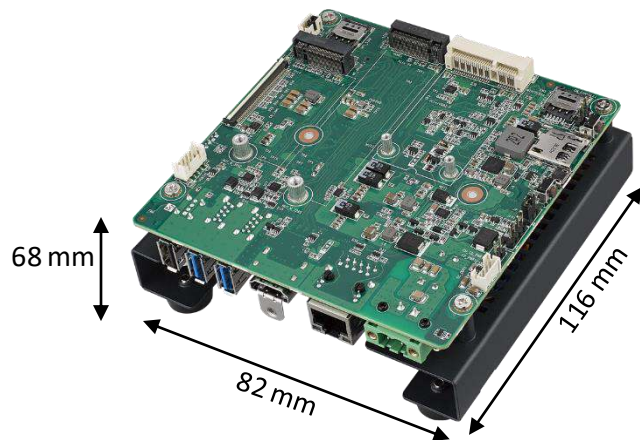
MIC-711-OX
MIC-711-ON



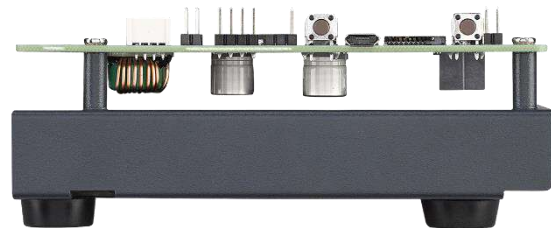
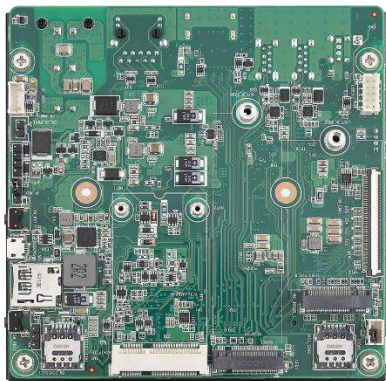
MIC-711D-OX
MIC-711D-ON

Model Name	MIC-711-OX		MIC-711-ON	
NVIDIA® Platform	NVIDIA® Jetson™ Orin NX		NVIDIA® Jetson™ Orin Nano	
AI Performance	100 TOPS	70 TOPS	40 TOPS	20 TOPS
CPU	8-Core Cortex A78AE 64-bit CPU	6-Core Cortex A78AE 64-bit CPU	6-Core Cortex A78AE 64-bit CPU	6-Core Cortex A78AE 64-bit CPU
GPU	1024 Ampere CUDA cores with 32 Tensor Cores	1024 Ampere CUDA cores with 32 Tensor Cores	1024 Ampere CUDA cores with 32 Tensor Cores	512 Ampere CUDA cores with 16 Tensor Cores
DLA	2x NVDLA	1x NVDLA	--	--
Memory	16GB 256-bit LPDDR5	8GB 256-bit LPDDR5	8GB 64-bit LPDDR5	4GB 64-bit LPDDR5
eMMC storage	N/A (OS installed on external storage, NVMe SSD as default)			
LAN	1x RJ-45			
HDMI	1x HDMI			
USB	External: 1x USB2.0 2x USB3.0		Internal 1x USB2.0	
Button	Recovery, Reset			
Storage	1x M.2 2280 (B-key NVMe) 1x microSD			
SIM Holder	1x Nano SIM			
miniPCIe	1x miniPCIe			
M.2 (PCIe)	1x M.2 3052			
Power Supply	Adaptor 100-240V 150W 19V			
HxWxD (mm)	145x115x45 (mm)			

