組み込みモジュール, IPC, AI 製品紹介

MACNICA

2026/4
Rev8

©Macnica,Inc.

Agenda

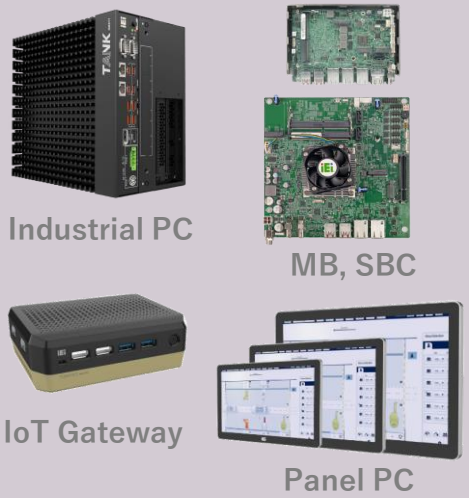
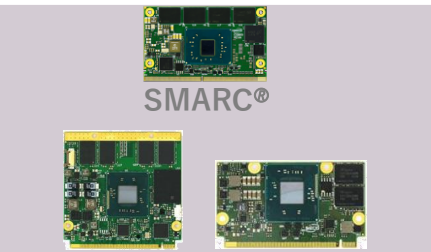
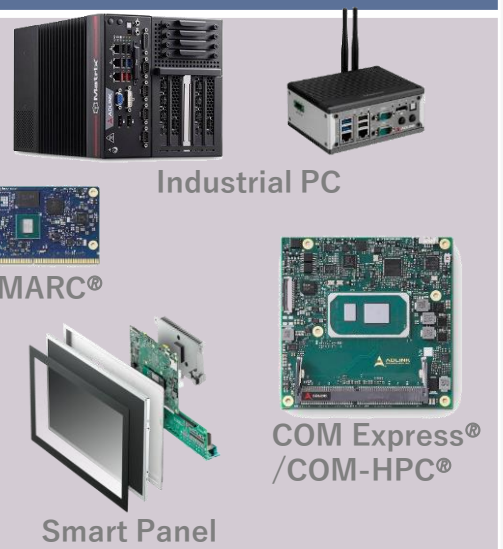
本資料について

- マクニカがお勧めする CPU, AI 製品を抜粋しております
- CPU 製品詳細情報はメーカー製品ページへとリンクしております

- 本資料は一部の開発中製品も掲載しております

©Macnica,Inc.

Each Vendor Overview -1

IPC Vendor	Advantech Co., Ltd.	IEI Integration Corp.	SECO S.p.A.	ADLINK Technology, Inc.
Main Product	 Computer-on-Module, MB, SBC, Industrial PC, COM Express®	 Industrial PC, MB, SBC, IoT Gateway, Panel PC	 SMARC®, Qseven®/uQseven®, COM Express®/COM-HPC®	 Industrial PC, SMARC®, COM Express®/COM-HPC®, Smart Panel
HQ	台湾	台湾	イタリア	台湾
Office	日本、中国、US、ドイツ、韓国、シンガポール、タイ、フィリピン	中国、US、オランダ	台湾、US、インド、ドイツ	中国、韓国、日本、シンガポール、US、ドイツ、UK、フランス、オランダ、イスラエル
Establish	1981年	1997年	1979年	1995年
Revenue	1,824M USD(CY24)	215M USD(CY24)	198M USD(CY24)	309M USD (CY24)
Employee	8,800人	1,590人	850人	1,800人

©Macnica,Inc.

Each Vendor Overview -2

IPC Vendor	Axiomtek Co., Ltd.	HAILO Technology LTD,
Main Product	 Industrial MB  COM Express®  Fan-less Box型PC  Image Processing	 Chip  M.2 / mPCIe  PCIe Card(Multiple Hailo-8)
HQ	台湾	イスラエル
Office	中国、US、ドイツ、イタリア、マレーシア、タイ、UK	日本、US、ドイツ、台湾、韓国、中国
Establish	1990年	2017年
Revenue	210M USD(CY24)	-
Employee	750人	300人

©Macnica,Inc.

Brief Information

IEI Integration Corp.

IPC Vendor	IEI Integration Corp.
Main Product	 SBC  MB   Industrial PC  IoT Gateway  Panel PC

<メーカー特徴>
MB, SBC, PPC, Box型 / Panel PC 等幅広くラインナップ。OEM/ODMにも対応。

Processor / SoC	インテル®(Mainly), AMD®, Rockchip®, NXP®, Marvell®	
Form factor & Product	Motherboard	ATX, Micro-ATX, Mini-ITX, Extended ITX
	SBC	Pico-ITX, EPIC, 3.5“, 2.5”
	Panel PC	Monitor Size 6"~24", Medical Safety & EMC Compliant
	Touch Monitor	Monitor Size 10.1"~23.8”
	Box 型 PC	Medical BOX PC
Support	OEM, ODM	
	Configuration to order	Memory, Storage, WiFi Module, OS, Others
	Warranty	2 year from IEI shipment

©Macnica,Inc.
＊赤字：New Information

SECO S.p.A

IPC Vendor	SECO S.p.A
Main Product	 SMARC®   Qseven®/uQseven®  COM Express®  COM-HPC®  SBC

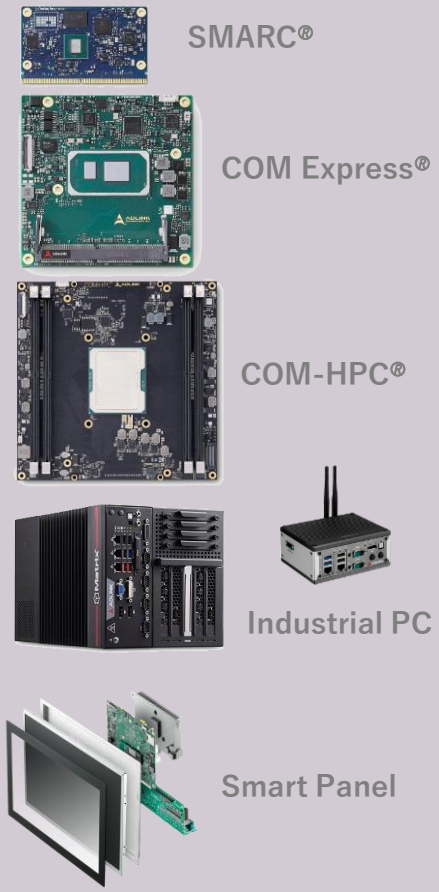
<メーカー特徴>
Qseven®, COM Express™, SMARC®等 Module や SBC 中心ランナップ。OEM/ODMにも対応。

Processor / SoC	インテル®, NXP®(i.MX6/8/9), AMD®, MediaTek	
Form factor & Product	Qseven®, μQseven ®(70 x 70mm, 40 x 70mm)	
	COM Express®	Type 6 Basic & Compact
	SMARC®	
	COM-HPC®	
	SBC	Pico-ITX, 3.5", Embedded NUC
	Panel PC	Monitor Size 10.1"
Support	OEM, ODM	Means plus & minus customization at standard product
		Custom Carrier Board Design & Chassis
	Configuration to order	Memory, Storage, OS, Others
	Warranty	1 year from SECO shipment

©Macnica,Inc.
＊赤字：New Information

ADLINK Technology, Inc.

IPC Vendor	ADLINK Technology, Inc.



Main Product

<メーカー特徴>
COM Express®, SMARC® 等 Module, SBC や Panel / Box 型 PC と幅広いランナップ。

Processor / SoC	インテル®, AMD®, NXP®(i.MX6/8/9), NVIDIA®, MediaTek	
Form factor & Product	COM Express®	Type 2, 6, 7, 10
	SMARC®	
	COM-HPC®	
	Open Standard Module™(OSM)	
	SBC	ATX, Micro-ATX, Mini-ITX, 3.5"
	BOX PC	General, Edge AI
	Panel PC	Monitor Size 7”~23.8”, Medical Safety & EMC Compliant
	Touch Monitor	Monitor Size 21.5"~27” , Medical Safety
	ROS	
Support	OEM, ODM	
	Configuration to order	Memory, Storage, OS, Others
	Warranty	2 year from ADLINK shipment

©Macnica,Inc.
＊赤字：New Information

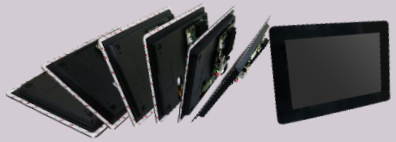
Advantech Co., Ltd.

IPC Vendor	Advantech Co., Ltd.
Main Product	 SMARC®  COM Express®  OSM  SBC  Industrial PC  Panel PC

<メーカー特徴>
業界最大手の Computing / Solution メーカー。幅広いランナップで OEM/ODMにも対応。

Processor / SoC	インテル®, AMD®, NXP®(i.MX6/8/9), NVIDIA®, Rockchip, MediaTek, Qualcomm	
Form factor & Product	COM Express®	Type 6, 7, 10
	SMARC®	
	Open Standard Module™(OSM)	
	SBC	ATX, Micro-ATX, Mini-ITX, 2.5", 3.5"
	Panel PC	RISC-based PPC, industrial all-in-one, and high computing configurable PPC for various industrial applications.
	BOX PC	General, Edge AI
Support	OEM, ODM	
	Configuration to order	Memory, Storage, OS, Others
	Warranty	2 year from Advantech shipment

ODM(Custom) Solution

IPC Vendor	IEI Integration Corp.	SECO S.p.A.
Custom Solution		 
	過去の提案・対応事例 ・Driver, BSP カスタム ・SBC 医療用規格対応 ・マイナスカスタム ・ケース防水防塵対応 ・温度範囲拡張 ・インターフェース、コネクタカスタム ・OS 対応拡張 ・外箱のラベル変更	過去の提案・対応事例 ・Driver, BSP カスタム ・Dual OS 対応 ・Touch Panelカスタム ・HDMI プチェック ・EMC プレチェック ・Board 形状カスタム ・Carrier Board 設計、チェック

お客様

項目
モジュール、IPC 製品ご提案
契約条件すり合わせ
開発要件定義
納品物定義
開発スケジュール調整
見積もり/開発費用受発注
契約書締結

- Customizable Condition
  - 開発費は要求仕様に依存
  - 1Kpcs+/year（応相談）
- ご要望ありましたら、ご相談ください

CPU

製品ページリンク インテル® Core-i（コア種類 vs 形状）

	Maker	COM-HPC®	COM Express®	SMARC®	Qseven®	SBC/MB	Box型PC	Panel PC
インテル® Arrow Lake (Core™ Ultra シリーズ2)	SECO	Client	Type-6	-	-	-	-	-
	ADLINK	-	-	-	-	-	-	-
	iEi	-	-	-	-	ATX	BOX	-
	ADVANTECH	Mini	-	-	-	micro-ATX	-	-
インテル® Meteor Lake (Core™ Ultra シリーズ1)	SECO	Client	Type-6	-	-	-	-	-
	ADLINK	Mini	Compact Type-6	-	-	ATX	BOX	○
	iEi	-	-	-	-	ATX, micro-ATX, Mini-ITX	BOX	-
	ADVANTECH	Client	Type-6	-	-	3.5“, EPIC, Mini-ITX, micro-ATX	-	-
インテル® Raptor Lake (第13世代)	SECO	Client	Type-6	-	-	-	-	-
	ADLINK	Client	Type-6	-	-	3.5”, Mini-ITX, ATX	BOX w/Hailo	○
	iEi	Client	-	-	-	Mini-ITX, micro-ATX, ATX	BOX	○
	ADVANTECH	-	Compact Type-6	-	-	3.5”, EPIC, Mini-ITX, micro-ATX	○	-
インテル® Alder Lake-P (第12世代)	SECO	Client	-	-	-	-	-	
	ADLINK	Server (Xeon, Ice Lake-D)	Type-6	-	-	ATX, Mini-ITX	○	○
	iEi	Client	-	-	-	3.5”, EPIC, micro-ATX, ATX	DIN , BOX	-
	ADVANTECH	Server (Xeon, Ice Lake-D)	-	-	-	3.5”, EPIC, Mini-ITX, micro-ATX	○	-

MACNICA

©Macnica,Inc.

＊赤字：New Information

製品ページリンク インテル® Atom（コア種類 vs 形状）

	Maker	COM-HPC®	COM Express®	SMARC®	Qseven®	SBC/MB	Box型PC	Panel PC
インテル® Amston Lake	SECO	-	Type-6	○	-	Pico-ITX	-	-
	ADLINK	-	Type-6	○	-	-	-	-
	iEi	-	-	-	-	3.5”	-	○
	ADVANTECH	-	Type-6	○	-	3.5”	-	-
インテル® Alder Lake-N	SECO	-	Type-6	○	-	Pico-ITX	-	-
	ADLINK	-	Type-6	○	-	3.5” , Mini-ITX	○	-
	iEi	-	-	-	-	3.5”, Pico-ITX	-	○
	ADVANTECH	-	Type-10 Compact Type-6	○	-	3.5”, EPIC, Mini-ITX	○	○
インテル® Elkhart Lake	SECO	-	Compact Type-6	○	○	-	-	-
	ADLINK	-	Type-6, 10 Compact Type-6	○	-	-	Media Player	○
	iEi	-	-	-	○	3.5”, EPIC, Pico-ITX	○, ○	○
	ADVANTECH	-	Type-10 Compact Type-6	○		3.5”, EPIC, Mini-ITX	○	○

©Macnica,Inc.

製品ページリンク AMD®（コア種類 vs 形状）

	Maker	COM-HPC®	COM Express®	SMARC®	Qseven®	SBC/MB	Box型PC	Panel PC
AMD® EPYC™	SECO	-	-	-	-	-	-	-
	ADLINK	-	-	-	-	-	-	-
	iEi	-	-	-	-	-	-	-
	ADVANTECH	○	-	-	-	Mini-ITX, Micro-ATX	○	-
AMD® Ryzen™ Embedded	SECO	○	Type-6					
	ADLINK	-	Type-6	-	-	-	-	-
	iEi	-	-	-	-	Micro-ATX, ATX	○	-
	ADVANTECH	-	Type-6	-	-	3.5”, Mini-ITX, Micro-ATX	○	-
	SECO	-	-	-	-	-	-	-
	ADLINK	-	-	-	-	-	-	-
	iEi	-	-	-	-	-	-	-
	ADVANTECH	-	-	-	-	-	-	-

©Macnica,Inc.

製品ページリンク Arm®（コア種類 vs 形状）

	Maker	OSM (Open Standard Module™)	COM Express®	SMARC®	Qseven®	SBC	オリジナル	Panel PC
NXP® i.MX9	SECO	-	-	○	-	-	-	-
	ADLINK	○	-	○	-	-	-	-
	ADVANTECH	○	○	○	-	-	-	-
NXP® i.MX8, 8M, 8X, 8UL	SECO	-	-	○	○	3.5”	-	-
	ADLINK	○	-	○	-	-	BOX Gateway	○
	ADVANTECH	○	-	○	-	-	-	○
MediatTek® Genio	SECO	-	-	○	-	-	-	-
	ADLINK	○	-	○	-	-	-	-
	ADVANTECH	-	-	-	-	-	-	-
Qualcomm® X Elite RB5, QCS	SECO	-	-	○	-	-	-	-
	ADLINK	-	-	○	-	-	-	-
	ADVANTECH	-	-	○	-	3.5”, mini-ITX	○	-

©Macnica,Inc.

製品ページリンク Arm®（Module 形状 vs サポートOS）①

Module Type	Maker	CPU Series	Model	Linux	Android	VxWorks	Windows®
SMARC®	ADLINK	i.MX 95	LEC-IMX95	Yocto	○	-	-
	ADLINK	i.MX 8M Mini	LEC-IMX8MM	Yocto	○	○	-
	ADLINK	i.MX 8M Plus	LEC-IMX8MP	Yocto	○	○	○
	ADLINK	i.MX 8M	LEC-iMX8M	Yocto	○	-	○
	ADLINK	Genio 1200	LEC-MTK-I1200	Canonical Ubuntu, Yocto Linux	-	-	-
	ADLINK	QRB5165	LEC-RB5N	Canonical Ubuntu, Yocto Linux	-	-	-
	SECO	i.MX 93	SOM-SMARC-MX93	Yocto	-	-	-
	SECO	i.MX 8M Plus	SOM-SMARC-MX8M-Plus	Yocto	○	-	-
	SECO	iMX 8X	SOM-SMARC-MX8X	Yocto	○	-	-
	SECO	iMX 8M	SOM-SMARC-MX8M	Yocto	○	-	-
	SECO	Genio 500	SOM-SMARC-Genio510	Yocto	○	-	-
	SECO	Genio 700	SOM-SMARC-Genio700	Yocto	○	-	-
	ADVANTECH	i.MX8M Plus	ROM-5722	Yocto	-	-	-
	ADVANTECH	i.MX8M Mini	ROM-5721	Yocto	○	-	-
	ADVANTECH	i.MX8M	ROM-5720	Yocto	○	-	-

©Macnica,Inc.

製品ページリンク Arm®（Module 形状 vs サポートOS）②

Module Type	Maker	CPU Series	Model	Linux	Android	VxWorks	Microsoft®
μQseven®	SECO	i.MX 8M Mini, i.MX 8M Nano	SOM-uQ7-MX8M-Mini-Nano	Yocto	-	-	-
Qseven®	SECO	iMX 8X	SOM-Q7-MX8X	Yocto	○	-	-
	SECO	i.MX 8M	SOM-Q7-MX8M	Yocto	○	-	-
	SECO	i.MX 8	SOM-Q7-MX8	Yocto	○	-	-
Myon Micro Module SOM	SECO	i.MX 8M Mini, i.MX 8M Nano	SOM-Myon-II-MX8M-Mini	Yocto, debian	○	-	Windows® 10 IoT
Trizeps SODIMM SOM	SECO	i.MX 8M	SOM-Trizeps-VIII-MX8M	Yocto, debian	○	-	Windows® 10 IoT
	SECO	i.MX 8M Plus	SOM-Trizeps-VIII-MX8M-Plus	Yocto, debian	○	-	Windows® 10 IoT
	SECO	i.MX 8M Mini	SOM-Trizeps-VIII-MX8M-Mini	Yocto, debian	○	-	Windows® 10 IoT
Open Standard Module (OSM)	ADLINK	i.MX93	OSM-IMX93	Yocto	-	-	-
	ADLINK	i.MX93	OSM-IMX95	Yocto	-	-	-
	ADLINK	i.MX8MP	OSM-IMX8MP	Yocto	○	-	-
	ADLINK	Genio 510	OSM-MTK510	Yocto	○	-	-
	ADVANTECH	i.MX 8ULP	ROM-2620	Yocto	-	-	Azure Sphere
	ADVANTECH	i.MX 93	ROM-2820	Yocto	-	-	Azure Sphere
	ADVANTECH	i.MX 95	AOM-2521	Yocto, Ubuntu	-	-	Windows® 11
	ADVANTECH	QCS6490	AOM-2721	Yocto, Ubuntu	-	-	Windows® 11

©Macnica,Inc.

MXM/PEG GPU

ADLINK MXM GPU 製品 サポート PC ページリンク

DLAP-5200 Series

- High-Performance, Fanless AI IPC Based on 12th/13th Generation Intel® Processor
- Up to 128GB DDR5 4800MHz Memory.
- Supports MXM 3.1 Type A/B form factor GPU module.

GPU Maker	Maker	GPU Series	Model	Card Type	Linux	Microsoft®
NVIDIA®	ADLINK	Quadro® Embedded A500	EGX-MXM-AD2000	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADLINK	Quadro® Embedded T1000	EGX-MXM-A4500	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADLINK	Quadro® Embedded A2000	EGX-MXM-A2000	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADLINK	Quadro® 2000A	MXM-AXe	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 500 Blackwell *New*	EGX-MXM-BW500	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 2000 Blackwell *New*	EGX-MXM-BW2000	MXM 3.1 Type A	○	Windows® 11 Preliminary
NVIDIA®	ADLINK	Quadro® RTX 4000 Blackwell *New*	EGX-MXM-BW4000	MXM 3.1 Type B	○	Windows® 11 Preliminary
NVIDIA®	ADLINK	Quadro® RTX 5000 Blackwell *New*	EGX-MXM-BW5000	MXM 3.1 Type B	○	Windows® 11 Preliminary

©Macnica,Inc.