MIC-711D-OX Dev. Kit

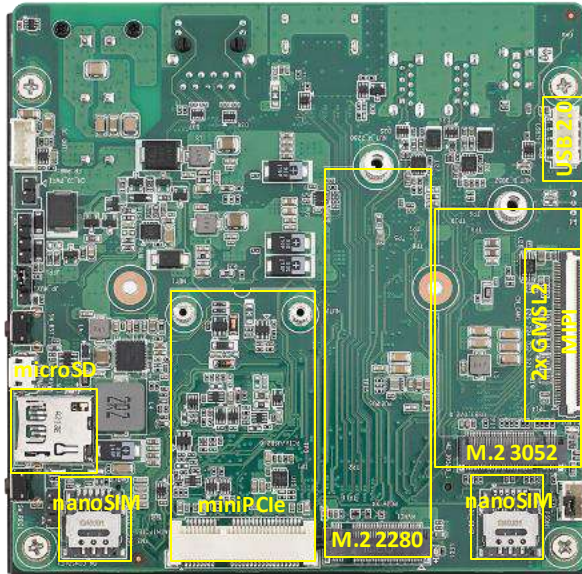
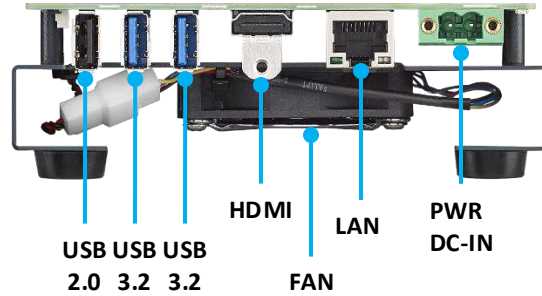


Front Side: I/O and Fan



Right Side: Reflash and microSD

MIC-711(D)-OX Interfaces and Max. Spec



Interface	Max. Spec
1x USB 2.0	USB 2.0
2x USB 3.2	USB 3.2 Gen. 1 (5G)
1x HDMI	Max. Resolution 3840x2160 @60Hz
1x LAN RJ45	10/100/1000 Mbps
1x PWR DC-IN	9~36V
1x FAN	5400RPM

Interface	Max. Spec
1x M.2 2280	PCIe x4 NVMe (128GB as default)
1x M.2 3052	USB 3.2 B-Key
1x miniPCIE	PCIe x1 + USB 2.0
1x microSD	USB 2.0
1x USB 2.0	USB 2.0 Pin Header
2x SIM	Nano SIM for miniPCIE and M.2 3052
2x GMSL2 MIPI	GMSL2 3.0 Gbps

MIC-711D-OX vs. MIC-711-OX



MIC-711D-OX



MIC-711-OX

Form Factor

Carrier Board w/ SoM

Fanless System

Purpose

Development

Development and Deployment

Op. Temp.

0 ~ +40C

-10C ~ +50C

Certification

CE/FCC

CE/FCC/CB/UL/BSMI/CCC

Warranty

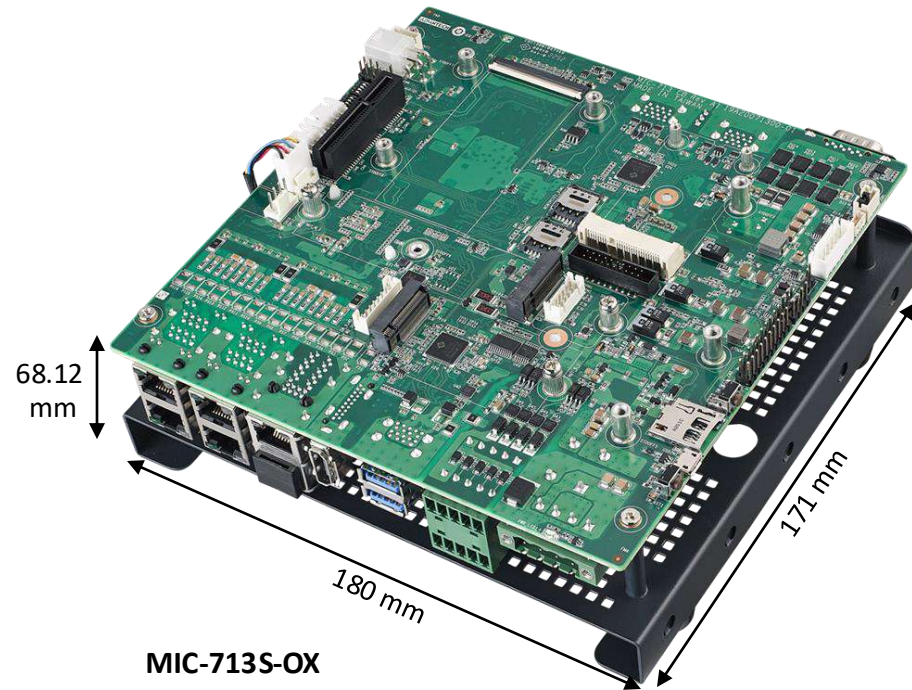
1 Yr

2 Yrs

MIC-713(S)-OX/ON Introduction



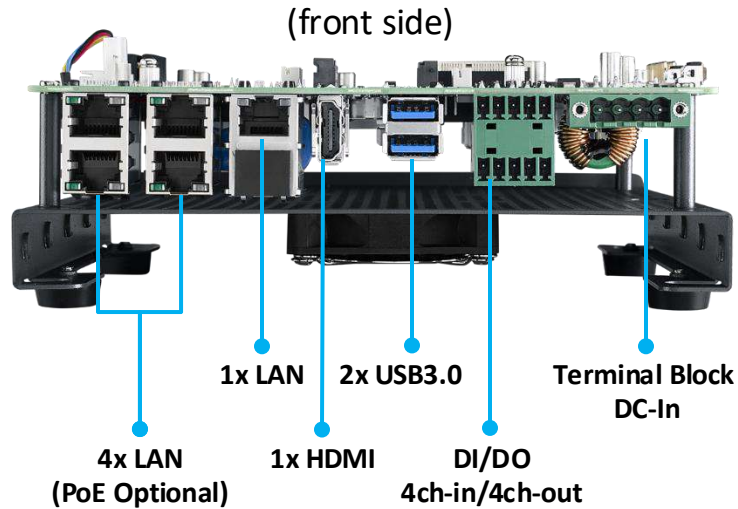
MIC-713S-OX Product and Spec.



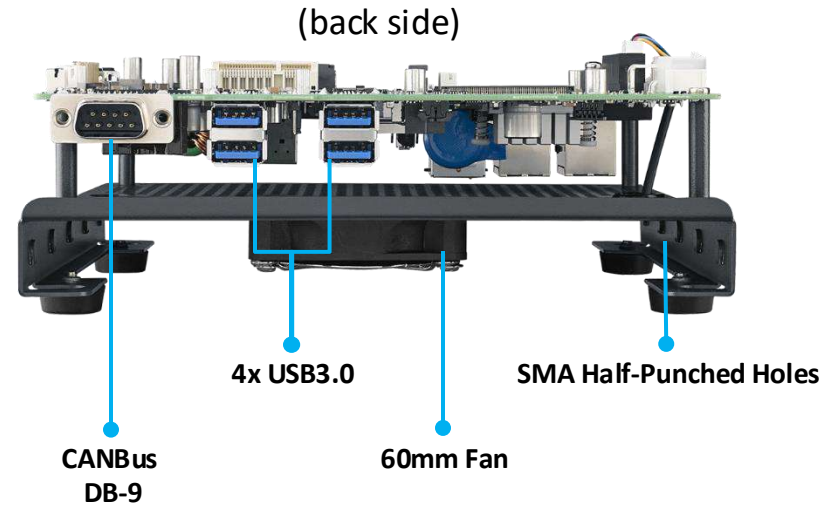
MIC-713S-OX

	Model Name	MIC-713S-OX
Processor System	CPU	16GB: 8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU
	GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores
	Memory	16GB: 16GB LPDDR5
I/O	Ethernet	5 x 10/100/1000 Mbps
	Display	HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	External: 6 x USB 3.2 Gen 1
	DI/DO	4-ch DI, 4-ch DO
	COM	2 x RS-232/422/485 (On-board pin header)
	MIPI*	1 x MIPI Slot
	OTG USB	1 x Micro USB
Expansion	PCIe	1 x PCIe4 slot (PCIex4 link, Gen 4)
	MiniPCIe	1 x mPCIe (Signal: PCIe + USB 2.0)
	M.2	1 x M.2 3052 (Signal: USB)
	SIM	2 x Nano SIM slots
Storage	M.2	1 x M.2 2280 (Signal: PCIe x1, Gen 4)
	SD Card	1 x Micro SD
Fan	Dimension	60 x 60 x 13 mm
	RPM	5400 RPM (Smart Fan)
Power	Type	Terminal block 4 pin, AT
	Input	Voltage 9 ~ 36VDC
Environment	Op. Temperature**	-10 ~ 50 °C with 0.7 m/s air flow
	Operating Humidity	95% @ 40 °C (non-condensing)
	Vibration	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis
	Shock	10G / 11ms
Mechanical	Dimensions (WxDxH)	180 x 171 x 68.12 mm (7.09 x 6.73 x 2.68 inch)
	Weight	TBD
	Installation	Desktop
BSP	Jetpack	Above 5.1
Certifications		CE/FCC (No RED certification)