ADLINK PEG GPU 製品 サポート PC ページリンク

DLAP-8100 Series

- AI IPC with 14th/13th/12th Intel® Core™ Processor
- Up to 128GB DDR5 4800MHz (4x SODIMM slots)
- Supports NVIDIA® RTX A6000E 350W GPU with full speed Gen4 x16 signal

GPU Maker	Maker	GPU Series	Model	Card Type	Linux	Microsoft®
NVIDIA®	ADLINK	Quadro® RTX 2000 Ada	NVIDIA RTX 2000 Ada	Dual slot, Half height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 4000 Ada	NVIDIA RTX 4000 SFF Ada	Dual slot, Half height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 4000 Ada	NVIDIA RTX 4000 Ada	Single slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 4500 Ada	NVIDIA RTX 4500 Ada	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 5000 Ada	NVIDIA RTX 5000 Ada	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 6000 Ada	NVIDIA RTX 6000 Ada	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 4000 Blackwell *New*	NVIDIA RTX PRO 4000 Blackwell	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 4500 Blackwell *New*	NVIDIA RTX PRO 4500 Blackwell	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 5000 Blackwell *New*	NVIDIA RTX PRO 5000 Blackwell	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 6000 Blackwell *New*	NVIDIA PRO RTX 6000 Blackwell Server Edition	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 6000 Blackwell *New*	NVIDIA PRO RTX 6000 Blackwell Workstation Edition	Dual slot, Extra height	○	Windows® 11
NVIDIA®	ADLINK	Quadro® RTX 6000 Blackwell *New*	NVIDIA PRO RTX 6000 Blackwell Max-Q Workstation Edition	Dual slot, Full height	○	Windows® 11

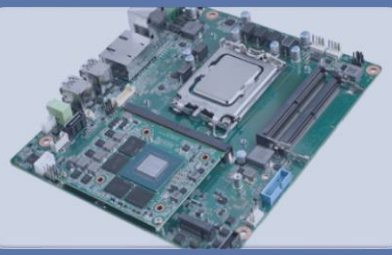
MACNICA

©Macnica,Inc.

Advantech MXM GPU 製品 サポート PC ページリンク

AIR-310

• MXM GPU Edge AI System with Intel ® Core™ 14th gen processors i3/i5/i7/i9 LGA1700



AIMB-288E

• THIN AI Motherboard 12/13/14th Gen Intel® Core™ Processor, MXM GPU module Integration

GPU Maker	Maker	GPU Series	Model	Card Type	Linux	Microsoft®
NVIDIA®	ADVANTECH	Quadro® Embedded A500	SKY-MXM-A500	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® Embedded T1000	SKY-MXM-T1000	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® Embedded A2000	SKY-MXM-A2000	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® Embedded A4500	*New* SKY-MXM-A4500	MXM 3.1 Type B+	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® 2000A	SKY-MXM-2000A	MXM 3.1 Type A	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® 5000	SKY-MXM-5000A	MXM 3.1 TYPE B+	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® 3500	SKY-MXM-3500A	MXM 3.1 TYPE B+	○	Windows® 11
Intel®	ADVANTECH	Intel Arc A370M	EAI-2100	MXM 3.1 Type A	○	Windows® 11

MACNICA

©Macnica,Inc.

Advantech PEG GPU 製品 サポート PC ページリンク

AIR-510

- 4U AI Ready Edge System with Intel® Rapter Lake S Platform and NVIDIA Certified with RTX 6000 Ada

GPU Maker	Maker	GPU Series	Model	Card Type	Linux	Microsoft®
NVIDIA®	ADVANTECH	Quadro® RTX 2000 Ada	NVIDIA RTX 2000 Ada	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 4000 Ada	NVIDIA RTX 4000 Ada	Single slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 4000 Ada	NVIDIA RTX 4000 SFF Ada	Dual slot, Low profile	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 4500 Ada	NVIDIA RTX 4500 Ada	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 5000 Ada	NVIDIA RTX 5000 Ada	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 6000 Ada	NVIDIA RTX 6000 Ada	Dual slot, Full height	○	Windows® 11

©Macnica,Inc.

Advantech PEG GPU 製品 サポート PC ページリンク

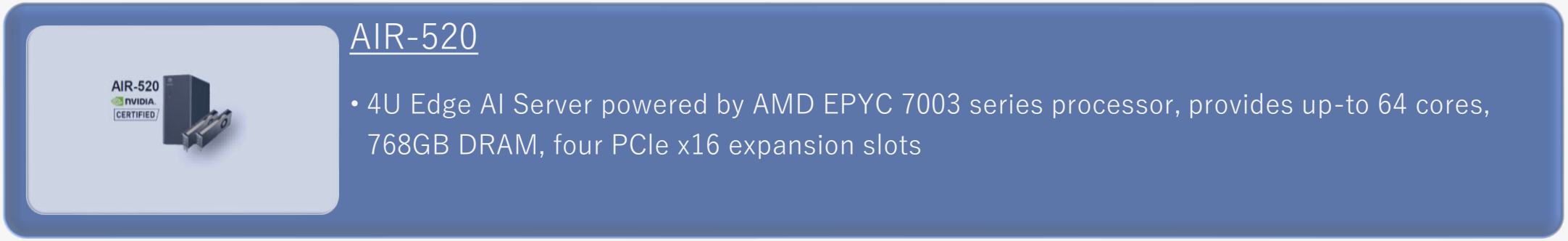
AIR-510

- 4U AI Ready Edge System with Intel® Rapter Lake S Platform and NVIDIA Certified with RTX 6000 Ada

GPU Maker	Maker	GPU Series	Model	Card Type	Linux	Microsoft®
NVIDIA®	ADVANTECH	Quadro® RTX 2000E Ada *New*	NVIDIA RTX 2000E Ada	Single slot, Low profile	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 4000E Ada *New*	NVIDIA RTX 4000E Ada	Single slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 5000E Ada *New*	NVIDIA RTX 5000E Ada	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 6000E Ada *New*	NVIDIA RTX 6000E Ada	Dual slot, Full height	○	Windows® 11

©Macnica,Inc.

Advantech PEG GPU 製品 サポート PC ページリンク



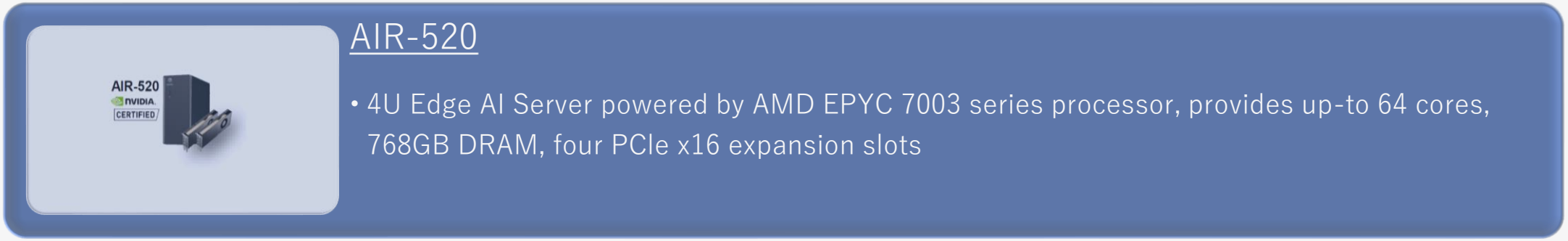
AIR-520

- 4U Edge AI Server powered by AMD EPYC 7003 series processor, provides up-to 64 cores, 768GB DRAM, four PCIe x16 expansion slots

GPU Maker	Maker	GPU Series	Model	Card Type	Linux	Microsoft®
NVIDIA®	ADVANTECH	Quadro® RTX 2000 Blackwell *New*	NVIDIA RTX PRO 2000 Blackwell	Dual slot, Low profile	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 4000 Blackwell *New*	NVIDIA RTX PRO 4000 Blackwell	Dual slot, Low profile	○	Windows® 11 Preliminary
NVIDIA®	ADVANTECH	Quadro® RTX 4000 Blackwell *New*	NVIDIA RTX PRO 4000 SFF Blackwell	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 4500 Blackwell *New*	NVIDIA RTX PRO 4500 Blackwell	Dual slot, Full height	○	Windows® 11 Preliminary
NVIDIA®	ADVANTECH	Quadro® RTX 5000 Blackwell *New*	NVIDIA RTX PRO 5000 Blackwell	Dual slot, Full height	○	Windows® 11 Preliminary
NVIDIA®	ADVANTECH	Quadro® RTX 5000 Blackwell *New*	NVIDIA RTX PRO 5000 72GB Blackwell	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 6000 Blackwell *New*	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation	Dual slot, Full height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 6000 Blackwell *New*	NVIDIA RTX PRO 6000 Blackwell Workstation Edition	Dual slot, Extra height	○	Windows® 11
NVIDIA®	ADVANTECH	Quadro® RTX 6000 Blackwell *New*	NVIDIA RTX PRO 6000 Blackwell Server Edition	Dual slot, Full height	○	Windows® 11

©Macnica,Inc.

Advantech PEG GPU 製品 サポート PC ページリンク



AIR-520

- 4U Edge AI Server powered by AMD EPYC 7003 series processor, provides up-to 64 cores, 768GB DRAM, four PCIe x16 expansion slots

GPU Maker	Maker	GPU Series		Model	Card Type	Linux	Microsoft®
NVIDIA® Tesla®	ADVANTECH	NVIDIA® Tesla® H200 NVL	*New*	NVIDIA® Tesla® H200 NVL	Dual slot, Full height	○	Windows® 11
NVIDIA® Tesla®	ADVANTECH	NVIDIA® Tesla® H800	*New*	NVIDIA H800	Dual slot, Full height	○	Windows® 11
NVIDIA® Tesla®	ADVANTECH	NVIDIA® Tesla® A40	*New*	NVIDIA A40	Dual slot, Full height	○	Windows® 11
NVIDIA® Tesla®	ADVANTECH	NVIDIA® Tesla® A100 80GB	*New*	NVIDIA A100 80GB	Dual slot, Full height	○	Windows® 11
NVIDIA® Tesla®	ADVANTECH	NVIDIA® Tesla® L4	*New*	NVIDIA L4	Single slot, Low profile	○	Windows® 11
NVIDIA® Tesla®	ADVANTECH	NVIDIA® Tesla® L40S	*New*	NVIDIA L40S	Dual slot, Full height	○	Windows® 11

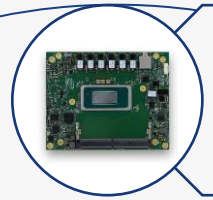
©Macnica,Inc.

組み込みモジュール規格

COM-HPC®

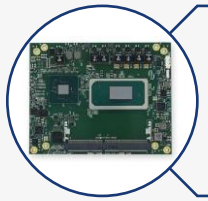
1. SECO
2. ADLINK
3. ADVANTECH

SECO COM-HPC® Client Module



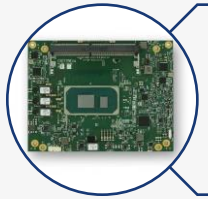
SOM-COM-HPC-A-MTL

- COM-HPC® Size A Client Module
- Intel® Core™ Ultra Processors Family (codename: Meteor Lake -H and -U)



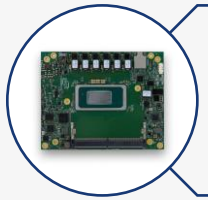
SOM-COM-HPC-A-TGL-H

- COM-HPC® Client module Size A with 11th Gen Intel® Xeon® W-11000E Series, Core™ vPro® and Celeron® (formerly Tiger Lake-H) Processors for FuSa applications



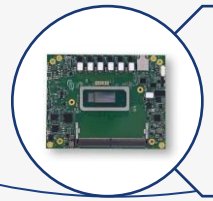
SOM-COM-HPC-A-TGL-UP3

- COM-HPC® Client module Size A with 11th Gen Intel® Core™ and Celeron® (formerly Tiger Lake-UP3) Processors



SOM-COM-HPC-A-ARL **New**

- COM-HPC® Size A Client Module with Intel® Core™ Ultra Processors (series 2) Family (Codename: Arrow Lake -H and -U).



SOM-COM-HPC-A-RPL **New**

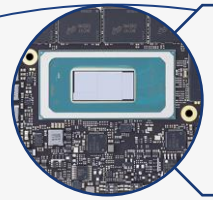
- COM-HPC® Client module Size A, with 13th Gen Intel® Core™ processors (Codename: Raptor Lake – H/P/U series)

Return

All Lineup

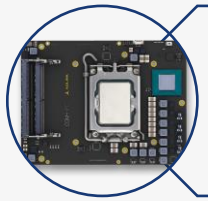
©Macnica,Inc.

ADLINK COM-HPC® Sever/Client/Mini Module



COM-HPC-mMTL

- Mini Type COM-HPC Module with Intel® Core™ Ultra Processor (Meteor Lake)



COM-HPC-cRLS

- COM-HPC Client Type Size C Module based on Intel® Raptor Lake-S platform

COM-HPC-sIDH

- COM-HPC Server Type Size D Module with Intel® Xeon® D-2700 Processor (formerly codename: Ice Lake-D)

COM-HPC-ALT

- COM-HPC Server Type Size E Module with Ampere® Altra® SoC
- Up to 80 Arm-based cores at 150W TDP
- Up to 768GB DDR4 with 6 individual memory channels

COM-HPC-cBLS *New*

- Client Type COM-HPC Size C Module with Intel Core-S Processor (Bartlett Lake-S)

Return

Server Lineup
Client Lineup

©Macnica,Inc.

IEI COM-HPC® Sever/Client Module

HUK-CR680

- Supports LGA1700 Intel® 12th/13th Desktop CPU (TDP up to 65W)
- Dual-channel DDR5 up to 4400MHz
- Support DisplayPort 1.2, HDMI™ & eDP

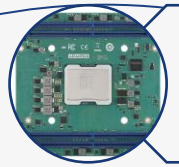
Return

Server Lineup
Client Lineup

©Macnica,Inc.

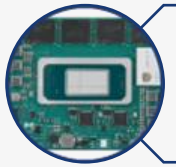
ADVANTECH COM-HPC® Server/Client Module

ADVANTECH



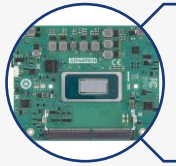
SOM-D580

•Intel® Xeon® D-2700 Processor (Ice Lake-D HCC) COM-HPC® Server Size D Module



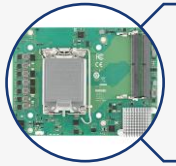
SOM-M250 *New*

•Intel® Core™ Ultra Series 3 Processors, COM-HPC Size Mini Module



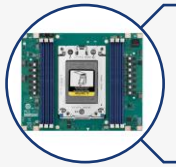
SOM-A350 *New*

•14th Gen Intel® Core™ processors (Meteor Lake) CPU, COM-HPC Client Size A Module



SOM-C350/R

•13th/12th Gen Intel® Core™ processors (Raptor Lake-S/ Alder Lake-S) desktop socket type CPU COM-HPC Client Size C Module



SOM-E781

•AMD EPYC™ 8004 COM-HPC® Server Size E module with proprietary pinout

SOM-E780

•AMD EPYC™ 7003 COM-HPC® Server Size E module with proprietary pinout

Return

All Lineup

MACNICA

©Macnica,Inc.

COM Express®

1. SECO
2. ADLINK
3. ADVANTECH

SECO COM Express® Type-6/7

SOM-COMe-CT6-EHL

- COM Express® 3.1 Type 6 Compact Computer on Module (CoM)
- Intel® Atom® x6000E Series, Intel® Pentium® and Celeron® N and J Series Processors (formerly Elkhart Lake)

SOM-COMe-CT6-ASL

- COM Express® 3.1 Type 6 Compact Module
- Intel Atom® Processors x7000E Series (Codename: Amston Lake and Alder Lake N)

SOM-COMe-CT6-TGL-U

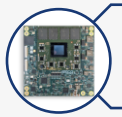
- COM Express® Rel. 3.0 Compact Type 6
- Gen 11 Intel® Core™ (formerly Tiger Lake UP3) Processors

SOM-COMe-CT6-R8000 New

- COM Express® 3.1 Type 6 Compact Module with AMD Ryzen™ Embedded 8000 Series

SOM-COMe-CT6-TWL New

- COM Express Rel. 3.1 Type 6 Module with Intel® Intel® Core™ i3 processor,
- Intel® Processors N Series (Codename: Twin Lake).



SOM-COMe-CT6-Dragonwing-IQ-X New

- COM Express 3.1 Type 6 Compact modules with Qualcomm Dragonwing IQ-X Series of processors

SOM-COMe-BT6-MTL

- COM Express® 3.1 Type 6 Basic Module with Intel® Core™ Ultra Processors Family (Codename: Meteor Lake -H and -U)

SOM-COMe-BT6-ARL New

- COM Express Rel. 3.1 Type 6 Basic Module with Intel® Core™ Ultra Processors (series 2) Family (Codename: Arrow Lake -H and -U).

SOM-COMe-BT6-RPL-P New

- COM Express® 3.1 Type 6 Basic Module
- 13th Gen Intel® Processors (formerly Raptor Lake-P)

Return

All Lineup

©Macnica,Inc.

ADLINK COM Express® Type-6/10

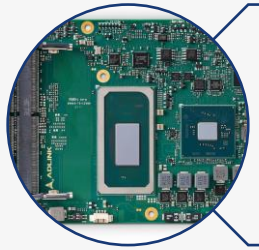
Express-RLP

- COM Express® Rel. 3.1 Basic Type 6
- Intel® 13th Gen, Core™(codenamed Raptor Lake-P) Processors

Express-ADP

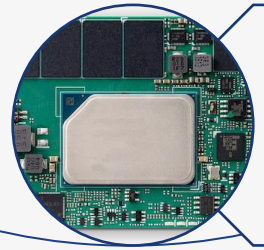
- COM Express® Rel. 3.1 Basic Type 6
- Intel® 12th Gen Core™ (formerly Alder Lake-P) Processors

ADLINK



Express-TL

- COM Express® Rel.3.0 Basic Type 6
- Intel® 11th Gen Intel® Core™, Intel® Xeon® and Intel® Celeron® (formerly Tiger Lake-H) Processors



nanoX-EL

- COM Express® Mini Size Type 10 Module
- Intel® Atom® x6000 Processors (formerly Elkhart Lake)

Return

All Lineup

MACNICA

©Macnica,Inc.

ADLINK COM Express® Type-6 Compact

cExpress-MTL

- COM Express R3.1 Type 6 Compact size Module based on Intel® Core™ Ultra Processors

cExpress-ALN

- COM Express R3.1 Type 6 Compact size Module with 7th Gen Intel® Atom® & N series Processors

cExpress-ASL

- 7th Gen Intel® Atom® processor, up to 3.6GHz (formerly Amston Lake)
- Up to 16GB LPDDR5 (4800MT/s, in-band ECC)

cExpress-TL

- COM Express® Rel. 3.0 Compact Type 6
- Intel® 11th Gen Core™ and Celeron® (formerly Tiger Lake-UP3) Processors

cExpress-EL

- COM Express® Rel. 3.0 Compact Type 6 module
- Intel® Next Generation Intel Atom® (formerly Elkhart Lake) Processor SoC

cExpress-AR

- COM Express Compact Size Type 6 Module with AMD Ryzen™ Embedded V2000 APU (Zen 2 architecture)

cExpress-R8 *New*

Preliminary

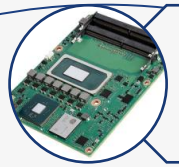
- COM Express R3.1 Type 6 Compact size Module with AMD Ryzen™ Embedded 8000 Series Processors

Return

All Lineup

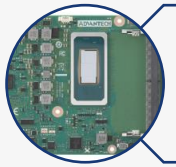
©Macnica,Inc.

ADVANTECH COM Express® Type-6/10



SOM-5883

•Intel® 11th Gen Core Processors (Code Name: Tiger Lake-H) COM Express Basic Type6 Module



SOM-5885

•Intel® 14th Gen Core Processors (Code Name: Meteor Lake-U/H)

•COM Express Basic Type6 Module

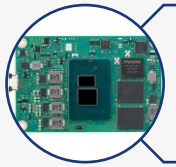
SOM-5886 ***New***

Preliminary

•Intel® Core Ultra Processors (Series 3) COM Express Basic Type6 Module

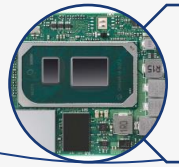
SOM-7532

•Intel® Pentium®/Celeron® and Atom® x6000 Series (Elkhart Lake) COM Express® Mini Type 10 Module



SOM-7533

•Intel® Core-i®/Pentium®/Celeron® and Atom® x7000 Series Processors (Alder Lake-N) COM Express® Mini Type 10 Module



SOM-7583

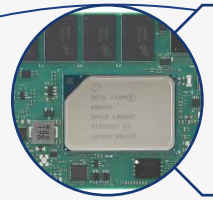
•Intel® 11th Gen Core Processors COM Express Mini Module Type10

Return

All Lineup

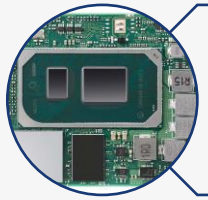
©Macnica,Inc.