MIC-713S-OX Front and Back Sides

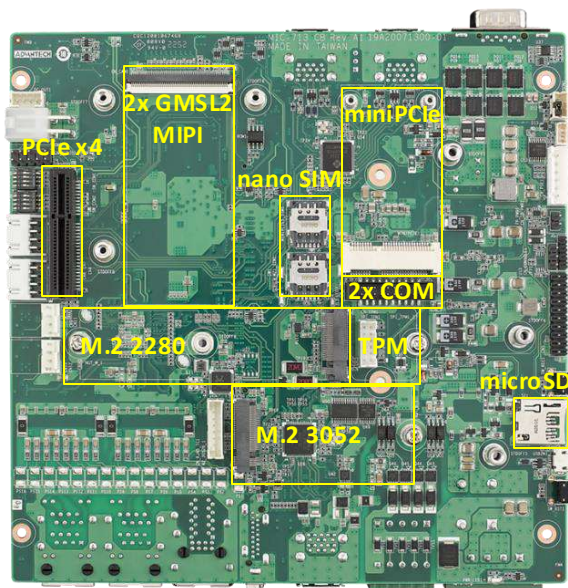


Interface	Max. Spec
4x LAN/PoE	Bandwidth: 4x 10/100/1000 Mbps Power: 4x 302.3af (15.4W) or 2x 302.3at (30W)
1x LAN	1x 10/100/1000 Mbps
1x HDMI	Max. resolution 3840x2160@60Hz
2x USB3.2	Signal: 2x USB3.2 Gen 1 Power: up to 15Watt



Interface	Max. Spec
4x USB3.0	Signal: 4x USB3.2 Gen 1 Power: up to 4.5Watt
1x CANBus	CANBus by DB-9
1x 60mm Fan	Max. 5400RPM (Smart Fan), 60x60x13 (mm)

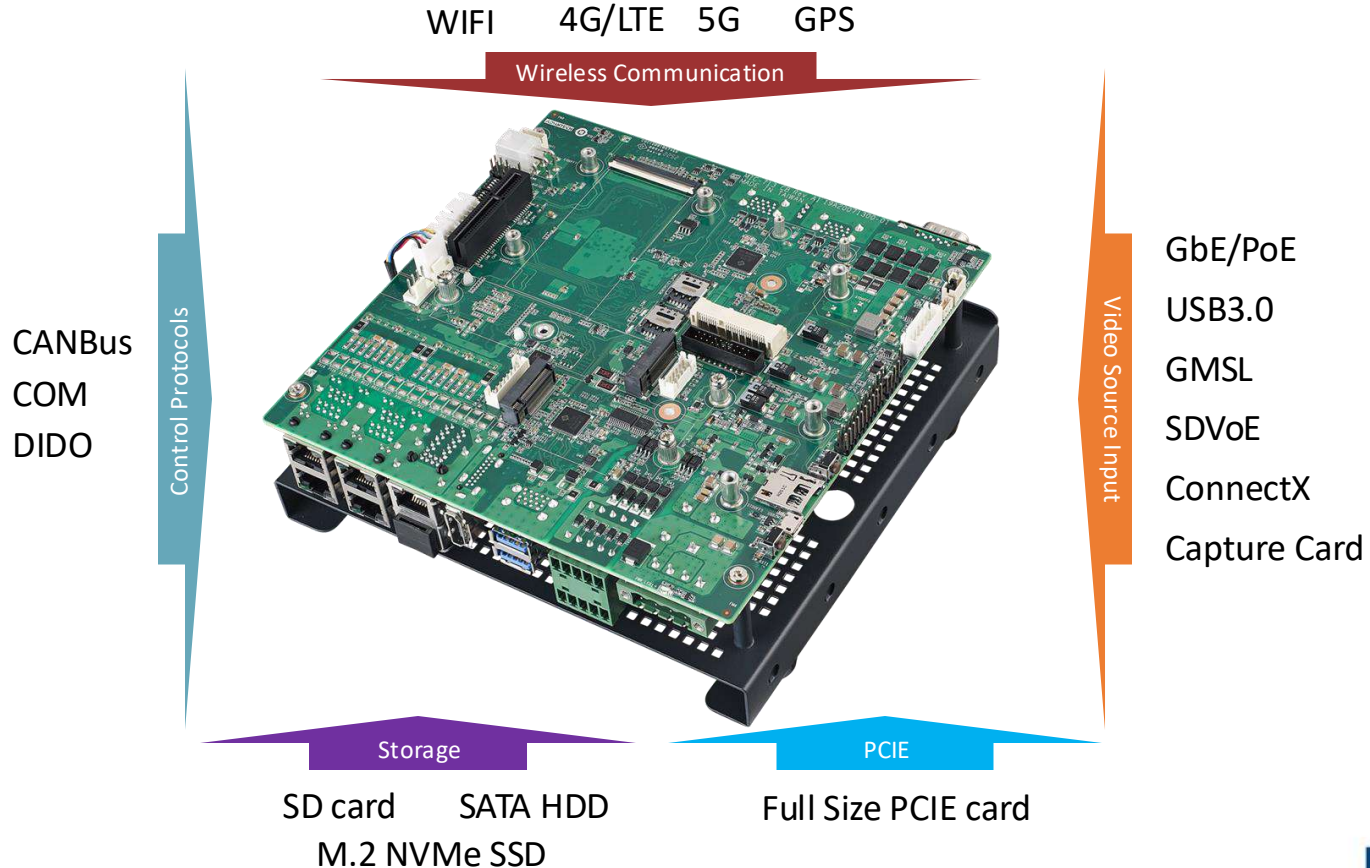
Slots on MIC-713S-OX Solution Kit



Interface	Max. Spec
1x M.2 2280	PCIe x1, Gen 4 NVMe (128GB as default)
1x M.2 3052	USB 3.2 B-Key
1x miniPCIE	PCIe x1, Gen4 + USB 2.0
1x PCIe x4	PCIe x4, Gen 4
1x microSD	USB 2.0
2x COM	2x RS-232/422/485

Interface	Max. Spec
2x nano SIM	1x nano SIM for 4G/LTE 1x nano SIM for 5G
2x GMSL (optional)	2x GMSL2 3.0 Gbps
1x TPM (optional)	TPM function

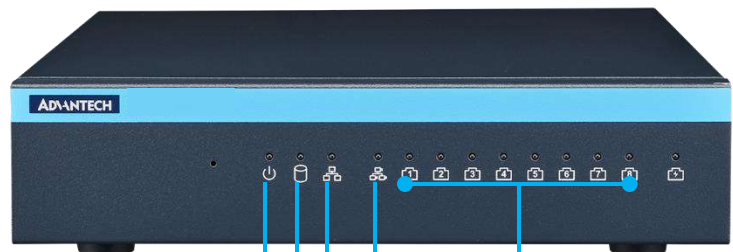
MIC-713S-OX Design-In Implementation



MIC-717-OX/ON Introduction



MIC-717-OX/ON Design and Specification



PWR
Storage
Uplink
Camera Link
Camera Status



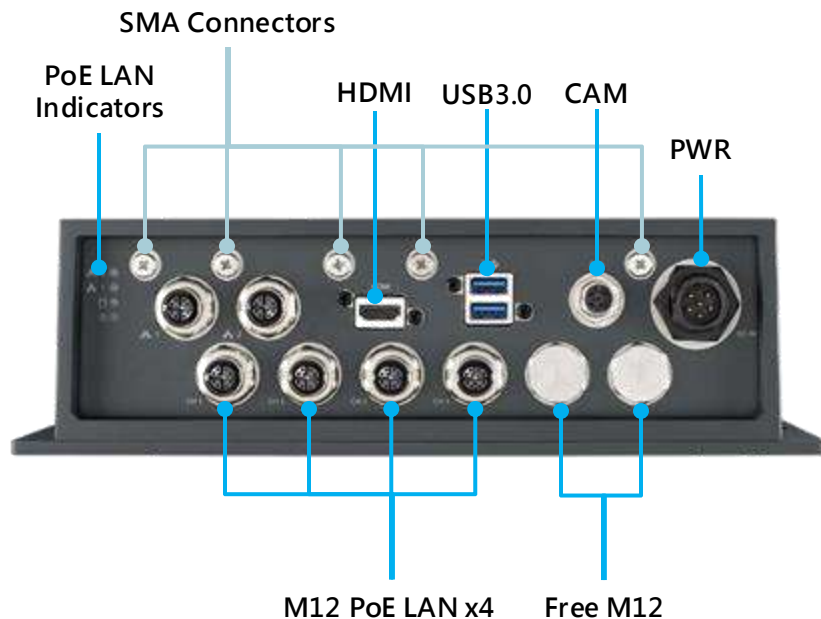
2x USB
HDMI
2x Uplink LAN
8x PoE LAN
PWR Input
4in/4out DIDO