ADVANTECH COM Express® Type-6 Compact



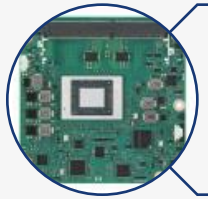
SOM-6832

- Intel® Pentium®/Celeron® and Atom® x6000 Series (Elkhart Lake) COM Express® Compact Type 6 Module



SOM-6833

- Intel® Core-i®/Pentium®/Celeron® and Atom® x7000 Series Processors (Alder Lake-N/Amston Lake) COM Express® Compact Type 6 Module

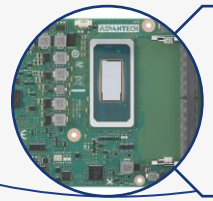


SOM-6873

- AMD Ryzen Embedded 8000 COM Express® Compact Type 6 Module

SOM-6883

- 11th Gen. Intel® Core™ Processor U-Series(Code Name: Tiger Lake-UP3) COM Express® Compact Type6



SOM-6884

- 13th Gen. Intel® Core™ Processor (Code Name: Raptor Lake-P) COM Express® Compact Type6

Type 6 - High Computing Performance all Lineup

Type 6 - Entry Computing Performance all Lineup

Return

©Macnica,Inc.

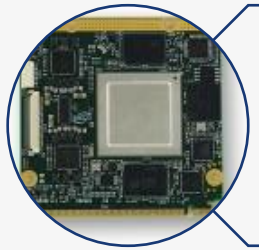
Qseven®

1. SECO
2. IEI
3. ADLINK

SECO Qseven® NXP

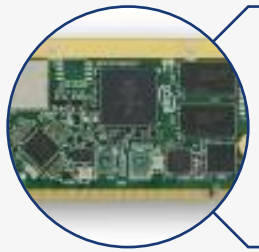
SOM-Q7-MX8

•Qseven® Rel. 2.1 module with NXP® i.MX 8M Applications Processors



SOM-Q7-MX8M

•Qseven® Rel. 2.1 module with NXP® i.MX 8 Applications Processors



SOM-uQ7-MX8M-Mini-Nano

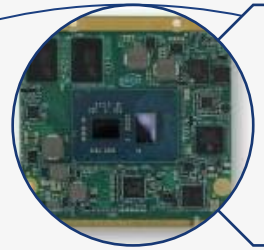
• μQseven® module with NXP® i.MX 8M Mini & NXP® i.MX 8M Nano Processors

Return

All Lineup

©Macnica,Inc.

SECO Qseven® インテル® x86



SOM-Q7-EHL

- Qseven® Rel. 2.1 compliant module
- Intel® Atom® X6000E Series, Intel® Pentium® and Celeron® N and J Series SoCs (formerly Elkhart Lake)

SOM-Q7-APL

- Qseven® Rel. 2.1 module with Intel® Atom® X Series, Intel® Celeron® J / N Series and Intel® Pentium® N Series (formerly Apollo Lake) Processors

Return

All Lineup

©Macnica,Inc.

IEI Qseven® インテル® x86

iQ7-EHL

- Intel® Elkhart Lake Celeron® J6412 on-board SoC
- Support dual independent displays via HDMI and LVDS (or eDP)
- Support two USB 3.2 Gen2 and six USB 2.0

Return

Server Lineup
Client Lineup

©Macnica,Inc.

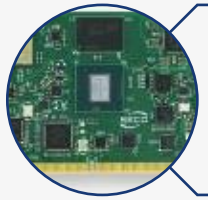
SMARC®

1. SECO
2. ADLINK
3. ADVANTECH

SECO SMARC® NXP i.MX8/9, MediaTek Genio, Qualcomm QCS

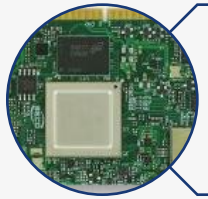
SOM-SMARC-MX8M

- SMARC® Rel. 2.1.1 module
- NXP® i.MX 8M Applications Processors



SOM-SMARC-MX8M-Plus

- SMARC® Rel. 2.1.1 module
- NXP® i.MX 8M Plus Applications Processors

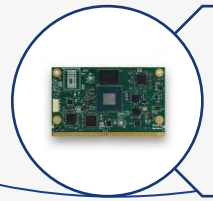


SOM-SMARC-MX8X

- SMARC® Rel. 2.1.1 module
- NXP® i.MX 8X Applications Processors

SOM-SMARC-MX93

- SMARC® Rel. 2.1.1 Computer on Module (CoM)
- NXP i.MX 9 Applications Processors



SOM-SMARC-MX95

- SMARC® Rel. 2.1.1 module
- NXP i.MX 95 Applications Processors

Return

All Lineup

©Macnica,Inc.

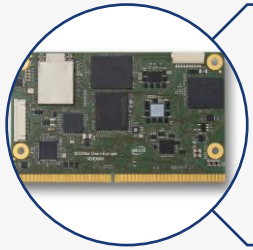
SECO SMARC® NXP i.MX8/9, MediaTek Genio, Qualcomm QCS

SOM-SMARC-Genio510

- SMARC® Rel. 2.1.1 module
- MediaTek Genio 510 Applications Processors

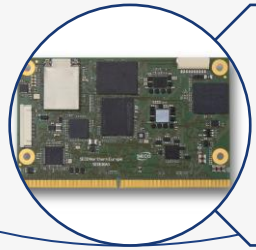
SOM-SMARC-Genio700

- SMARC® Rel. 2.1.1 Computer on Module
- MediaTek Genio 700 Applications Processors



SOM-SMARC-QCS5430

- SMARC® 2.1.1 module with Qualcomm® QCS5430 processor



SOM-SMARC-QCS6490

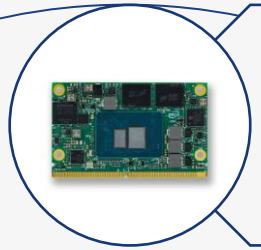
- SMARC® 2.1.1 module powered by Qualcomm® QCS6490 processor

Return

All Lineup

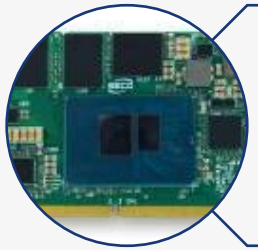
©Macnica,Inc.

SECO SMARC® インテル® x86



SOM-SMARC-ASL

- SMARC® Rel 2.1 compliant module
- Intel Atom® Processors x7000RE(Codename: Amston Lake) Series for the Edge

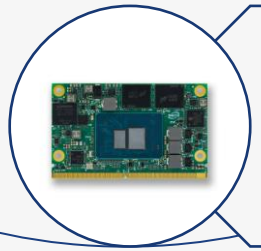


SOM-SMARC-ADL-N

- SMARC® Rel. 2.1 compliant module
- Intel® Atom® processors x7000E Series, Intel® Core™ i3 processor, Intel® Processors N Series (Codename: Alder Lake N)

SOM-SMARC-EHL

- SMARC® Rel. 2.1.1 module
- Intel® Atom® x6000E Series and Intel® Pentium® and Celeron® N and J Series (formerly Elkhart Lake) Processors for FuSa applications



SOM-SMARC-TWL *New*

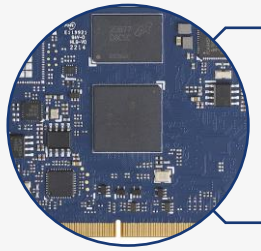
- SMARC® Rel. 2.1 compliant module with Intel® Intel® Core™ i3 processor, Intel® Processors N Series

Return

All Lineup

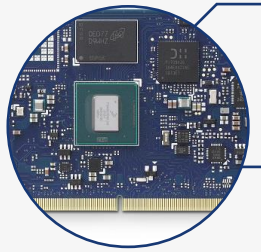
©Macnica,Inc.

ADLINK SMARC® NXP i.MX8/9, MediaTek Genio



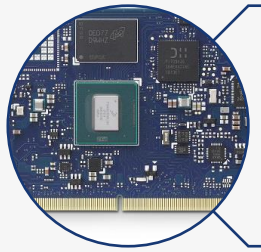
LEC-IMX95

- NXP i.MX 95 with Hexa-core Arm Cortex-A55
- 1x Arm Cortex-M7 and 1x Arm Cortex-M33



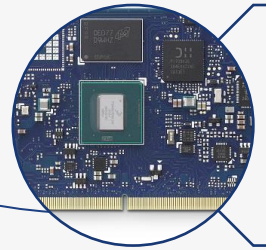
LEC-IMX8MM

- SMARC® revision 2.1 compliant module
- NXP® i.MX 8M Mini SoC



LEC-IMX8MP

- SMARC® revision 2.1 compliant
- NXP® i.MX 8M Plus



LEC-IMX8M

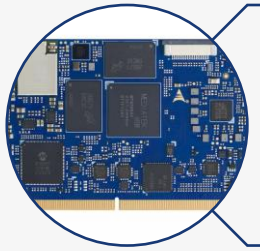
- SMARC® revision 2.1 compliant
- NXP® i.MX 8M

Return

All Lineup

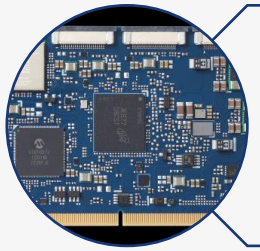
©Macnica,Inc.

ADLINK SMARC® NXP i.MX8/9, MediaTek Genio



LEC-MTK-I1200

- SMARC specification 2.1.1 compliant
- MediaTek® Genio 1200 Platform



LEC-RB5N

- SMARC specification 2.1.1 compliant
- Qualcomm® QRB5165 octa-core SoC

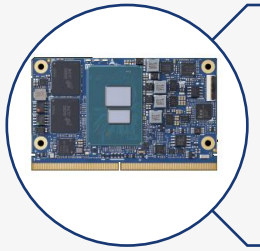
ADLINK

Return

All Lineup

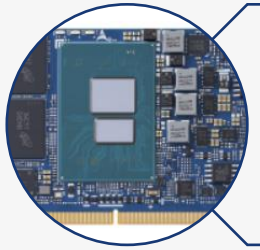
©Macnica,Inc.

ADLINK SMARC® インテル® x86



LEC-ALN

- SMARC® 2.1 Short Size Module
- Intel® Core™ i3 Processors, Intel® Processors N Series and Intel® 7th Gen Atom® x7000E Processors



LEC-ASL

- SMARC revision 2.1.1 compliant
- Intel® Atom® x7000 series (Amston Lake) Processors

LEC-AL

- SMARC® revision 2.0 compliant
- Intel® Atom® E3900 Series, Pentium™ N4200 or Celeron™ N3350 Processor (formerly Apollo Lake)

Return

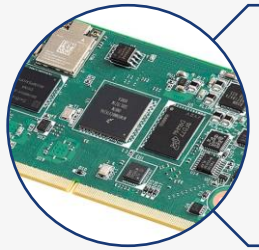
All Lineup

©Macnica,Inc.

ADVANTECH SMARC® NXP i.MX8/9

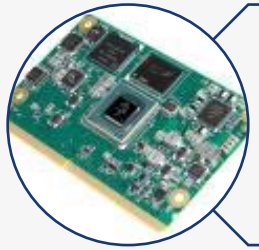
ROM-5722

- NXP i.MX8M Plus Cortex®-A53 SMARC 2.0/2.1 Computer-on-Module
- NXP Arm® Cortex®-A53 i.MX8M Plus Quad/Dual up to 1.8 GHz



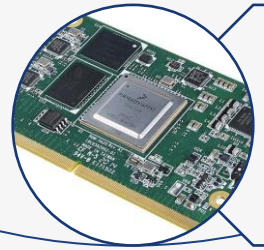
ROM-5721

- NXP i.MX8M Mini Cortex®-A53 SMARC 2.0/2.1 Computer-on-Module
- NXP i.MX 8M Mini processor with up to 4 Arm Cortex A53 cores



ROM-5720

- NXP i.MX8M Cortex®-A53 SMARC 2.0/2.1 Computer-on-Module
- NXP i.MX 8M processor with dual or quad ARM Cortex A53 cores



ROM-5620

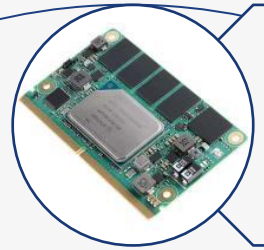
- NXP i.MX 8X processor with 2-4 x Arm Cortex-A35 cores
- Onboard 2GB LPDDR4 memory and 16GB eMMC

Return

All Lineup

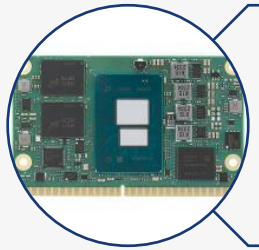
©Macnica,Inc.

ADVANTECH SMARC® インテル® x86



SOM-2532

- Intel® Pentium®/Celeron® and Atom® x6000 Series
- SMARC2.0 & SMARC2.1 Compliance



SOM-2533

- Intel® Core-i®/Pentium®/Celeron® and Atom® x7000 Series
- SMARC2.1.1 Compliance

ADVANTECH

Return

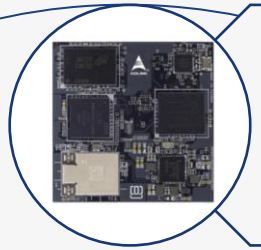
All Lineup

©Macnica,Inc.

OSM
(Open Standard Module™)

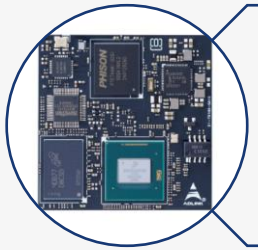
1. ADLINK
2. ADVANTECH

ADLINK OSM(Open Standard Module™)



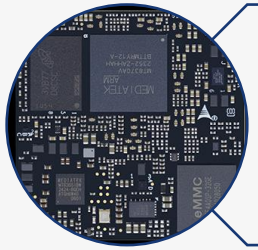
OSM-IMX93

- NXP® i.MX93 series with 2-core Arm Cortex-A55 & M33
- In-SoC Arm Ethos U-65 microNPU
- OSM revision 1.1 compliant
- LVDS, DSI graphic output
- Dual GbE (one TSN capable)



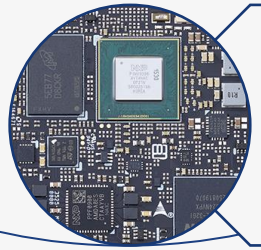
OSM-IMX8MP

- OSM revision 1.1 compliant
- NXP® i.MX8M Plus series with 4-core Arm Cortex-A53 & M7
- n-SoC 2.3 TOPS NPU
- HDMI, LVDS, DSI graphic output interfaces
- Dual GbE (one TSN capable)



OSM-MTK510

- Hexa-core MediaTek Genio 510 SoC with 2x Arm Cortex-A78 and 4x Arm Cortex-A55
- MediaTek DLA+VPU AI engine up to 3.2 TOPS
- OSM revision 1.1 compliant
- Up to 8 LPDDR4L, up to 128GB eMMC
- HDMI/DP, eDP, DSI graphic output



OSM-IMX95 *New*

- NXP i.MX 95 with 6x Arm Cortex-A55
- 1x Arm Cortex-M7 and 1x Arm Cortex-M33
- Integrated eIQ Neutron NPU, ISP and VPU
- Arm Mali G310 3D Graphics
- Up to 8GB LPDDR4X, up to 256GB eMMC

Return

All Lineup

©Macnica,Inc.

ADVANTECH OSM(Open Standard Module™)

ROM-2620

- NXP Arm® Cortex®-A35 i.MX 8ULP Dual up to 1.0 GHz
- 1 x Arm Cortex-M33 core
- Onboard LPDDR4 1GB, 2000MT/s memory

ROM-2820

- NXP i.MX 93 Cortex-A55 Dual-core (up to 1.7GHz)
- 1 x Arm Cortex-M33 core, 1 x Ethos®-U65 microNPU
- 1 x 2GB LPDDR4X up to 3733MT/s

Return

All Lineup

©Macnica,Inc.

ADVANTECH AoM(AI on Module)

AOM-2721

- Qualcomm QCS6490 OSM 1.1 Computer-on-Module
- 1 Kryo Gold plus up to 2.7 GHz, 3 Kryo Gold at 2.4 GHz, 4 Kryo Sliver at 1.9 GHz
- Andreo VPU 633 4K30 encode/Decode, Andreo GPU 643, OpenGL ES3.2/OpenCL 2.0

AOM-3821

- Rockchip RK3588 Arm Quad Cortex-A76 2.4GHz and Quad Cortex-A55 1.8GHz
- Onboard 4/8GB LPDDR4 memory and 32/64GB eMMC
- Supports HDMI, DP, eDP and HDMI IN

ADVANTECH

AOM-3841

- Rockchip RK3576 Arm Quad Cortex-A76 2.4GHz and Quad Cortex-A55 1.8 GHz
- Onboard 4/8 GB LPDDR4 memory and 32/64 GB eMMC
- Supports HDMI, DP and 1 x 4 lane MIPI-DSI

AOM-6731

- Snapdragon X1 Elite 12 Cores, up to 3.4GHz, 16GB LPDDR5x, 128GB UFS and 1x 4-bit SDIO for SD card
- Andreo Snapdragon X GPU supports DX12.2, OpenGL ES 3.2 and OpenCL 3.0
- Adreno VPU 5th Gen., 4K60P Codec with H.264/HEVC/VP9

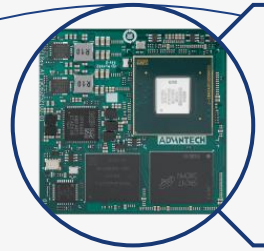
Return

All Lineup

MACNICA

©Macnica,Inc.

ADVANTECH AoM(AI on Module)



AOM-2521 *New*

NXP Arm® Cortex®-A55 i.MX95 Six Cores up to 2.0 GHz

1 x Arm Cortex-M7 core & 1 x Cortex-M33 core

Onboard LPDDR5 8 GB, 6400MT/s memory

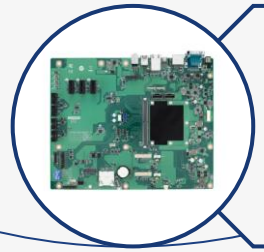
Neural network accelerator built-in

AOM-5721

- SMARC compatible
- Qualcomm QCS6490, 1 Kryo Gold plus up to 2.7 GHz, 3 Kryo Gold at 2.4 GHz, 4 Kryo Sliver at 1.9 GHz
- Andreo VPU 633 4K30 encode/Decode, Andreo GPU 643, OpenGL ES3.2/OpenCL 2.0
- SMARC compatible

AOM-5841

- SMARC compatible
- Rockchip RK3576 Cortex-A72x4 & Cortex-A53x4(AOM Module Nona)
- Onboard LPDDR4 4GB and eMMC16/32GB
- 1 xHDMI2.1 4K@120Hz, 1 x2Lan DPV1.4, 4K@120Hz, 1xMIPI CSI2



AOM-DB6700

- Advantech AOM-Nona/Compact Develop Board
- LVDS/eDP, DP, HDMI
- Support eSPI, CAN-FD, USB3.2 & up to 14 GPIO
- Support 4 types power input. Integrate x86 and ARM power input type

Return

All Lineup

©Macnica,Inc.

Single Board Computer
&
Motherboard

1. SECO
2. IEI
3. ADVANTECH

SECO 3.5”(inch) SBC

SBC-3.5-TGL-UP3

•3.5” SBC with the 11th Gen Intel® Core™ and Intel® Celeron® (formerly Tiger Lake UP3) Processors

SBC-3.5-MX8M-Mini

•3.5” SBC with the NXP® i.MX 8M Mini Processors

SBC-3.5-MX8X

•3.5” SBC with NXP® i.MX 8X Applications Processors

SBC-3.5-MX8

•3.5" SBC with NXP® i.MX8 Applications Processors

SBC-3.5-MX8M

•3.5” SBC with the NXP® i.MX 8M Applications Processors

Return

All Lineup

©Macnica,Inc.

SECO NUC™/Pico-ITX SBC

SBC-eNUC-APL

- embedded NUC™ SBC
- Intel® Atom™ X Series, Intel® Celeron® J / N Series and Intel® Pentium® N Series (formerly Apollo Lake) Processors

SBC-pITX-EHL

- Pico-ITX SBC
- Intel® Atom® X6000E Series, Intel® Pentium® and Celeron® N and J Series (formerly Elkhart Lake) SoCs

SBC-pITX-APL

- Pico-ITX SBC
- Intel® Atom® X Series, Intel® Celeron® J / N Series and Intel® Pentium® N Series (formerly Apollo Lake) Processors

SBC-pITX-TWL

- Pico-ITX SBC with the Intel® Atom™ Processor "Twin Lake" Embedded PC Client N Series for the Edge

New

SBC-pITX-ADL-N

New

- Pico-ITX SBC with the Intel® Atom™ Processor “Alder Lake N” Embedded PC Client N Series for the Edge

SBC-pITX-ASL

New

- Pico-ITX SBC with the Intel® Atom™ Processor “Amston Lake” Industrial RE Series for the Edge

Return

All Lineup

©Macnica,Inc.

IEI 3.5”(inch) SBC

WAFER-ASL

- 3.5” SBC supports Intel® Atom™ x7000 RE series on-board SoC, double display with DP, HDMI, triple 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM and RoHS, -40° C~85° C

WAFER-EHL-x6000

- 3.5” SBC supports Intel® Elkhart Lake Atom™ x6000 series on-board SoC, triple display with DP, HDMI and iDPM slot, dual 2.5 GbE, USB 3.2 Gen 2, M.2, SATA 6Gb/s, COM, iAUDIO, PSE Module, +12V~28V DC input, RoHS, -20° C ~85° C

WAFER-ADL-N

- 3.5 SBC supports Intel® Alder Lake-N/Amston Lake on-board SoC, triple display with DP, HDMI™ and iDPM slot, dual 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM and RoHS, -10° C ~ 60° C

WAFER-EHL2

- 3.5” SBC supports Intel® Celeron® J6412 on-board SoC, triple display with DP, HDMI™ and IDPM slot, dual 2.5 GbE, USB 3.2 Gen 2, M.2, SATA 6Gb/s, COM, iAUDIO and RoHS, -10° C ~60° C

WAFER-IMX8MP

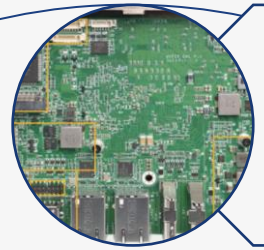
- 3.5” SBC supports NXP i.MX 8M Plus Processors with 4GB LPDDR4 memory & 16 GB eMMC NAND FLASH on board default, dual display and MIPI_CSI, I²C , GPIO, dual GbE Lan, USB 3.2 Gen 1, Full RS-232, 0° C~70° C and RoHS

Return

All Lineup

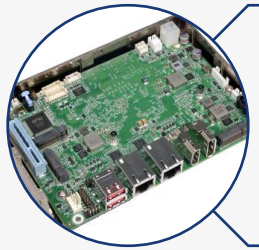
©Macnica,Inc.

IEI 3.5”(inch) SBC



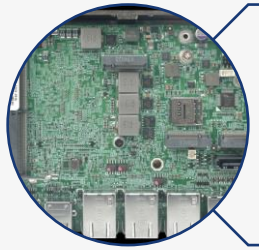
WAFER-EHL

•3.5 " SBC supports Intel® Celeron® J6412 on-board SoC, triple display with DP, HDMI™ and IDPM slot, dual 2.5 GbE, USB 3.2 Gen 2, M.2, SATA 6Gb/s, COM, iAUDIO and RoHS, -10° C ~60° C



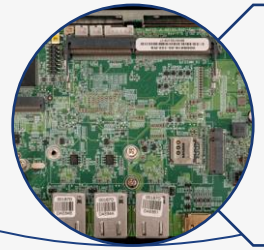
WAFER-ADL-P

•3.5 SBC supports Intel® Alder Lake-P/Raptor Lake-P Core™ i7/i5/i3 and Celeron® processor with 8GB LPDDR4x memory on board default, with DP, HDMI™, dual 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM, PCIe x4 for riser card and RoHS



WAFER-TGL-U

•3.5 " SBC supports Intel® Tiger Lake-UP3 Core I™ Celeron® Proccessor, with HDMI™, DP, iDPM, triple 2.5 GbE Lan port, USB 3.2, M.2, SATA 6Gb/s, COM, Audio and RoHS, -10° C ~60° C



WAFER-JL

•3.5 " SBC with Intel® 10nm Jasper Lake Celeron® N5105 Processor with Dual Displays, DDR4, Triple Intel® 2.5 GbE, USB3.2, M.2, SATA, COM, SoC, RoHS

Return

All Lineup

©Macnica,Inc.

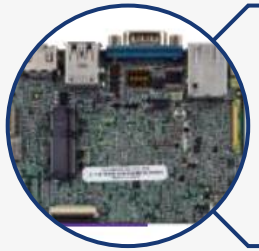
IEI EPIC / Pico-ITX SBC

NANO-EHL

- EPIC SBC supports Intel® Celeron® on-board SoC, with 8GB LPDDR4x memory on board default, with DP, HDMI, iDPM, M.2 A key, M.2 B key, USB 3.1, SATA 6Gb/s, COM, iAUDIO, PCIe x4 (x2 signal) for riser card and RoHS

NANO-ADL-P

- EPIC SBC supports Intel® Alder Lake-P Core™ i7/i5/i3 and Celeron® processor with 8GB LPDDR4x memory on board default, with Dual HDMI, DP, IDPM, M.2 A key, M.2 B key, USB 3.2, SATA 6Gb/s, COM, IAUDIO, PCIe x4 for riser card and RoHS



Hyper-EHL

- Pico-ITX SBC supports Intel® Celeron J6412/N6210 on-board SoC, with 4GB LPDDR4x memory on board default, with HDMI, iDPM, M.2 M key, USB 3.2, iSATA 6GB/s, COM, PCIe x4 for riser card and RoHS

Hyper-ASL

New

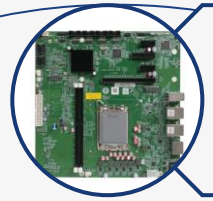
- PICO-ITX SBC with Intel® Alder Lake-N/Amston Lake on-board SoC, with 8GB LPDDR5 memory on board default, with HDMI, LVDS, M.2 M key, M.2 A key, USB 3.2, iSATA 6GB/s, COM, RoHS

Return

All Lineup

©Macnica,Inc.

IEI Micro-ATX Motherboard



IMB-ADL-H610

- micro ATX motherboard supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, Triple independent displays, dual LAN, USB 3.2, SATA 6Gb/s and RoHS

IMB-ADL-Q670

- micro-ATX motherboard supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

IMB-MTL/IMB-ARL-U/H *New*

- micro-ATX motherboard supports 14th Gen. Intel® mobile Meteor Lake-H/15th Gen. Intel® mobile Arrow Lake-U/H on-board processor, DDR5, 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

IMB-MTL *New*

- micro-ATX motherboard supports 14th Gen. Intel® mobile Meteor Lake-H on-board processor, DDR5, 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

IMB-V3000 *New*

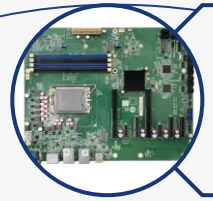
- micro-ATX motherboard supports AMD V3000 series processor, DDR5, dual 10GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

Return

All Lineup

©Macnica,Inc.

IEI ATX Motherboard



IMBA-R680

- ATX motherboard supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR5, Triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, and RoHS

IMBA-ADL-Q670

- ATX motherboard supports LGA1700 Intel® 12th/13th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, Triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, iAUDIO and RoHS

IMBA-ADL-H610

- ATX motherboard supports LGA1700 Intel® 12th/13th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, Triple independent displays, 2.5GbE LAN, USB 3.2, SATA 6Gb/s and RoHS

IMBA-ARL-W880 *New*

- ATX motherboard supports high-performance Intel® Core™ Ultra Processors (Series 2) processor, DDR5, Quadruple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

IMBAX-SP6 *New*

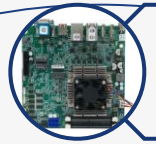
- Server grade ATX motherboard, supports AMD SP6 Siena 8-64 cores, 70W-225W TDP ,DDR5, 4 x 2.5GbE LAN, 4 x M.2 slot, RoHS

Return

All Lineup

©Macnica,Inc.

IEI Mini/Extended ITX SBC



KINO-ADL-P

• Mini-ITX SBC with Intel® Alder Lake-P/Raptor Lake-P SoC Processor, DDR4 SO-DIMM, 12~28V DC input, Triple Display, Triple Intel® 2.5GbE, USB 3.2, SATA 6Gb/s, RoHS

KINO-ADLPS

• Mini-ITX SBC support Intel® Alder Lake-PS Core™ i7/i5/i3 and Celeron® processor, DDR4 SO-DIMM, triple display with DP, HDMI™ and iDPM slots, SATA, Dual Intel 2.5GbE, USB3.2, M.2, RoHS

KINO-ADL-H610

• mini-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, Triple independent displays, dual 2.5GbE LAN, USB 3.2, SATA 6Gb/s and RoHS

KINO-AM5

• Mini-ITX SBC with AMD Ryzen™ 7000 & 8000G & 9000 Series Desktop Processors, DDR5 SO-DIMM, Triple Display, Dual Intel 2.5GbE , USB3.2, M.2, RoHS

KINO-ADL-H611 *New*

• Mini-ITX SBC with AMD Ryzen™ 7000 & 8000G & 9000 Series Desktop Processors, DDR5 SO-DIMM, Triple Display, Dual Intel 2.5GbE , USB3.2, M.2, RoHS

KINO-MPHX *New*

• Mini-ITX SBC with AMD Ryzen™ 7000 & 8000G & 9000 Series Desktop Processors, DDR5 SO-DIMM, Triple Display, Dual Intel 2.5GbE , USB3.2, M.2, RoHS

KALI-ADL-Q670 *New*

• Extended-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR5, Dual displays, dual 2.5GbE LAN, USB 3.2, SATA 6Gb/s and RoH

Return

All Lineup

©Macnica,Inc.

IEI ATX/micro-ATX Motherboard - AMD

IMB-AM5

•micro-ATX motherboard supports AMD 7000 & 8000G PHX1 series processor, DDR5, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

IMB-V3000 *New*

•micro-ATX motherboard supports AMD V3000 series processor, DDR5, dual 10GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

IMBA-AM5

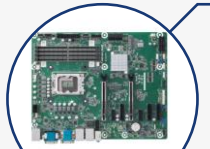
•ATX motherboard supports AMD 7000&8000G PHX1 series processor, DDR5, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

Return

All Lineup

©Macnica,Inc.

ADLINK ATX Motherboard

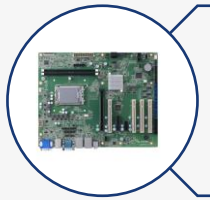


IMB-M47-R680E

- Intel® 12/13/14th Core™ Processors with R680E chipset
- 4x 288-pin Long-DIMM DDR5 up to 4400MHz, maximum 128GB (32GB per DIMM)

IMB-M47

- Intel® 14/13/12th Gen Core™ Processors with Q670 chipset
- 4x 288-pin Long-DIMM DDR5 4800 MHz , up to 128GB (32GB per DIMM)



IMB-M47H

- Supports 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 CPU
- Intel® H610E Chipset
- Dual-channel DDR5 4800MHz memory up to 64GB

IMB-C47H

- 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 processors and H610 chipset
- 2x DDR4 3200 MHz memory up to 64GB

IMB-C47

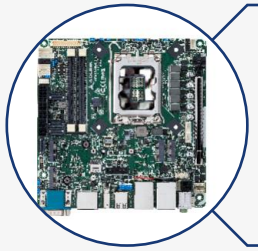
- 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 processors and Q670 chipset
- 4x DDR4 3200 MHz memory up to 128 GB
- Four independent display: DVI-D, HDMI, VGA, eDP

Return

All Lineup

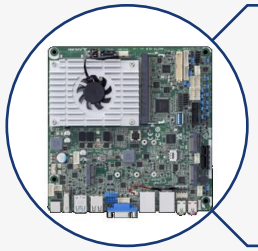
©Macnica,Inc.

ADLINK Mini-ITX Motherboard



AmITX-RL-I

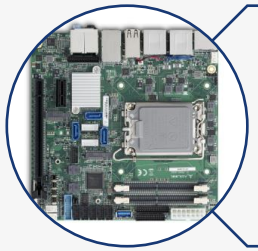
- 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 processors and Q670 chipset, up to 65W
- Dual-channel DDR5 4800 MHz memory up to 64 GB
- Quad. independent display: HDMI 2.0b, HDMI 1.4b, DP 1.4a, LVDS or eDP



AmITX-ALN

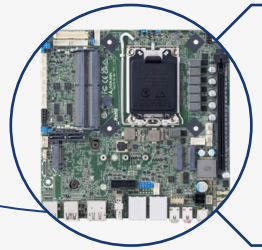
- Intel Alder Lake N SoC processors, N97
- Single channel DDR4 3200 MHz memory up to 32 GB
- Triple independent display: HDMI 2.0b, DP 1.4a (from Type C), VGA, LVDS or eDP

ADLINK



AmITX-AD-G *New*

- 12th/13th/14th Gen Intel® Core™ i7/i5/i3, Intel® Pentium® and Celeron® Desktop Processor with Intel® Q670E/H610E Chipset
- Up to 32GB dual channel DDR4 at 3200MHz



AmITX-RL-WV *New*

- Intel® Core™ Processor Series 2 and 14/13/12th Gen Core™ i9/i7/i5/i3 Processors and H610 chipset, up to 65W
- 2x DDR5 4800/DDR4 3200 MHz SO-DIMM memory, up to 64

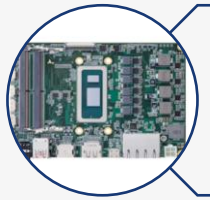
MACNICA

©Macnica,Inc.

Return

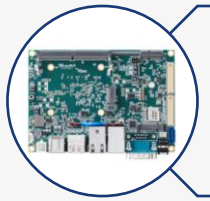
All Lineup

ADLINK 3.5” SBC



SBC35-RPL

- 13th Gen Intel® Core™ i7/i5/i3 processor
- Dual-channel DDR5 4800MHz memory up to 64GB
- Four independent display: eDP/LVDS (default eDP) HDMI, DP, USB Type-C

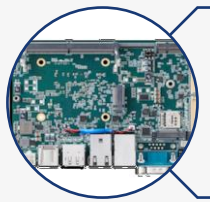


SBC35-ALN

- Intel® N97 Processor
- DDR5 4800MHz memory up to 16GB
- Three independent display: eDP/LVDS HDMI, DP

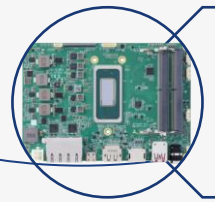
SBC35-MTL

- Intel® Core™ Ultra Processor delivers efficient, high-performance computing.
- Integrated NPU enhances AI processing capabilities for real-time applications.
- Reserved MIPI-CSI Signal Pathway for camera Integration.



SBC35-ASL

- Intel® x7835RE/x7433RE/x7211RE Processor
- DDR5 4800MHz memory up to 16GB
- Three independent display: eDP/LVDS HDMI, DP



SBC35-ARL *New*

- Intel® Core™ Ultra Processor delivers efficient, high-performance computing.
- Integrated NPU enhances AI processing capabilities for real-time applications.
- Reserved MIPI-CSI Signal Pathway for camera Integration.

Return

All Lineup

©Macnica,Inc.

ADVANTECH 3.5”(inch) SBC

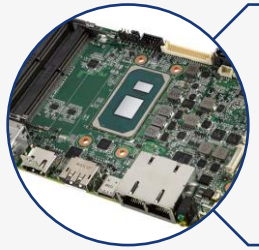
MIO-5152

- Intel® Atom® x6000E series and Intel® Celeron® N and J series 3.5" SBC
- Single Channel DDR4-3200 up to 32G
- Support 3 independent displays via LVDS, DP1.4, and HDMI2.0 up to 4K@60Hz

MIO-5154

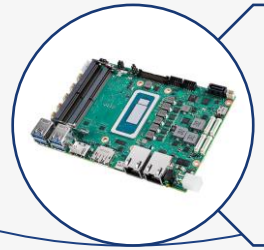
- Intel® Core™ i3-N305 Processor and Intel® Processor N-series 3.5" SBC
- Single Channel DDR5-4800 up to 16GB
- 3 independent display: LVDS + HDMI + DP

ADVANTECH



MIO-5375

- 11th Gen. Intel® Core U-series i7/i5/i3/Celeron 3.5" SBC w/ MIOe
- Dual Channel DDR4-3200 up to 64GB
- 4 simultaneous displays: LVDS/ eDP*, HDMI, DP, USB Type-C



MIO-5377

- 12th Gen. Intel® Core i7/ i5/ i3 P-series 3.5" SBC
- Dual Channel DDR5-4800 up to 64GB
- 4 simultaneous displays: LVDS/HDMI/DP/USB-C Alt. DP

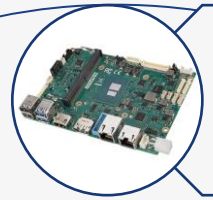
Return

All Lineup

MACNICA

©Macnica,Inc.

ADVANTECH 3.5”(inch) SBC



MIO-5354

- Intel® Atom® x7835RE/x7433RE/x7211RE (Extended Temperature SKU)
- Single Channel DDR5-4800 up to 16GB, support IBECC
- 3 independent display: LVDS + HDMI + DP

MIO-5377R

- 13th Gen. Intel® Core i7/ i5/ i3/ U300E P/U-series 3.5" SBC
- Dual Channel DDR5-4800 up to 64GB, IBECC support by SKU

MIO-5376

- AMD Ryzen Embedded R2000 Processor with Quad Cores, TDP 15W/ 28W
- Dual Channel DDR4-2667 up to 32GB

MIO-5379

- Intel Core Ultra Processors (Code Name: Arrow Lake U/H), up to 14 Cores, TDP 28W/15W
- Dual Channel DDR5-6400 up to 96GB, with IBECC support
- 4 simultaneous displays: eDP + 2x HDMI + USB-C with DP Alt.

AFE-R360

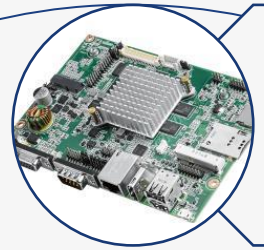
- Intel® Core™ Ultra 7/5 Processors, up to 16 Cores, TDP 28/15W
- Support MIPI-CSI through 120Pin B2B connector
- 3x LAN, 5x USB (incl. 1x USB4), 4x UART, 2x CAN-FD

Return

All Lineup

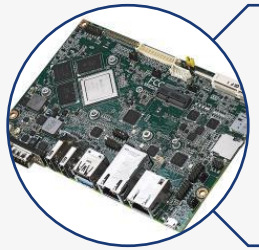
©Macnica,Inc.

ADVANTECH 3.5”(inch) ARM-Based SBC



RSB-4680 *New*

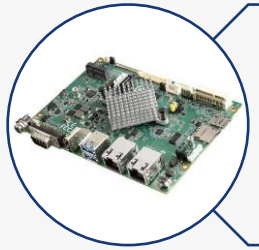
- Rockchip ARM Cortex-A17 RK3288 Quad Core, up to 1.6GHz
- Onboard 2GB DDR3L memory and 8GB eMMC
- HDMI 3840x2160 at 60Hz, VGA 1920x1200 at 60Hz, Dual Channel 18/24/30 bit LVDS



RSB-4710 *New*

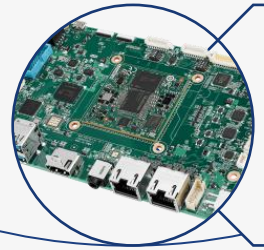
- Rockchip RK3399 ARM dual Cortex-A72 and quad Cortex-A53 1.8 GHz
- Onboard 2/4GB LPDDR4 memory and 16GB eMMC
- Dual HDMI(4K 60fps + 1080P), 1 eDP, 1 dual channel LVDS, 1 MIPI CSI

ADVANTECH



RSB-4810 *New*

- Rockchip RK3568 Arm Quad Cortex-A55, up to 2.0GHz
- Built-in NPU with processing performance of up to 1.0 TOPS
- Onboard 2/4GB LPDDR4 memory and 16/32GB eMMC
- Supports 1 x HDMI 2.0 4K, 1 x LVDS/MIPI-DSI, and 1 x eDP



MIO-5355

- Powerful but Low Power: 8x Kryo 670 CPU from 1.9 up to 2.7 GHz + Adreno GPU 643 + 12.3 TOPs iNPU
- Rugged Design with On-board design: LPDDR5 & UFS
- Various OS Support: Windows on Arm and Ubuntu

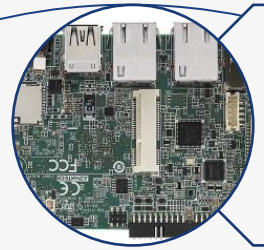
Return

All Lineup

MACNICA

©Macnica,Inc.