Spec		MIC-717-OX4A1
Jetson Module		NVIDIA® Jetson™ Orin NX
TOPS		100 TOPS
Processor		8-Core Cortex A78AE 64-bit CPU
Graphics		1024 Ampere CUDA cores with 32 Tensor Cores
DL Accelerator		2x NVDLA
Memory		16GB 256-bit LPDDR5
Ethernet	Interface	10/100/1000 Mbps
	Controller	Gbe LAN: Intel IP1810, Realtek RTL8211FS-CG
	Connector	2 x RJ-45 (1 x uplink, 1 x camera uplink)
Front I/O	LED Q'ty	13 (8x Camera Status, 1x Camera Link, 1x Uplink, 1x Storage, 1x PWR)
Rear I/O	Ethernet	2 x RJ-45 (1 x uplink, 1 x camera uplink)
	USB 2.0	2x USB2.0
	HDMI	1x HDMI
	DIO	4 in; 4 out
	PoE Ports	8x RJ-45 (10/100 Mbps + PoE / Total power: 123.2W)
Data Storage	3.5" HDD Tray	1x 3.5" HDD Tray
Dimension	W x D x H	254.5 x 195.0 x 44.45 (mm) / 10.0" x 7.67" x 1.75"
Power Supply	Power Input	54V, 4.26A
	Power Type	Adapter (External)
Environment	Op. Temp.	0 to 50° C
	Storage Temp.	(-20 to 60° C)

MIC-715-OX Introduction



MIC-715-OX Design and Specification



Spec	MIC-715-OX4A1
Jetson Module	NVIDIA® Jetson™ Orin NX
Processor	8-Core Cortex A78AE 64-bit CPU
Graphics	1024 Ampere CUDA cores with 32 Tensor Cores
DL Accelerator	2x NVDLA
Memory	8GB LPDDR4
Flash	16GB 256-bit LPDDR5
Video Interface	4x RJ45 LAN w/ PoE (M12)
I/O Interface	2x USB3.0
	1x HDMI Display
	1x CANBUS (M12)
	2x RJ45 Lan (M12)
	5x Antenna (2 for 4G/LTE or 5G, 2 for WIFI, 1 for GPS)
	2x free M12
Internal Slot	1x M.2 2280 M-key (for Storage)
	1x M.2 3052 B-key (for 5G module AIW-355DQ)
	2 x miniPCIe (for WIFI/BT, 4G/LTE or others)
	1x microUSB (for BSP reflash)
	1x SIM slot (for 4G/LTE)
Chassis	IP67, Mounting Kit
Power	DC 9V~36V
Operation Temp.	-25°C ~ 60°C
Dimension (W*H*D)	220x79x245 (mm)

MIC-715-OX IP67 Ruggedized Edge AI System

AGV/Forklift

Logistic goods carrier



Heavy Industrial Machine

Construction, Mining, Agriculture, ...