ADVANTECH 2.5”(inch) ARM-Based SBC



RSB-3710 ***New***

- Rockchip RK3399 Cortex-A72 2.5" SBC with UIO40-Express
- Rockchip Arm® Cortex®-A72 RK3399 up to 1.8 GHz
- Onboard LPDDR4 2GB
- HDMI 1920x1080 at 60Hz, 1 Dual Channel 24 bit LVDS

ADVANTECH

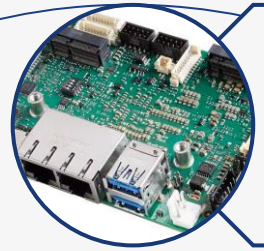
Return

All Lineup

MACNICA

©Macnica,Inc.

ADVANTECH EPIC / Pico-ITX SBC



MIO-2363

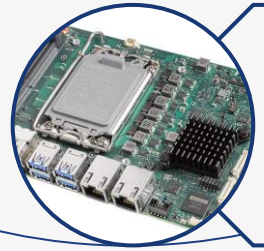
- Intel Atom x6000E Series PICO-ITX SBC
- Support 12-24V wide voltage range -40~85° C operating temperature
- 2x GbE LAN, 2x USB3.2, 2x RS-232/422/485, I2C

MIO-2364

- Intel® Core™ i3-N305 Processor, Intel® Processor N-series, and Intel Atom® Processor x7000E Series Pico-ITX SBC
- Dual independent display: LVDS + HDMI
- GbE (optional PoE/PD, 802.3at), 4 USB, COM, SMBus/I2C

MIO-2375

- 11th Gen. Intel® Core U-series i7/i5/i3/Celeron Pico-ITX SBC
- Dual independent display: eDP/MIPI-DSI, DP up to 8K
- Rich I/O interface with GbE x 2, USB 3.2, COM Port, DIO SMBus, TPM2.0



MIO-4370

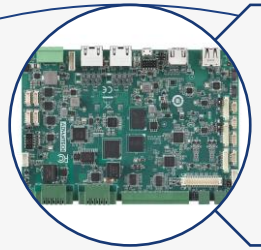
- 14th/13th/12th Gen. Intel® Core™ Processor up to 24 Cores, TDP 35W
- DDR5 4800 up to 32GB + 3 simultaneous display: Dual HDMI+eDP
- Dual High Speed 2.5G Ethernet with TSN, 2x COM, CANbus, TPM

Return

All Lineup

©Macnica,Inc.

ADVANTECH ARM-Based EPIC



AFE-E420

- NXP® i.MX93 with Single/Dual Arm® Cortex-A55
- Single Display: LVDS or HDMI
- Supports Yocto BSP

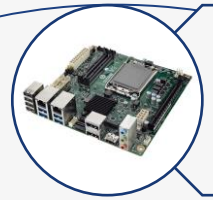
ADVANTECH

Return

All Lineup

©Macnica,Inc.

ADVANTECH Mini-ITX Motherboards



AIMB-208

- Intel® 12th/13th Gen Core™ (Raptor Lake-S) i9/i7/i5/i3 LGA1700
- Mini-ITX with 2 DP/HDMI/LVDS,2 SATA III, 6 COM, 2 LAN, 4 USB3.2 Gen1x1, and 6 USB2.0

AIMB-278

- 12/13/14th Gen Intel® Core™ Processor (Meteor Lake/Raptor Lake/Alder Lake)
- Mini-ITX with Q670E, PCIex16 Gen5, 2.5GbE

AIMB-279

- 12/13/14th Gen Intel® Core™ Processor (Meteor Lake/Raptor Lake/Alder Lake)
- Mini-ITX with Q670E/H610E, PCIex16 Gen4, 2.5GbE, DC in power input

AIMB-288E

- THIN AI Motherboard 12th Gen Intel® Core™ Processor (Alder Lake)
- MXM GPU integration

AIMB-289

- 12/13/14th Gen & and Series 2 Intel® Core™ Processors (LGA1700)
- Dual channel DDR5 5600MHz, max. 96GB with two SODIMMs

Return

All Lineup

©Macnica,Inc.

ADVANTECH Mini-ITX Motherboards

AIMB-218

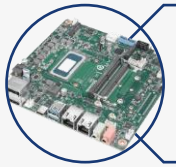
- Intel® Pentium/Celeron Quad Core/Dual Core(Elkhart Lake)
- N6210/N6211/J6412/J6413/J6426/x6413E
- Mini-ITX with DP++/HDMI/eDP/LVDS, 8 USB, 6 COM, and Dual LAN

AIMB-219

- Intel® Core™ i3 and Processor N-series (Alder Lake-N)
- Mini-ITX with DP/HDMI/LVDS(or eDP)/M.2 B & E-key/3 USB 3.2 Gen2x1/5 USB 2.0/1 USB Type-C/6 COM

AIMB-229

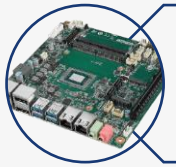
- High perf. Zen CPU 8 cores / 16 threads & 64GB DDR4 SODIMM
- AMD Radeon Graphics core with up to 7 compute units and Quad 4K display support
- Supports 8 x PCIe , 2 x M.2 expansion slots, 6 x COM, 2 x USB 2.0, 6 x USB 3.1 connectors



AIMB-234 *New*

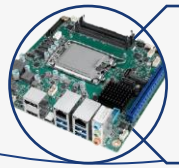
Preliminary

- Intel® Core™ Ultra Processors
- Supports Intel® ARC™ GPU with up to 12Xe, enabling four independent 4K displays
- Supports up to 128GB dual-channel DDR5-7200MT/s using CSODIMM modules



AIMB-2210 *New*

- High-performance Zen 4 up to 8 cores/16 threads with AMD XDNA NPU and 96 GB DDR5 SODIMM
- AMD Radeon RDNA3 Graphics, up to 12 CUs and Quad 4K display support
- Supports PCIe x8 Gen4, 3 x M.2 expansion slots, 6 x COM, 4 x USB 3.2 Gen2x1, 4 x USB 2.0



AIMB-2710 *New*

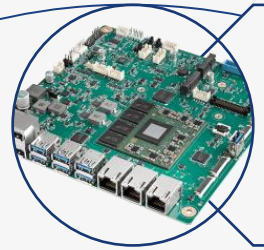
- Intel® Core™ Ultra Series 2 Processors, Up to 24 Core. Support Q870/H810 PCH
- Dual channel DDR5 6400MT/s, max. 96GB with two CSODIMM
- Super Speed I/O: PCIe x16 Gen5 (32GT/s), USB 3.2 Gen2x1 (10Gbps), 2.5 GbE

Return

All Lineup

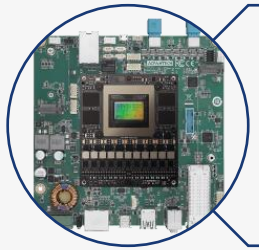
©Macnica,Inc.

ADVANTECH Mini-ITX ARM-Base Motherboards



AIMB-293

- AI-enabled Mini-ITX offer 45 TOPS AI acceleration with Qualcomm 12 Cores processor
- THIN and low profile with essential IO connection
- QFCS slim and quiet thermal solution release power for extreme performance



AIMB-294 *New*

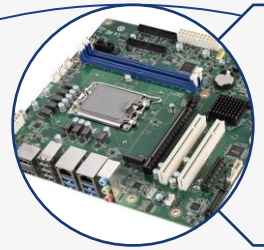
- Mini-ITX Motherboard Powered by NVIDIA® Jetson Thor™ T5000 & T4000
- Accelerated by NVIDIA Jetson T5000™ & T4000™, up to 2560 CUDA Cores, 128GB LPDDR5X
- Up to 2070 TFLOPS FP4 inference performance

Return

All Lineup

©Macnica,Inc.

ADVANTECH Micro-ATX Motherboards



AIMB-508

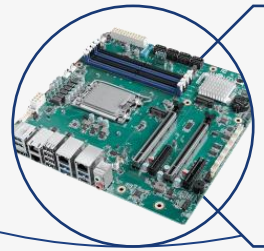
- Intel® 12/13/14th Gen Core™ i9/i7/i5/i3 processors with H610E chipsets
- PCIe x16 slot Gen4, PCIe x4 slot Gen3, PCI slot

AIMB-588

- Intel® 12th Gen Core™ (Alder Lake-S) i9/i7/i5/i3 LGA1700
- MicroATX with2 DP++/HDMI/eDP /8 SATA/6 COM

AIMB-588B1

- Intel® 12/13/14th Gen Core™ i9/i7/i5/i3 processors with Q670E/ R680E/ H610E chipsets



AIMB-589 *New*

Preliminary

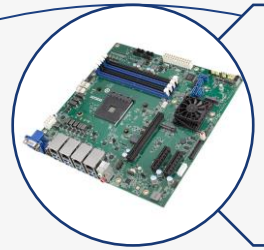
- Intel® 15th Gen Intel® Core™ Ultra Series 2 Processors, max. 24Core. Support W880/Q870 chipsets

Return

All Lineup

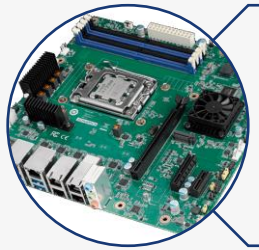
©Macnica,Inc.

ADVANTECH Micro-ATX Motherboards



AIMB-522

- AMD Ryzen™ Embedded 5000 Series processors MicroATX with 1 DP
- HDMI, VGA, 2 GbE LANs, 2 2.5GbE LANs



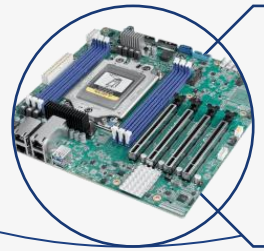
AIMB-523

- AMD Ryzen™ Embedded 7000 Series processors, MicroATX with 6 2.5GbE LAN, DDR5, PCIe x16 Gen5

ADVANTECH

AIMB-592

- AMD EPYC 7003 Series Processor
- MicroATX with 4 PCIe x16 Slots, 2x10GbE LANs, 2x2.5GbE LANs



AIMB-593 *New*

Preliminary

- AMD EPYC 8004 Series Processor
- MicroATX with 5 PCIe x16 Slots, 2x10GbE LANs, 2x1GbE LANs

Return

All Lineup

MACNICA

©Macnica,Inc.

Box PC

1. ADLINK
2. IEI
3. ADVANTECH

ADLINK Box型 PC MVP Series

MVP-3100 *New*

- Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- Operating system options: Microsoft® Windows® or Linux® Ubuntu
- Rugged, fanless design for 24/7 operation

MVP-3120 *New*

- Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- Operating system options: Microsoft® Windows® or Linux® Ubuntu
- Rugged, fanless design for 24/7 operation

MVP-5200 Series *New*

- Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- Up to 196GB DDR5 4800MHz Memory.
- Operating System Options: Microsoft® Windows® or Linux

MVP-6100 Series

- NVIDIA Qualified System
- 9th Gen Intel® Xeon®/Core™ i7/i5/i3 & 8th Gen Celeron® LGA processor
- Dual SODIMMs for up to 32GB DDR4 non-ECC/ ECC memory

MVP-6200 Series *New*

- 14/13/12th generation Intel® Alder Lake-S socket type processor (LGA 1700)
- Scalable with ADLINK AFM (Adaptive Function Module) slot, enabling fast application-specific access

Return

All Lineup

©Macnica,Inc.

ADLINK Box型 PC DLAP Series

DLAP-8000 Series

- Intel® 14th/13th/12th-Gen Core™ 35W/ 65W LGA1700 CPU
- Up to 128GB DDR5 4800MHz (4x SODIMM slots)

DLAP-4000 Series

- Embedded System supporting FHFL dual-width PEG slot with 8th/9th Generation Intel® Core™ i7/i5/i3 in LGA1151 Socket

ADLINK

DLAP-4100 Series

- 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 processors and Q670 chipset, up to 65W
- Dual-channel DDR5 4800 MHz memory up to 64 GB
- Three independent display: HDMI 2.0b, HDMI 1.4b, DP 1.4a

Return

All Lineup

MACNICA

©Macnica,Inc.

ADLINK Box型 PC MXC/MXE Series

MXE-200

- NXP Arm® Cortex®-A53 i.MX8M Plus Quad/Dual up to 1.8 GHz
- Onboard LPDDR4 2 GB / 4 GB, 4000MT/s memory

MXE-230 Series

- Alder Lake N Intel® N97 Processor
- DDR5 4800MHz memory up to 16GB
- Two independent display: 1 HDMI, 1 DisplayPort (up to 4K 60Hz)

MXE-310 Series

- Streamlined size at 180 x 130 x 70 mm
- Seamlessly integrated with the Hailo-8 AI accelerator delivering 26 TOPS
- Dual DDR5 4800MHz memory up to 64GB

MXC-3300

- Intel® Processor N series and Atom x series
- DDR5 4800 MHz memory up to 16G
- Wide-temp operation from -20° C to 60° C (0.6m/s Air Flow)

Return

All Lineup

©Macnica,Inc.

ADLINK Box型 PC Others

RQP-T33/35/37

- Embedded Real-Time Robotic Controller with 11th Gen Intel® Core™ Processor
- x86-64 mainstream architecture for ROS 2 development

RQX-59 Series *New*

- Embedded ROS 2 Robotic Controller Powered by NVIDIA® Jetson AGX Orin ™ Module

AVA-1000

- EN50155 compliant
- NXP i.MX8M Plus with Quad Cortex-A53&Intel Atom® 7th Gen series Amston Lake

AVA-7200

- EN 50155:2021 certified Edge AI platform.
- NVIDIA Ampere GPGPU (A2000/A4500) and Intel® 13th Gen Raptor Lake mobile processor.

EMP-100 Series

- Palm size and slim design (H: 28mm)
- Intel® Celeron® N6210/J6412 processor

EMP-520

- 14th Gen Intel® Core™ Ultra 7/5-Based Advanced Compact Box PC
- 4x independent displays support EDID Emulation

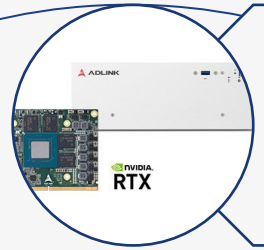
Return to Intel BOX

Return to Arm BOX

All Lineup

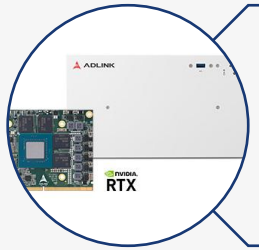
©Macnica,Inc.

ADLINK Medical Box型 PC MLB Series



MLB-3100 with NVIDIA MXM GPU *New*

- ADLINK MXM graphics module support (type A/B, up to 120W TDP based on power supply)
- 12th/13th/14th Gen Intel® Core™ i3/i5/i7/i9, Celeron® processor



MLB-3102 with NVIDIA MXM GPU *New*

- ADLINK MXM graphics module support (type A/B, up to 120W TDP based on power supply)
- 12th/13th/14th Gen Intel® Core™ i3/i5/i7/i9, Celeron® processor

MLB-IGX *New* Preliminary

- GPU: 2,048-core NVIDIA Ampere architecture with 64 Tensor Cores
- CPU: 12-core Arm® Cortex®-A78AE v8.2

Return

All Lineup

©Macnica,Inc.

IEI Box型 PC (Fanless DIN-Rail embedded)

DRPC-124-EHL

- Fanless system Intel® Celeron® J6412 2.0 GHz (up to 2.6 GHz, quad-core, TDP 10W)
- Four GbE LAN, CE/FCC compliant

DRPC-140-EHL

- Fanless system Intel® Celeron® J6412 2.0 GHz (up to 2.6 GHz, quad-core, TDP 10W)
- Four RS232/422/485 Serial port, Two isolation CAN Bus interface, CE/FCC compliant

DRPC-242-ADL-P

- Fanless DIN-Rail Embedded System
- Alder Lake 12th Gen Intel® Core™ Solution (up to 12 cores)

DRPC-240-TGL-U, DRPC-W-TGL

- Fanless DIN-Rail Embedded System with Tiger Lake 11 th Gen Intel® Core™ Solution (up to 4 cores)
- 240 : ethernet 4 port, 2 display out
- W : ethernet 3 port, 3 display out

DRPC-W-EHL, DRPC-W-JL

- EHL : Fanless DIN-Rail Embedded System, Elkhart Lake Intel® Celeron™ Solution (up to 4 cores)
- JL : Fanless DIN-Rail Embedded System, Jasper Lake Intel® Celeron™ Solution (up to 4 cores)

DRPC-W-EHL1

- Fanless DIN-Rail Embedded System, Intel® Elkhart Lake Atom™x6000 Series Solution

Return

All Lineup

©Macnica,Inc.

IEI Box型 PC

TANK-630-EHL

•Intel® Celeron® J6412 2.0 GHz

TANK-8700-MPHX ***New***

•High-Performance AMD Ryzen™ 7000/8000 Series Mobile Processor, Fanless Embedded Computer

FLEX-BX210-Q470

•2U AI Modular PC with 10/11th Generation Intel® Core™/Xeon® processor

TANGO-7010(Core™ i), TANGO-3010(Celeron®)

•Industrial mini-PC with a space-saving chassis

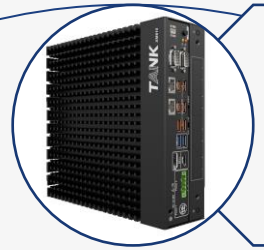
•Intel® Celeron® (formerly Elkhart Lake), Intel® 12th Gen Core™ (formerly Alder Lake-P)

Return

All Lineup

©Macnica,Inc.

IEI Box型 PC



TANK-XM810 TANK-XM811

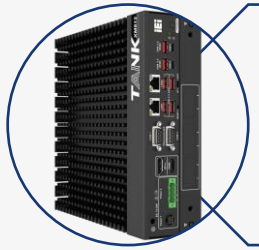
•XM810 : High-Performance 10th/11th Generation Intel® Core™ Processor

•XM811 : High-Performance 12th Generation Intel® Core™ Processor

TANK-XM811AI-RPL

•14th Gen. Intel® Core™ i9 & i7 Processor

•13th Gen. Intel® Core™ i9 & i7 Processor



TANK-XM812 ***New***

•High-Performance AMD Ryzen™ 7000/8000 Series AM5 Processor, Fanless Embedded Computer

TANK-XM813 ***New***

•High-Performance Intel® Core™ Ultra Processors (Series 2) Fanless Embedded Computer

Return

All Lineup

©Macnica,Inc.

IEI Medical Box型 PC

HTB-150-N6210

- Intel® Celeron® Processor N6210 (code name: Elkhart Lake)
- IEC/EN 60601-1, IEC/EN 60601-1-2

HTB-230D-R680E

- AI box PC with 10.1” touch panel and 13th generation Intel® Core™ i9 processor
- IEC/EN 60601-1, IEC/EN 60601-1-2

HTB-300-MTL-H ***New***

- Intel® Core™ Ultra 5-125H/ Ultra 7-155H processor (code name: Meteor Lake-H, TDP 28W)
- IEC/EN 60601-1: 2005+AMD1:2012 (Edition 3.2)
- IEC/EN 60601-1-2 (Edition 4.1)

EndoCap-3588 ***New***

- Quad-core Cortex-A76 and quad-core Cortex-A55, up to 2.4GHz
- 8 inch 10-point multi-touch PCAP touch panel
- Image Capture & Recording System

Return

All Lineup

©Macnica,Inc.