Mission-Critical Applications

Oil & Gas transportation



Jetson Xavier Generation Systems

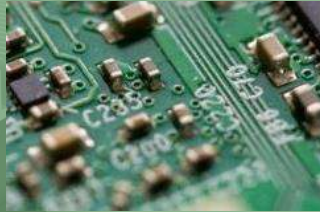


Application Fields for JETSON Xavier Series



MIC-730AI

Edge AI Systems



AI AOI



Healthcare



MIC-730IVA

AI NVR



Warehouse/Logistics



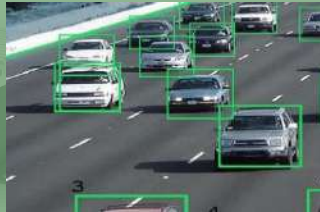
MIC-710IVX



Smart City/Retail



MIC-710AIX/AIT/AI



Traffic Monitoring



Robot Guidance



MIC-710AILX/AILT/AI



Manufacturing



Agriculture



MIC-715-NX

Ruggedized System



Heavy Machine/Gas&Oil

MIC-AI BSP and SW Support



MIC-AI Jetpack BSP Support Table

	JP 5.0.2	JP 5.1	JP 5.1.1	JP 5.1.2	JP 6.0 EA
Orin Generation					
MIC-733-AO6A1 (64GB)				Beta Ready	
MIC-733-AO5A1 (32GB)					
MIC-715-OX4A1 (16GB)		Beta ready		Beta Ready	
MIC-713(S)-OX4A1 (16GB)					
MIC-713(S)-OX3A1 (8GB)				Beta Ready	
MIC-713(S)-ON3A1 (8GB)			Beta Ready	Beta Ready	
MIC-713(S)-ON2A1 (4GB)			Beta Ready	Beta Ready	
MIC-711(D)-OX4A1 (16GB)					
MIC-711(D)-OX3A1 (8GB)					
MIC-711(D)-ON3A1 (8GB)				Beta Ready	
MIC-711(D)-ON2A1 (4GB)				Beta Ready	
Xavier Generation					
MIC-730AI					
MIC-730IVA					
MIC-715-NX			Beta Ready		
MIC-710AIX				Beta Ready	
MIC-710AILX (8GB)					
MIC-710AILX-DVA (16GB)					



Available on Website



Beta under DQA



Developing for Beta

ADI-ANTECH

MIC-AI Jetpack BSP Support Table

	JP 4.4	JP 4.4.1	JP 4.6 (Mass)	JP 4.6 (Disk)	JP 4.6.1
Xavier Generation					
MIC-730AI	Available on Website		Available on Website	Available on Website	
MIC-730IVA	Available on Website	Beta under DQA	Beta under DQA	Beta under DQA	
MIC-715-NX		Available on Website	Available on Website	Beta under DQA	
MIC-710AIX	Available on Website	Available on Website	Available on Website	Available on Website	
MIC-710AI	Available on Website		Available on Website	Available on Website	
MIC-710AILX		Available on Website	Available on Website	Available on Website	
MIC-710AILX-DVA					Available on Website
MIC-710AIL		Available on Website	Available on Website	Available on Website	
MIC-710AIL-DVA		Available on Website	Available on Website	Available on Website	
MIC-710IVX	Available on Website	Available on Website	Beta under DQA	Beta under DQA	Beta under DQA
MIC-710IVA	Available on Website				



Available on Website



Beta under DQA



Developing for Beta

MIC-AI GMSL Camera Support Table

	e-con Systems			Sensing			
MIC-733-AO6A1 (64GB)							
MIC-733-AO5A1 (32GB)							
MIC-715-OX4A1 (16GB)							
MIC-713(S)-OX4A1 (16GB)							
MIC-713(S)-OX3A1 (8GB)							
MIC-713(S)-ON3A1 (8GB)							
MIC-713(S)-ON2A1 (4GB)							
MIC-711(D)-OX4A1 (16GB)							
MIC-711(D)-OX3A1 (8GB)							
MIC-711(D)-ON3A1 (8GB)							
MIC-711(D)-ON2A1 (4GB)							



Available on Website



Beta under DQA



Developing for Beta

ADVANTECH

NVIDIA Jetpack & Its SDK

Jetpack SDK	Ubuntu OS	Jetson Linux	Tensor-RT	CUDA Toolkit	cuDNN	Deep-Stream	openCV
4.2.2	18.04	32.2.1	5.1.6.1	10.0.326	7.5.0.56	4.0.1	3.3.1
4.3	18.04	32.3.1	6.0.1	10.0.326	7.6.3	4.0.2	4.1.1
4.4	18.04	32.4.3	7.1.3	10.2	8.0.0	5.0	4.1.1
4.4.1	18.04	32.4.3	7.1.3	10.2	8.0.0	5.0	4.1.1
4.6	18.04	32.6.1	8.0.1	10.2	8.2.1	6.0	4.1.1
4.6.1	18.04	32.7.1	8.2.1	10.2	8.2.1	6.0	4.1.1
5.0.2	20.04	35.1	8.4.1	11.4	8.4.1	6.1	4.5.4
5.1.1	20.04	35.3.1	8.5.2	11.4.19	8.6.0	6.2	4.5.4
5.1.2	20.04	35.4.1	8.5.2	11.4.19	8.6.0		

Note: Please check [NVIDIA Jetpack release notes](#) for all compatible Libraries and APIs

Know More about MIC-AI



MIC-AI Academy Training Courses



AI Deployment Workshop-Booting from The External Device [\[LINK\]](#)