ADVANTECH Box型 PC

ARK-1125C

• Intel® Atom® Processor x7211E DC SoC with Four Serial Ports, HDMI, GbE, GPIO, Remote Switch, USB x4

ARK-1125H

• Intel® Processor N200 QC SoC with Dual HDMI, Dual GbE, Dual Serial Ports, Dual CANBus, Remote Switch, USB x4

ARK-1221L

• Intel Atom x6413E QC and Celeron N6210 DC SoC with GbE, COM, USB, HDMI/DP and DIO ports DIN-Rail Fanless Box PC

ARK-1222 ***New***

• Intel N97 and x7433RE Quad Core SoC with dual HDMI, dual LAN, four COM DIN-Rail Fanless Box PC

ARK-1250L

• Intel® 11th gen Core™ i processor with Triple LAN/ Quadruple COM Din-Rail Fanless Box PC

ARK-1251

• Intel® Core Ultra U series processor with three LAN, four COM, HDMI, DP, GbE, GPIO, Remote Switch, USB x 6

Return

All Lineup

©Macnica,Inc.

ADVANTECH Box型 PC

ARK-2252 ***New***

• Intel® Core Ultra processor with 4x LAN, 6x COM, 2x HDMI, 1x type C, 6x USB

ARK-3533

• Intel® Core™ 12th& 13th& 14th Gen processors i3/i5/i7/i9 LGA1700 Expansion Fanless Box PC

ARK-3534B

• Intel® Core™ 12th& 13th& 14th Gen i3/i5/i7/i9 LGA1700 Expansion Fanless Box PC

ARK-3534C

• Intel® Core™ 12th& 13th& 14th Gen i3/i5/i7/i9 LGA1700 Expansion Fanless Box PC

ARK-3534D

• Intel® Core™ 12th& 13th Gen i3/i5/i7/i9 LGA1700 Expansion Fanless Box PC

ARK-3535 ***New***

• AMD Ryzen™ Embedded 8000 Series Processor Expansion Fanless Box PC

Return

All Lineup

©Macnica,Inc.

Panel PC

1. ADLINK
2. IEI
3. ADVANTECH

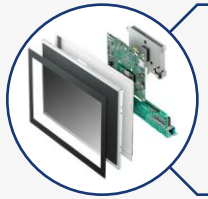
ADLINK Panel PC

STC2-EHL Series

- Intel Atom® x6000E series processors (Elkhart Lake)
- 15.6”/21.5” 16:9 LCD panel with LED backlight with 50,000 service life
- With up to 1920 x 1080 resolution
- 10-point PCAP touchscreen

SP2-EHL Series

- High power efficiency with Intel Atom® x6000E series processors (formerly Elkhart Lake)
- Extensive I/O and function expansion through wire-to-board connectors and custom function modules
- Comprehensive expansion and customization options for fast and easy integration with all form factors, kiosks, and all-in-one panel PC applications



SP2-MTL Series *New*

- Intel® Core™ Ultra H series (Meteor Lake) processor
- 10.1"/15.6"/21.5" Projected capacitive touch screen
- 3x independent display output, LVDS, DP, USB type C

SP2-IMX8 Series

- NXP i.MX8M Plus high-performance processor
- PCAP touch screen (7"/10") with true flat design
- 32GB eMMC and external Micro SD slot for storage expansion
- Expansible I/O design from edge I/O

Titan2

- 11th Gen Intel® Core™ i5/i3 BGA type processor
- 15.6”/21.5”/23.8” FHD with projected capacitive touchscreen
- Full IP69K rating for dust and water ingress

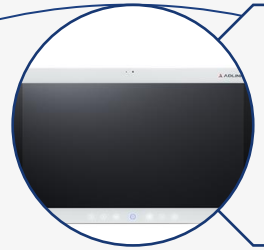
Return to Intel

Return to Arm

All Lineup

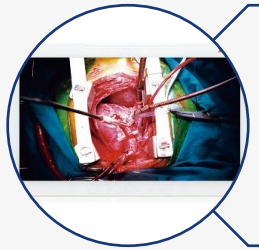
©Macnica,Inc.

ADLINK Medical Panel PC



MLC-S Series **New**

- Powerful 12th/13th Gen Intel® Core™ i3/i5/i7/i9 processor
- 21.5''or 23.8'' full HD display with PCAP multi-touch touchscre



ASM27UHB **New**

- EU MDR-certified and FDA-listed Class I medical monitor
- 27" Ultra HD display with optically bonded and anti-glare c

ADLINK

Return to Intel
Return to Arm
All Lineup

©Macnica,Inc.

IEI Panel PC

[SHIELD-156](#) ***New***

• 15.6” stainless steel waterproof Panel PC with Intel® Amston Lake Processor

[SHIELD-185](#) ***New***

• 18.5” IP69K stainless steel Panel PC with Intel® Amston Lake Processor

[SHIELD-215](#) ***New***

• 21.5” IP69K stainless steel Panel PC with Intel® Amston Lake Processor

[PPC2-CW156A-ADLP](#) ***New***

• 15.6” Fanless Panel PC with Intel® Alder Lake- P/Raptor Lake-P

[PPC2-CW185A-ADLP](#) ***New***

• 18.5” Fanless Panel PC with Intel® Alder Lake- P/Raptor Lake-P

[PPC2-CW215A-ADLP](#) ***New***

• 21.5” Fanless Panel PC with Intel® Alder Lake- P/Raptor Lake-P

[Return](#)

[All Lineup](#)

©Macnica,Inc.

IEI Medical Panel PC

IASO-W07A-N6210

- Intel® Celeron® Processor N6210
- PCAP touch allows multi-touch, multi-layer gloves and water-on-screen operation
- 6 ports USB 3.2 Gen1

IASO-W10B-IMX8M

- NXP i.MX 8M Mini Quad-core Cortex-A53 1.8 GHz
- Programmable LED light bar on both side
- 10-point PCAP touch with optical bonding

IASO-W10B-N6210

- 10.1 " Medical Panel PC with Intel® Celeron® N6210 processor
- Programmable LED light bar on both side
- 10-point PCAP touch with optical bonding

MPOCm-W24

- Mobile Medical Monitor, IP65 front bezel, 2 variable DC outputs
- 10-point PCAP touchscreen, 23.8” FHD medical monitor, Internal Wi-Fi antenna
- Supporting up to 3 pcs 9000mAh hot swappable battery pack
- EN 62368-1 Ed.2 (60601-1 Compatible), EN 55032 + EN 55035 (60601-1-2 Compatible

POCm-W22C-RPL

- Medical Panel PC, 13th Gen Intel® Core™ i5/ i7 processor (Raptor Lake-P)
- Anti-bacteria housing with IP65 front bezel protection
- PCAP touch allows multi-touch, multi-layer gloves and water-on-screen operation

POCm-W24C-RPL

- Medical Panel PC, 13th Gen Intel® Core™ i5/ i7 processor (Raptor Lake-P)
- Anti-bacteria housing with IP65 front bezel protection
- PCAP touch allows multi-touch, multi-layer gloves and water-on-screen operation

Return

All Lineup

©Macnica,Inc.

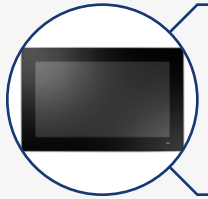
ADVANTECH Panel PC

PPC-315SW ADL_N

- Intel® Processor N97, Quad-Core, 2.0GHz
- 15.6" true-flat TFT LCD with projected capacitive touch control
- Fanless design with low power consumption

PPC-318SW ADL_N

- Intel® Processor N97, Quad-Core, 2.0GHz
- 18.5" true-flat TFT LCD with projected capacitive touch control
- Fanless design with low power consumption

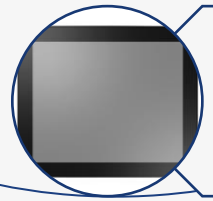


PPC-415W

- 15.6" true-flat Full HD LCD panel with projected capacitive touchscreen, anti-glare coating
- Intel® Core™ i7-1365URE/i5-1345URE/i3-1315URE processor with fanless system design
- Supports PCIe x4 or PCI expansion

PPC-415 EHL

- 15" XGA TFT LCD with resistive (default) or projected capacitive (by request) touchscreen
- Intel® Atom™ x6425E quad-core, 2.0 GHz processor
- Fanless, slim design



PPC-419 EHL

- 19" SXGA TFT LCD with resistive (default)or projected capacitive(by request) touchscreen
- Intel® Atom™ x6425E quad-core, 2.0 GHz processor
- Fanless, slim design

Return

All Lineup

©Macnica,Inc.

SECO Panel PC

Modular Vision 10.1 MX95 *New*

•Entry level 10.1 inch HMI based on NXP i.MX95

Modular Vision 10.1 QCS6490 *New*

•High end 10.1 inch HMI based on Qualcomm® Dragonwing QCS6490

Pi Vision 10.1 CM5 *New*

•10.1 inches HMI based on Raspberry Pi Compute Module 5

Return

All Lineup

©Macnica,Inc.

Touch Monitor

1. ADLINK
2. ADVANTECH

ADLINK Industrial Touch Panel

OM Series

- 7"/12.1"/15"/17"/19" (Fullscreen) LCD panel with LED backlight with up to 50,000 service life
- 10.1"/15.6"/18.5"/21.5"/23.8"/27"/32"/43" (Widescreen) LCD panel with LED backlight with up to 50,000 service life
- 10-point PCAP touchscreen (glove-use available)

IM Series

- 21.5"/23.8"/27.0" 16:9 LCD (robust panel direct from AUO)
- 10-point PCAP touchscreen (glove-use available)
- Anti-fingerprint surface treatment for ease of cleaning and enhanced readability

ADLINK

Return

All Lineup

©Macnica,Inc.

IEI Panel PC

DM2-W101 **New**

•10.1” Latest Generation Industrial Monitor

DM2-UW123 **New**

•12.3” Latest Generation Industrial Monitor

DM2-W121 **New**

•12.1” Latest Generation Industrial Monitor

DM2-W133 **New**

•13.3” Latest Generation Industrial Monitor

DM2-W156 **New**

•15.6” Latest Generation Industrial Monitor

DM2-W185 **New**

•18.5” Latest Generation Industrial Monitor

DM2-W215 **New**

•21.5” Latest Generation Industrial Monitor

DM2-W238 **New**

•23.8” Latest Generation Industrial Monitor

Return

All Lineup

©Macnica,Inc.

ADVANTECH Industrial Touch Panel

IDS-3315

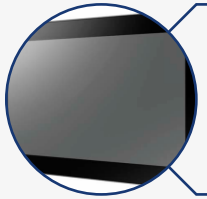
- Front IP65 for waterproof and dustproof
- 15" XGA LCD panel with LED backlight for 20% power saving and environmental protection
- -20 ~ +60 ° C wide range operating temperature

IDS-3319

- Front IP65 for waterproof and dustproof
- 19" SXGA LCD panel with LED backlight
- -20 ~ +60 ° C wide range operation temperature

IDP31-101W

- HDMI Interface, Multi-touch PCT touch overlay
- Thin profile, enclosure – no need for additional enclosures or metalwork
- Wide view-angle 89° /89° /89° /89° for portrait and landscape mode



IDP31-156W

- Multiple signal interface with HDMI, VGA and DVI
- Multi-touch by projected capacitive touchscreen solution, Built-in speakers (optional)
- Thin profile, light enclosure - no need for additional enclosures or metalwork

CRV-430JP

- Enhanced solution for casino slot machines, gaming, signage, kiosksand other public information terminals
- VGA, Display port, HDMI interface. Integrated Projected Capacitive (PCAP) Multi-touch
- 43" in Ultra HD (3840 x 2160) with 1500R curvature

Return

All Lineup

©Macnica,Inc.

Edge AI PC
Application Focus PC

1. ADVANTECH

ADVANTECH Edge AI Box型 PC

AIR-150

- Intel 13th gen. Core i3/i5 up to 14 Watt with 10 Cores
- Empowered by Hailo-8 M.2 AI module up to 26 TOPS

AIR-310

- Support Intel ® 14th Gen. Core™ i3/i5/i7/i9 processor up to 65W
- Support MXM 3.1 Type A GPU card up to 60W

AIR-510

- Intel® Raptor Lake S Platform to support 13th Gen Intel® Core™ processors
- NVIDIA Certified with RTX 6000 Ada graphic card

AIR-520

- 4U Edge AI Server powered by AMD EPYC 7003 series processor, provides up-to 64 cores, 768GB DRAM, four PCIe x16 expansion slots

EI-53

- Intel 13th Gen. Core i7/i5/Celeron up to 14 Watt with 10 Cores
- Compact Fanless 156 x 112 x 60mm dimensions

Return

All Lineup

©Macnica,Inc.

ADVANTECH Edge AI Box型 PC

AIR-020R **New**

• Edge AI Inference system powered by NVIDIA® Jetson Orin™ Nano and Super mode

AIR-021 **New**

• Edge AI Inference system powered by NVIDIA® Jetson Orin™ NX/Nano and Super mode with MIPI-C

AIR-055 **New**

• Edge AI Inference system powered by Qualcomm Dragonwing™ IQ-9075 processor up to 100 TOPS

AIR-075 **New**

• Edge AI Inference system powered by NVIDIA® Jetson Thor™

AIR-120 **New**

• Edge AI inference system powered by Intel® Atom® processor with Hailo-8 AI acceleration module

MIC-742-AT **New** Preliminary

• Embedded with NVIDIA® Jetson T5000™ up to 2070 TFLOPS(FP4)

MIC-743-AT **New** Preliminary

• Embedded with NVIDIA® Jetson T5000™ / Jetson T4000™ up to 2070 TFLOPS (FP4)

Return

All Lineup

©Macnica,Inc.

ADVANTECH Application Focus Box 型PC

AFE-R770

- Intel 13th gen. Core i3/i5 up to 14 Watt with 10 Cores
- Empowered by Hailo-8 M.2 AI module up to 26 TOPS

ARK-2251

- Intel 13th Gen Intel® Core™ U-series 10 cores (2 P-cores and 8 E-cores) SoC
- 2x 2.5 GbE LAN, 1x GbE LAN, 6x USB 3.1, 6x RS-232/422/485, 2x HDMI and 2x CANBus
- Dual Channel DDR5-4800 memory up to 64GB

ADVANTECH

Return

All Lineup

©Macnica,Inc.

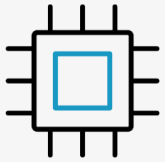
HAILO

1. 会社紹介
2. プロダクト紹介

HAILO 会社概要

- 設立：2017年
- Office：本社/イスラエル　支社/アメリカ、ドイツ、日本、台湾
- 独自のデータフロー・アーキテクチャで特許取得
- 従業員数：300人
- 戦略的投資家(NEC様,ABB様)を含め$350Mの資金調達を実施

AI
Chipmaker

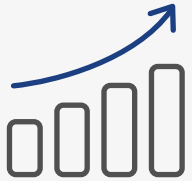


Patented &
field proven
ML architecture

Founded in
2017

2nd Generation
in mass production

>10x
Revenue Growth
2021-2023



>300
Customer
Programs

10s
of products
in production

$350M funding
Including NEC & ABB

>300
70% of R&D are software
engineers

MACNICA

©Macnica,Inc.

HAILO 会社概要

- グローバルブランドでも採用

Adopted by Leading Brands

ABB ADVANTECH AISIN B&R DELL Elbit Systems GORILLA

HD HYUNDAI HEAVY INDUSTRIES Husqvarna iMotion KONICA MINOLTA Leica Geosystems

MVTec Software GmbH NEC rexroth A Bosch Company Schneider Electric SK Tattile Custom Vision Solutions TRUEN

Access to largest edge AI developers community

Raspberry Pi

Selected by Raspberry PI as its AI partner

AI

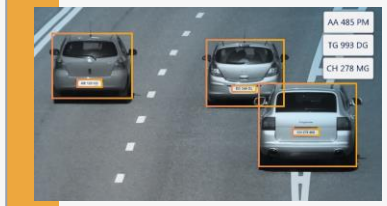
A Thriving Hailo Developer Community

©Macnica,Inc.

エッジコンピューティング活用事例

- Hailo の強力でスケーラブルな AI テクノロジーにより、さまざまな市場で新しい機能が可能になります

Security




ITS, 境界監視, アクセスコントロール

Automotive



ADAS, 自動運転, 周辺監視

Industrial Automation


AMR/AGV, AOI, ビルマネジメント, Robotics, マシナリ

Retail



POS, サプライチェーン管理

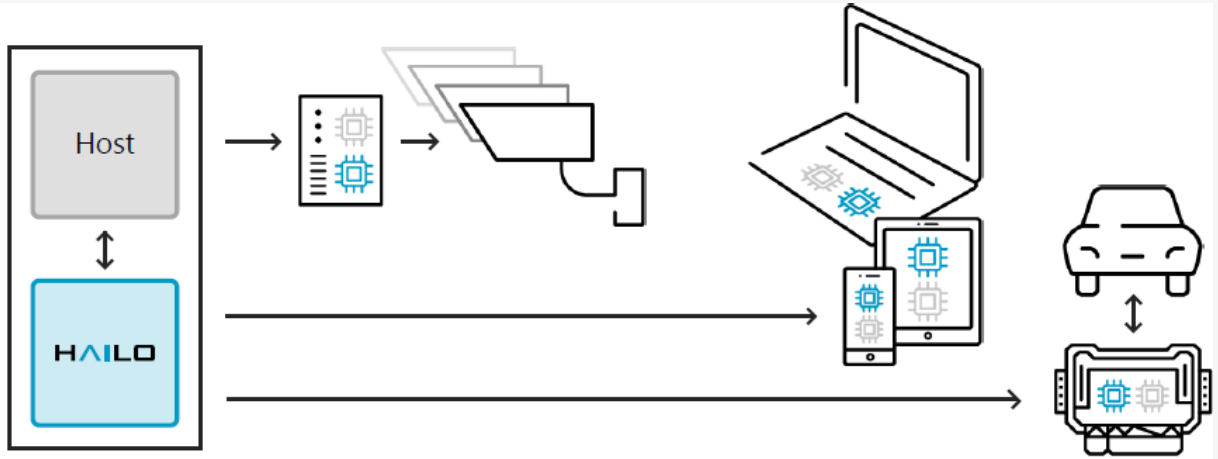
©Macnica,Inc.

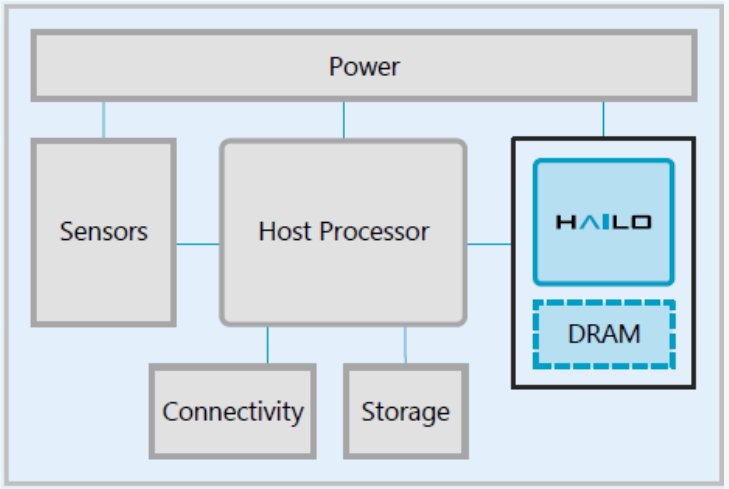
AIプロセッサーのポートフォリオ

- 多様なユースケースに対応するAIプロセッサーのポートフォリオ
- すべてのプロセッサーをサポートする単一のソフトウェア・スイート

AI Accelerators

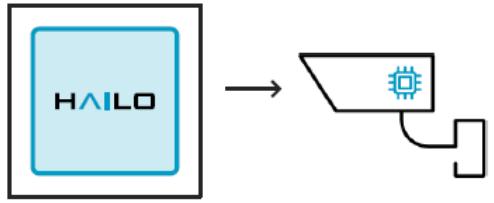
Hailo-8, Hailo-10

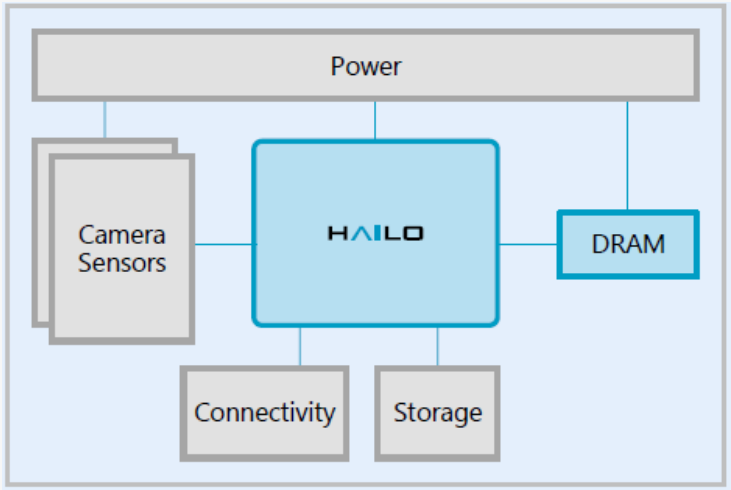




AI Vision Processors

Hailo-15



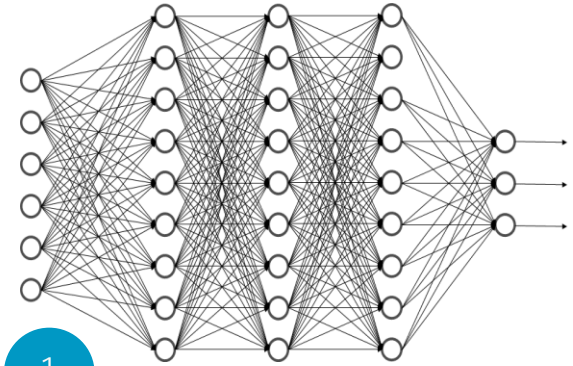


©Macnica,Inc.