1. Booting from External Devices Introduction
2. Preparation and Setting MIC-710AIX
3. Booting up Advantech BSP from External Storage
4. Building, Reflashing, and Duplicating Golden Image



AI Deployment Workshop-Fast Track AI Model Adaptation With Pre-trained Model & NVIDIA TAO Toolkit [\[LINK\]](#)

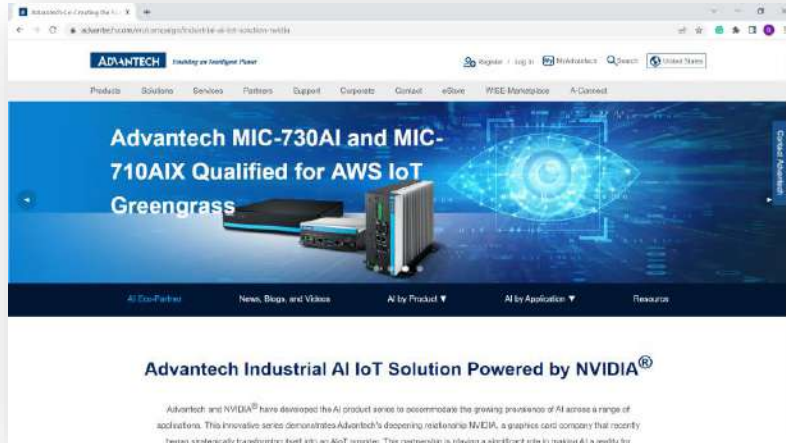
1. Introduction for NVIDIA TAO Toolkit
2. NVIDIA TAO Toolkit Demo
3. DeepStream SDK Introduction
4. DeepStream SDK Demo in Advantech MIC-710AIX



AI Deployment Workshop- Allxon Remote Management for Edge AI Devices [\[LINK\]](#)

1. Introduction for Allxon Remote Management Solutions
2. Start Allxon with MIC-710AIX
3. Out-Of-Band (OOB) Mechanism and Process
4. Over-the-Air (OTA) Function and Process
5. Allxon plugIN: GPU Monitoring on Allxon Portal

Product Page and Case Studies



Advantech Industrial AI IOT Solutions

- [\[LINK\]](#) Product introduction
- [BSP download](#)
- UML and brochure



Advantech MIC-AI Case Studies [\[LINK\]](#)

- Successful case studies
- Application block diagram
- Related products



NVIDIA Jetson SoM Lifecycle

Commercial Module	Available through
Jetson AGX Orin 64GB	January 2030
Jetson AGX Orin 32GB	January 2030
Jetson Orin NX 16GB	January 2030
Jetson Orin NX 8GB	January 2030
Jetson Orin Nano 8GB	January 2030
Jetson Orin Nano 4GB	January 2030
Jetson AGX Xavier 64GB	January 2025
Jetson AGX Xavier (32GB)	January 2028
Jetson Xavier NX 16GB	January 2026
Jetson Xavier NX (8GB)	January 2028
Jetson TX2 NX	February 2026
Jetson TX2	January 2025
Jetson Nano	January 2027

AGX Orin, Orin NX, Orin Nano
Jan. 2030

AGX Xavier, Xavier NX
Jan. 2028

<https://developer.nvidia.com/embedded/lifecycle>

(NVIDIA will release EOL notice 9 months before EOL)

Co-Creating the Future of the IoT World



MIC-AI Product Naming Rule

MIC-711_(D)-OX4_{A 1}

SoM Form Factor

- **1: SODIMM form factor**
- 2: TX form factor
- 3: Xavier/Orin form factor

System Form Factor

- **1: Lite Industrial**
- 3: Industrial
- 5: Ruggedized
- 7: NVR

Carrier board/Dev

- Board-level
- **D: Dev. Kit**
 - S: Solution Kit
- Domain Focus:
- M: Medical
 - I: Industrial
 - E: Enterprise

SoM Module Name

- AO: AGX Orin
- **OX: Orin NX**
- ON: Orin Nano
- AX: AGX Xavier
- NX: Xavier NX
- NA: Nano
- TX: TX2 NX

Memory

- 2:4G
- 3:8G
- **4:16G**
- 5:32G
- 6:64G

Spec Diff. No.

- A: Carrier board revision
- 1: BOM change