Hailo データフローコンパイラー

学習済みのネットワークモデル

ユーザーによるニューラルネットワークの学習



1

TensorFlow

ONNX

Hailo SDK

Model Translator

Numeric Translator

Resource Allocator

Compiler

Emulator

Profiler

2

Hailo デバイスへのインプリ

3

バイナリファイル出力

©Macnica,Inc.

Hailo8 採用例

Idein Inc. × AISIN

エッジAIカメラ「ai cast（読み：アイ キャスト）」は、
“Raspberry Pi” に “Hailo-8 エッジAIプロセッサ” を搭載したAIカメラです

大手自動車部品メーカーの
アイシン製で**信頼品質**

設置環境になじむ**デザイン**

コンパクトな手のひらサイズ

※「ai cast」は商標登録中

Actcast

「Actcast」と連携済みのため
最短手順でデータ取得が可能

Hailo-8
エッジAI
プロセッサ

＋

Hailo-8の性能を引き出す
Ideinの技術力

https://note.com/idein/n/n63728d3c107e

©Macnica,Inc.

Jetson Nano/Jetson Orin Nano/ai cast

Raspberry Pi単体
解像度: 192x192
検出可能物体の種類: 1種類
検出方法: 位置 + 大きさ
モデル: mobilenet v2 ssd

「ai cast」
解像度:**640x640**
検出可能物体の種類:**80種類**
検出方法: 位置 + 大きさ + **形状**
モデル: YOLOv5L segmentation

Raspberry Pi Compute Module4 + Hailo-8

速度比較

デバイス	ランタイム/精度	FPS	infer latency(ms)	all latency(ms)
Jetson Orin Nano	trtexec/FP32	49.0	20.9	44.5
Jetson Orin Nano	trtexec/FP16	97.8	10.7	36.9
Jetson Orin Nano	trtexec/INT8	126.3	8.6	36.5
Jetson Nano	trtexec/FP32	6.5	153.3	224.8
Jetson Nano	trtexec/FP16	10.6	93.7	154.5
ai cast	Hailo8/INT8	250.5	8.6	35.6

精度比較

デバイス	ランタイム/精度	mAP@IoU0.50:0.95	mAP@IoU0.50	mAP@IoU0.75
Jetson Orin Nano	TensorRT/FP32	35.2	52.2	38.1
Jetson Orin Nano	TensorRT/FP16	35.2	52.2	38.0
Jetson Orin Nano	TensorRT/INT8	31.0	46.8	33.7
ai cast	Hailo8/INT8	34.3	51.8	37.1

消費電力比較

デバイス	アイドル時(W)	デモ推論時(W)	ベンチマーク時平均(W)
Jetson Orin Nano (INT8)	6.8	8.8	12.7
Jetson Nano (FP16)	1.5	5.1	8.8
ai cast	3.7	4.5	7.8

https://note.com/idein/n/n63728d3c107e

©Macnica,Inc.

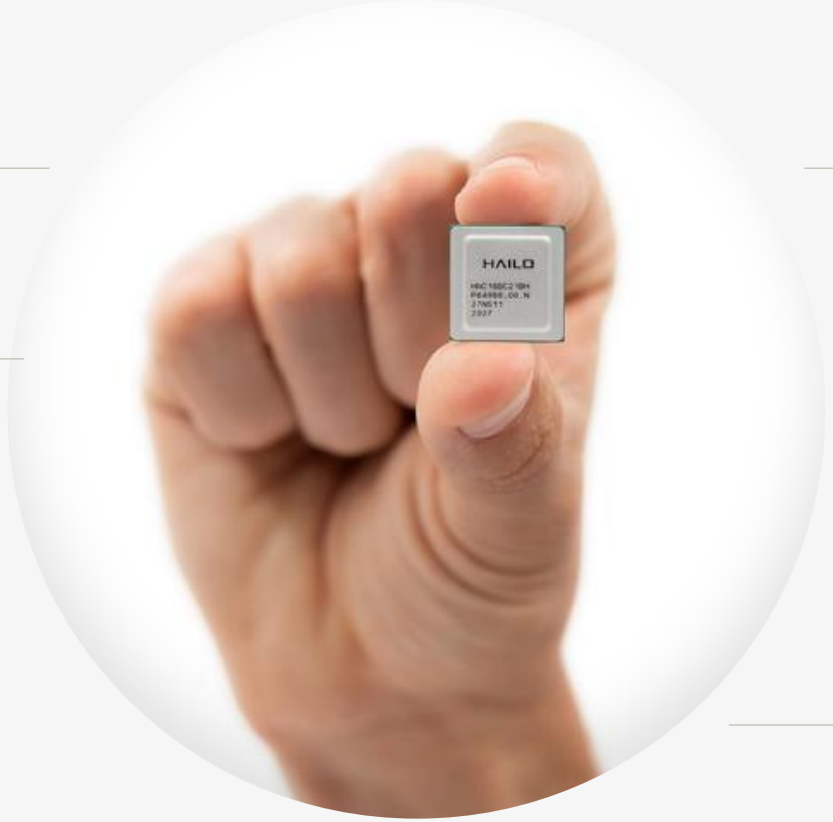
Hailo-8

Hailo-8™ の優位点

低消費電力/ハイパフォーマンスなエッジAIプロセッサー

ハイパフォーマンス
- 13-208 TOPS

効率的なAI アーキテクチャ
- 外部 DRAM 不要
- 低消費電力
- 低レンテンシ



多用途

包括的なソフトウェア
- 成熟したデータフローコンパイラ
- 効率的なRTライブラリ
- サンプル （ Model Zoo ）

広範囲の温度対応
- Industrial: -40°C to 85°C
- Automotive: -40°C to 105°C

Scalable & Flexible
- Multi-streams
- Multi-model
- Multi-chip

©Macnica,Inc.

Hailo-8™ プロダクト

- チップ、M.2・PCI Express モジュールを用意

Hailo-8L Entry-Level AI Accelerator

CoB –
13 TOPS

M.2 Entry-Level AI Acceleration Modules
13 TOPS

Key B+M
2 lanes

Key A+E
2 lanes

Hailo-8 AI Accelerator

CoB –
26 TOPS

M.2 AI Acceleration Module
26 TOPS

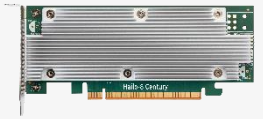
Key M
4 lanes

Key B+M
2 lanes

Key A+E
2 lanes

Hailo-8R mPCIe AI Acceleration Module
13 TOPS

Hailo-8 Century High Performance PCIe Cards



Small Form Factor
52-104 TOPS

0802, 0803, 0804

Wide Host Compatibility
104-208 TOPS

0804S, 0805S, 0806S, 0807S, 0808S

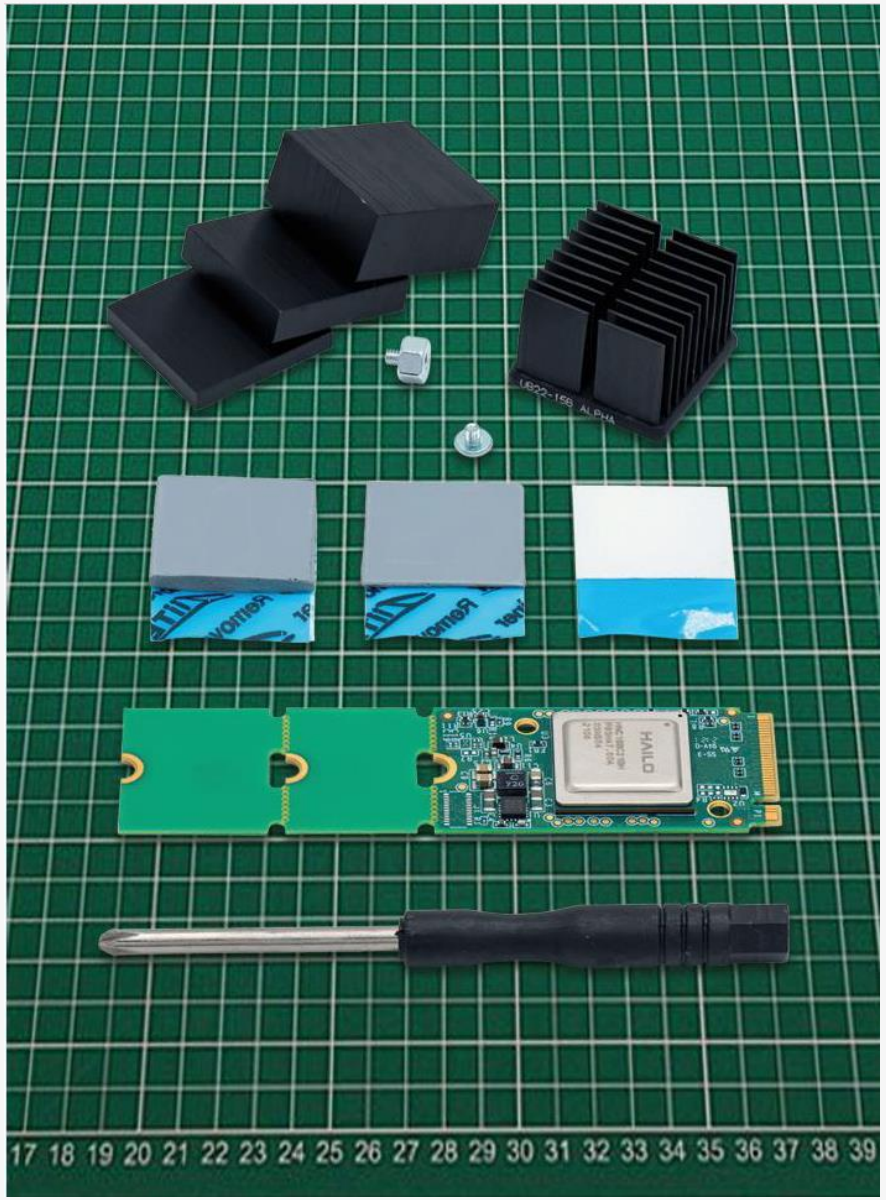
©Macnica,Inc.

Get Started with Hailo

- AI accelerator module for developing and prototyping edge AI applications
  - M.2 Module (key M, key A+E or key B+M) with Hailo-8 AI accelerator processor
- Local support by Hailo's Field Application Engineers or distribution partners
- Online Developer Zone:
  - Documentation and knowledge base
  - Online service
  - SW download
  - Reference designs, rich model library, and more resources
- Monthly software training webinars

Start breathing AI into your edge products — Sign Up

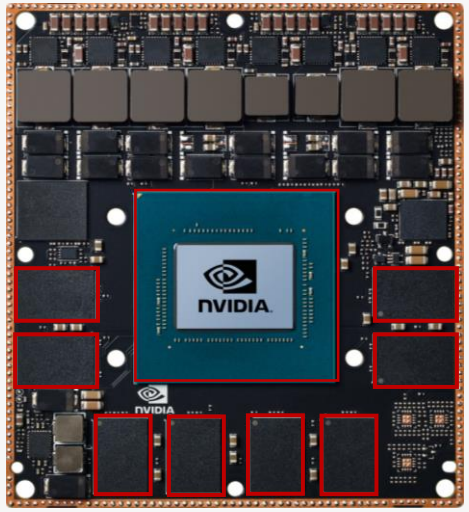
Hailo-8 Starter Kit $270



©Macnica,Inc.

圧倒的なAIパフォーマンス

NVIDIA AGX Xavier



Nvidia:汎用的なGPU
+ 外部メモリが必須

Hailo-8™

HAILO:専用AI Chip
専用品のため外付け
メモリ不要

ResNet-50 ベンチマーク

Device	Total Power [Watt]	Total Power Efficiency [TOPS/W]
Hailo-8™	1.7	2.8
Nvidia Xavier AGX	32	0.14

Conditions:
- TOPS (8-bit): Xavier 32 TOPS, Hailo-8 26 TOPS
- 224x224 image resolution feed @ 656 FPS
- 8-bit precision
- Batch size = 1

15倍の面積効率

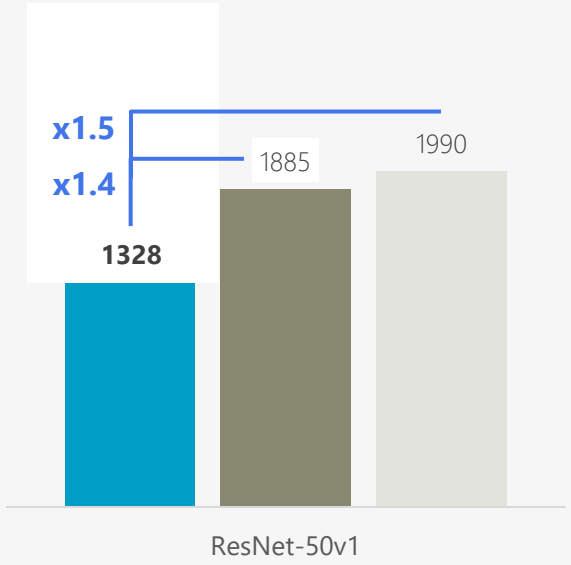
20倍の電力効率

©Macnica,Inc.

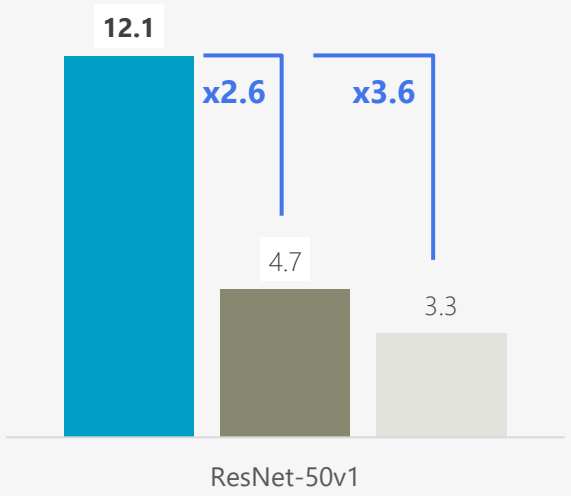
Deep Learning Performance Comparison

1 x Hailo-8 vs. Orin NX 8GB/16GB

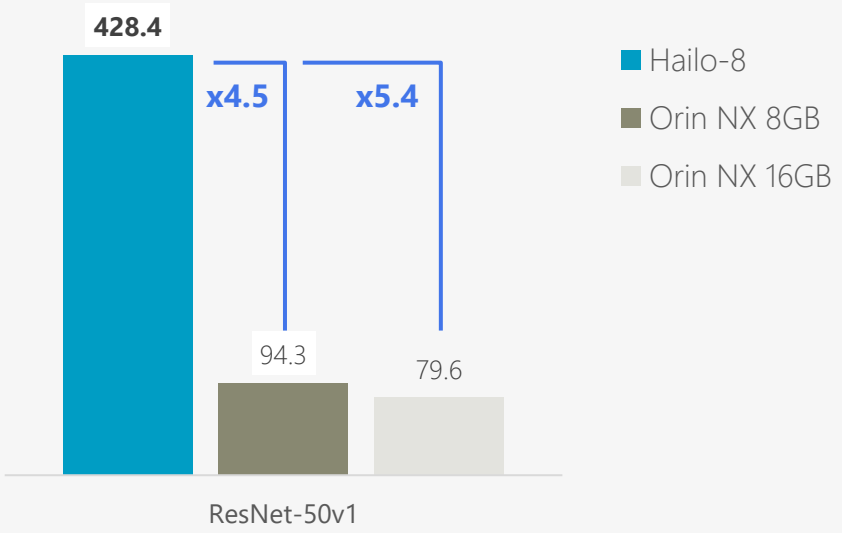
Performance (FPS)



Cost Efficiency (FPS/$)



Power Efficiency (FPS/W)

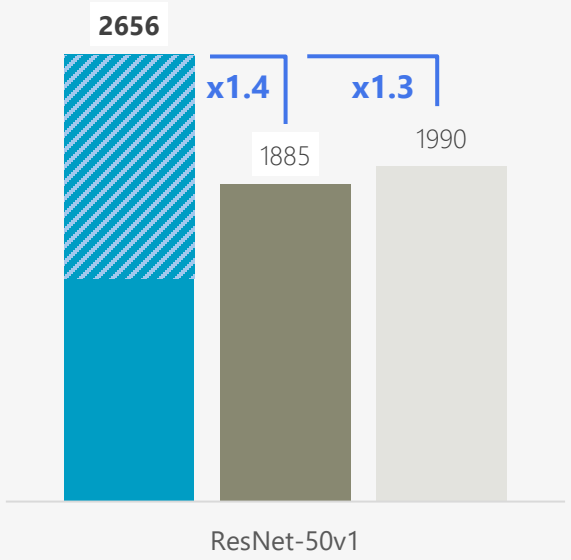


©Macnica,Inc.

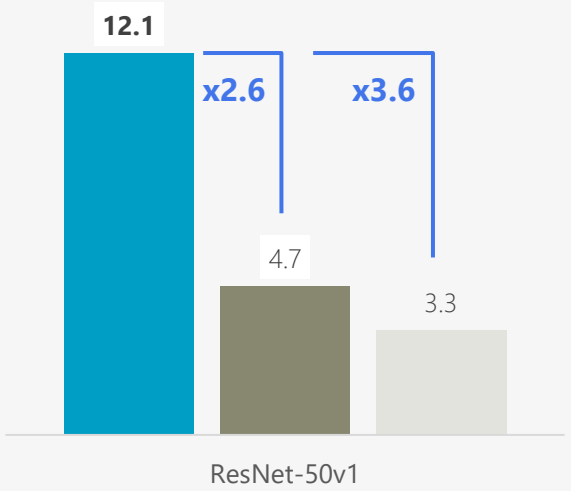
Deep Learning Performance Comparison

2 x Hailo-8 vs. Orin NX 8GB/16GB

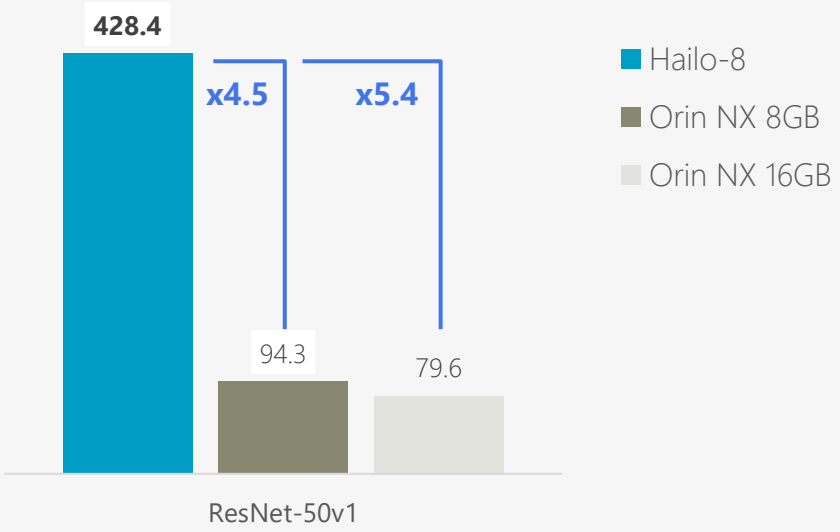
Performance (FPS)



Cost Efficiency (FPS/$)



Power Efficiency (FPS/W)

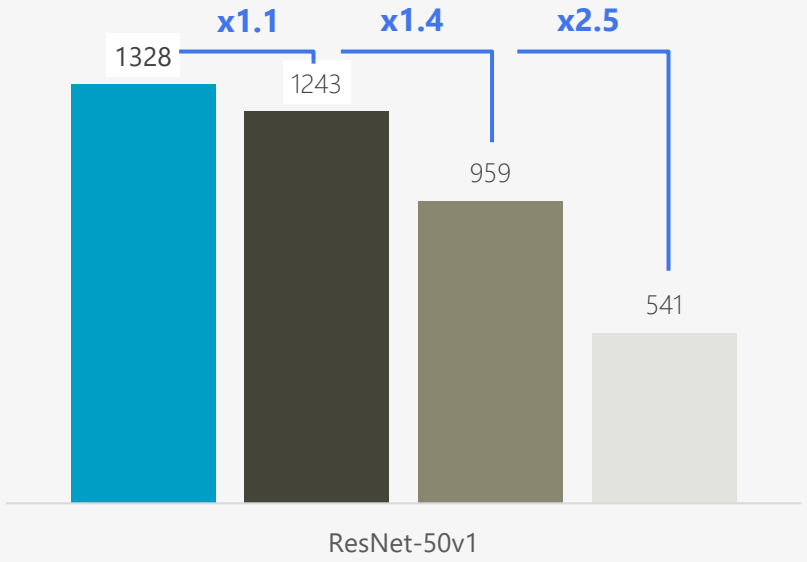


©Macnica,Inc.

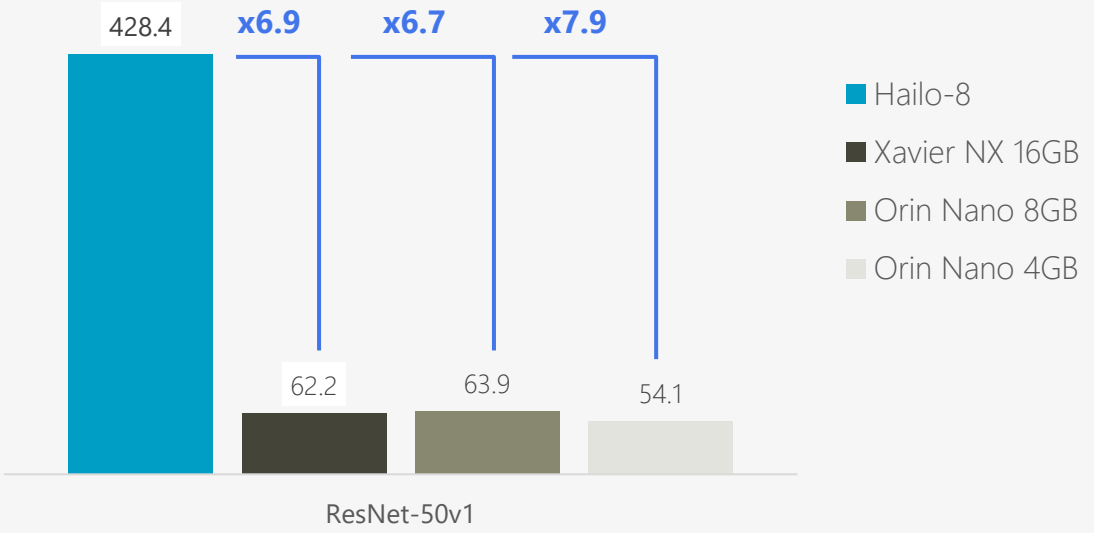
Deep Learning Performance Comparison

Hailo-8 vs. Xavier NX & Orin Nano 4GB/8GB

Performance (FPS)



Power Efficiency (FPS/W)

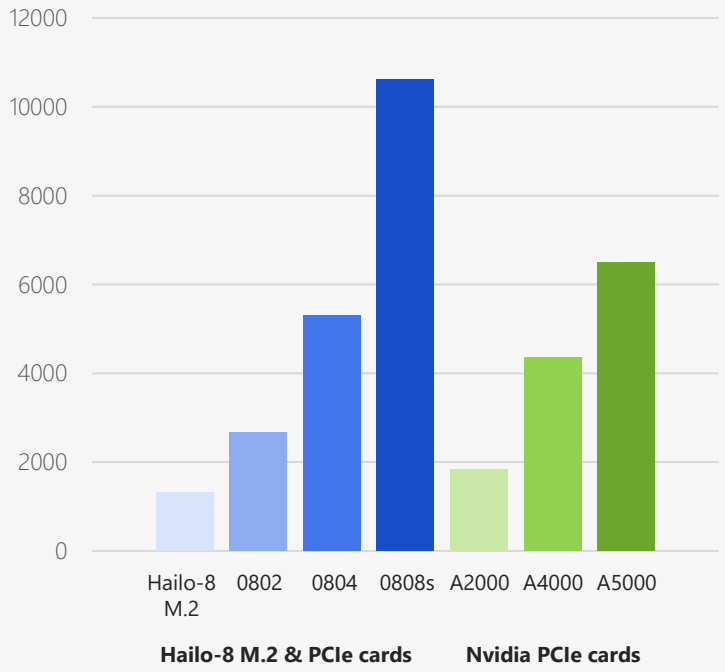


©Macnica,Inc.

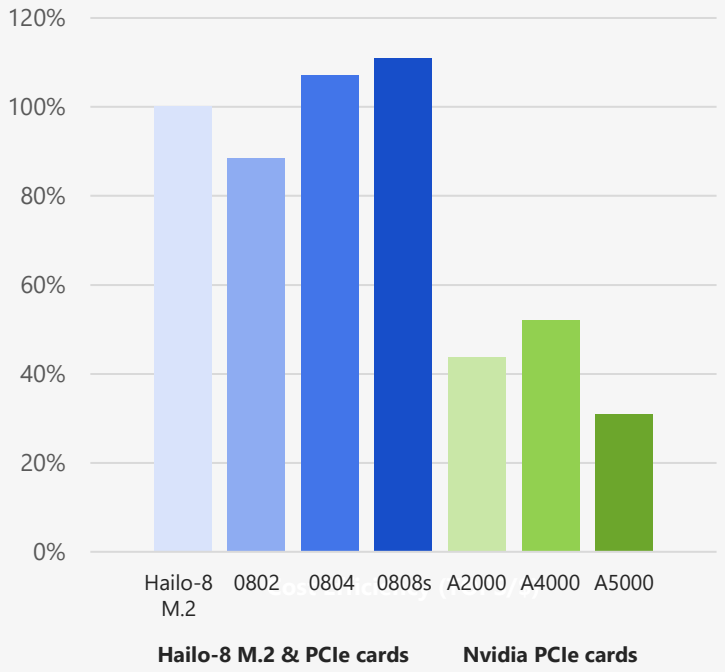
Hailo-8™ vs. Nvidia – FPS比較

Hailo-8 M.2 & Century vs. Nvidia GPU PCIe Cards

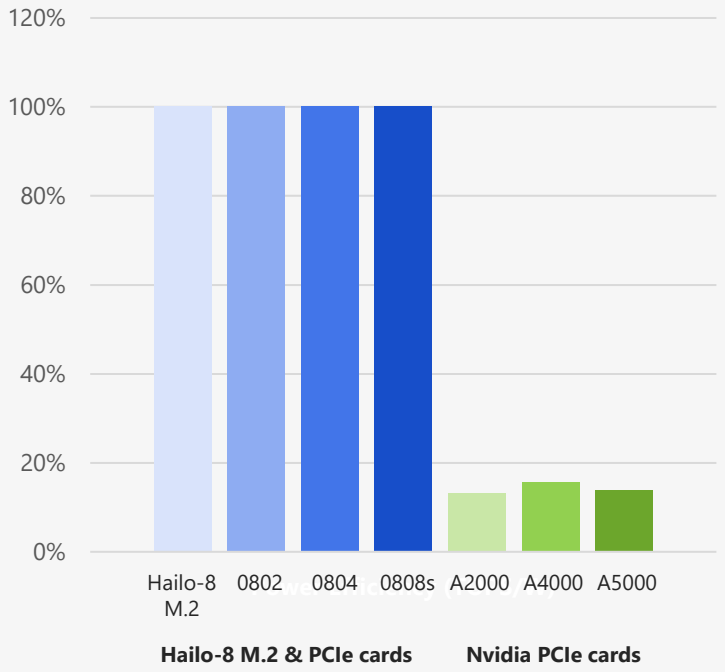
Performance
(ResNet-50FPS)



Cost Efficiency
(FPS/$)



Power Efficiency
(FPS/W)



©Macnica,Inc.

Hailo-8 Measured Benchmarks*

NN Model	Input Resolution	FPS	Power (W)	FPS/W
Classification				
ResNet-50 v1	224x224	1,332	3.4	391
MobileNet_v2_1.0	224x224	2,444	2.1	1,163
EfficientNet_M	240x240	897	3.5	254.2
ViT Base	224x224	126	2.5	52.5
Object Detection				
SSD_MobileNet_v1	300x300	1,016	2.2	461.8
YOLOv5m	640x640	218	4.7	46.3
Semantic Segmentation				
stdc1	1024x1920	59	3.1	19

https://hailo.ai/products/ai-accelerators/hailo-8-ai-accelerator/#hailo8-benchmarks

Notes:

1. *Batch 8*
2. *Measurements were taken at room temperature through PCIe interface on Hailo-8 evaluation board*
3. *System host: Intel® Core™ i5-9400 CPU @ 2.90GHz; Models compiled with Hailo Dataflow Compiler version 3.26.0 (SW version 2024-01)*

MACNICA
©Macnica,Inc.

Hailo-10H

Hailo AI Accelerator for GenAI

Hailo-10H Generative AI M.2 Module

- Powerful, scalable & efficient AI offering

High Performance

- Best performing edge processor
- Enables old generation / low-cost CPUs to run generative AI applications

Scalability & Versatility

- Enable consistent solution across different platforms, form-factors and CPU brands and generations
- Supporting a wide range of AI models including LLMs and other advanced Generative AI models

Low Power Consumption

- Low power consumption supporting mobile PC power envelope and enabling longer battery life while running intensive GenAI application

Easy Integration

- Software – Comprehensive and field-proven software suite with a rich model zoo for easy development
- Hardware – standard compact form factor (M.2 2422) that can be integrated to existing designs

©Macnica,Inc.

Hailo のパートナーとエコシステム

- お客様へパートナーの幅広いエコシステムと完全なソリューションを提供

Hardware

AAEON an ASUS assoc. co. / ADVANTECH Enabling an Intelligent Planet / ADLINK LEADING EDGE COMPUTING / Analog Tech アナログ・テック株式会社
AXIOMTEK / BASLER / Compulab / DELL / FOXCONN
HPC SYSTEMS / iBASE / iEi / kontron / Lanner
maris / MicroSys Creating Embedded Systems / MiTAC / NEXCOM / premio
Portwell / SolidRun / SUPERMICRO / Variscite / Vecow

Software

Industrial: 360ZERO VISION / DEEP VISION CONSULTING / MVTec Software GmbH / HD VISION high dimensional vision systems / VISION SYSTEM
Automotive: LeddarTech
Security: ART OF LOGIC / CVEDIA / INNOVATRICS / ISARSOFT
neurosoft
Defense: axon
Retail: Idein Inc.

Alliances

ctrlX AUTOMATION / FORXAI Video Security Solution
KONICA MINOLTA / rexroth A Bosch Company

Silicon

REGISTERED PARTNER NXP / RENESAS / socionext

Distribution

AIT group / EBV Elektronik An Avnet Company / INSEM IN SEMiconductor Inc.
MACNICA / KAGA ELECTRONICS GROUP

©Macnica,Inc.

HAILO お役立ち情報 Web Links

水色：リンク先

最新性能データ

NN Model Benchmark データ毎の
入力解像度, FPS, Power, FPS/watt

the Hailo Blog

Hailo に関する情報
実使用デモが掲載されています

MACNICA 記事

小型/低消費電力 Edge-AI システムの
構築をやってみました
i.MX8M Plus + Hailo-8 M.2
Module

製品採用例

Hailo-8™ 搭載製品・Solution
事例①：NSK 様 ①
事例②：HPC SYSTEMS 様 ①②
事例③：明電舎 様 ①

Hailo 搭載 PC

購入してすぐ評価可能な Hailo-8™ 組
み込み済みの PC です
Advantech AIR-150
Lanner LEC-7242H
AxiomTEK RSC101

Hailo Model zoo

Public トレーニング済みモデル群
GIT hub へのリンク

©Macnica,Inc.

セキュリティ

なぜIEC 62443-4-2 対応・準拠製品が重要なのか

セキュリティへの対応が必要な理由

セキュリティ対応を求める法令・ガイドラインへの対応

EU サイバーレジリエンス法をはじめとするデジタル製品に対してセキュリティ確保を義務付ける法令やガイドラインへの対応が必要。未対応の場合には販売停止や制裁の対象となる可能性もあり

複雑化するサプライチェーン要件

部材の選定の際、セキュリティを担保した部材（e.g「**IEC 62443-4-2認証取得済みであること**」）を求める動きもあり

品質・信頼性としてのセキュリティ

長期運用・更新・脆弱性対応までの説明責任が求められ、製品ライフサイクル全体を通じたセキュリティ設計が必要

部材の選定段階から考えるセキュリティ設計

セキュリティを「**選定時点で織り込む前提条件**」として扱うことが重要

- **要件やスケジュールに応じて**、担保レイヤー（チップ／モジュール／IPC）を最適化
- **モジュール/IPC起点の設計も有力**：IEC 62443-4-2認証済み製品で開発負担を軽減
- **4-2認証済み製品の採用**で、上位システムの認証取得プロセスを簡略化
- **チップ起点の設計も有効**：製品特性に合わせた最適化や独自要件への対応がしやすい

MACNICA

IEC 62443-4-2 対応製品を採用する3つのメリット

開発コストと工数の削減

認証済み製品を組み込むことで

自社でセキュリティ機能を一から設計・検証する必要がなく、大量のエビデンス作成も不要。
認証済みの製品を導入することで、上位システムの認証取得作業を効率化可能。

設計・検証負荷を削減

市場投入までの期間を短縮

既に要件を満たしている製品を採用することで

CRAなどの法規制への適合を確認するには、専門的な知識と十分な時間が求められる。
要件を満たす既存の部材を使用することで、コンプライアンス審査のリスクを抑え、迅速な製品リリースへ寄与。

Time to Marketを短縮

グローバル市場での信頼性

認証済み製品を採用していることは

IEC 62443という国際標準に基づく**認証済み製品を使用していることは**、「第三者機関によって安全性が客観的に証明されている」という確かな信頼の根拠となる

国際的な信頼性を確保

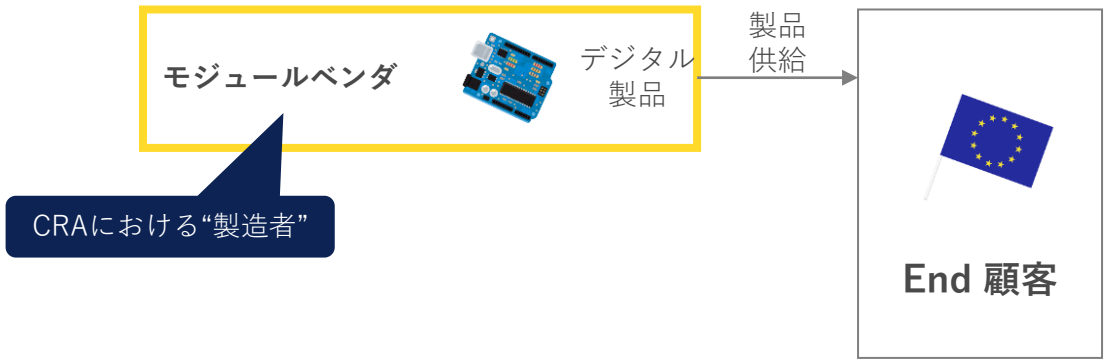
セキュリティ対応製品情報

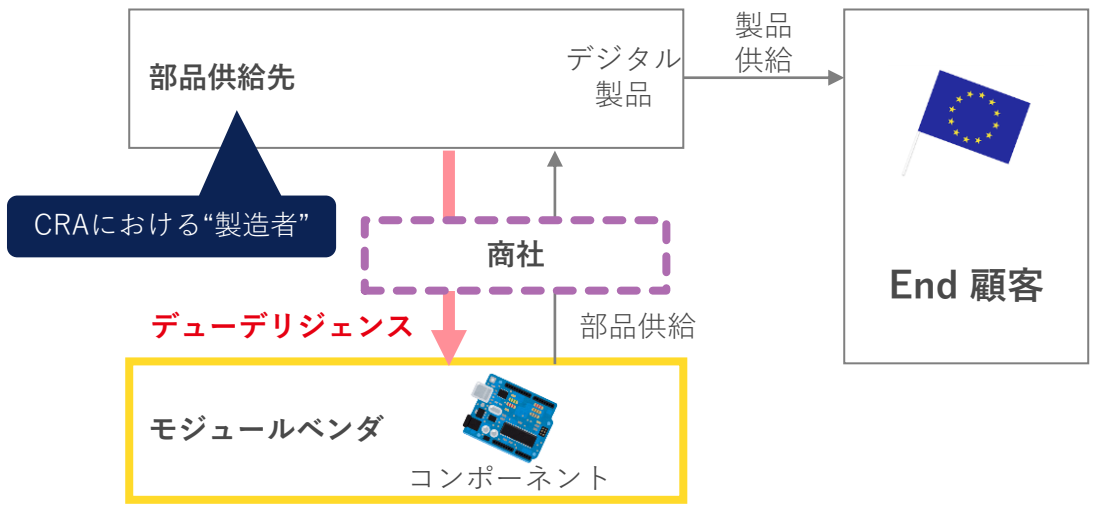
ベンダー ※アルファベット順	IEC 62443-4-1 （開発プロセス認証）	62443-4-2　対応状況				
		SBC / COM	PLC	Box PC / GW	マネージドスイッチ	HMI / Panel PC
ADLINK Leading EDGE COMPUTING	認証済 (TÜV Rheinland)	Ubuntu認証HW プロセス準拠	SoftPLC用IPCとして 利用可能	IoT GW製品あり	–	Smart Panelなど
ADVANTECH	認証済 (Bureau Veritas)	BIOS/TPM標準搭載 ARM系で認証取得例あり	CODESYS実装機など	ICR/ECUシリーズ (セキュリティGW)	EKI-7700/9500等	TPCシリーズ (WebAccess対応)
iEi	4-1 取得に向けて対応中 (申請済み、監査待ち)	TPM搭載モデル多数	–	TANK/DRPC/PUZZLE シリーズ	–	産業用Panel PC多数
SECO	4-1 取得に向けて対応中 *2026Q2までに取得見込	Clea/Exein連携で 準拠可能	–	IoT GW製品あり	–	Clea搭載モデル

凡例（ステータス定義）
Certified（認証取得済み）：第3者機関によるIEC 62443-4-2認証を取得した製品シリーズがカタログにある。
準拠/プロセス認証：開発プロセス(4-1)認証取得済み、または要件を満たす専用機能を実装済み。
Ready（準拠可能）：TPM搭載などの要件は満たしており、SIerの設定・統合により準拠可能。
-: 該当製品なし、または情報なし。

MACNICA

製造者＆部品サプライヤーの両面で考えるセキュリティへの対応





CRA における製造者としての対応が必要

ベンダとしてCRAへ準拠（CEマークの取得）

製造者の義務（第13条）
設計･開発･製造･販売･サービス運用において製品セキュリティを確保するための義務を負う

製造者の報告義務（第14条）
製品に関わる報告対象の脆弱性/インシデント認識時は24時間以内に当局(国家CSIRT・ENISA)へ通知する義務を負う

製造者からのデューデリジェンスへの対応が必要

想定される確認観点

a	✓ CRAに準拠若しくは同等レベルのセキュリティが確保された製品か
b	✓ 調達コンポーネントは、継続的な脆弱性対処が講じられているか ✓ 調達コンポーネントは、今後も脆弱性対処が講じられることを確保できるか
c	✓ 調達コンポーネントに既知の悪用可能な脆弱性がないか

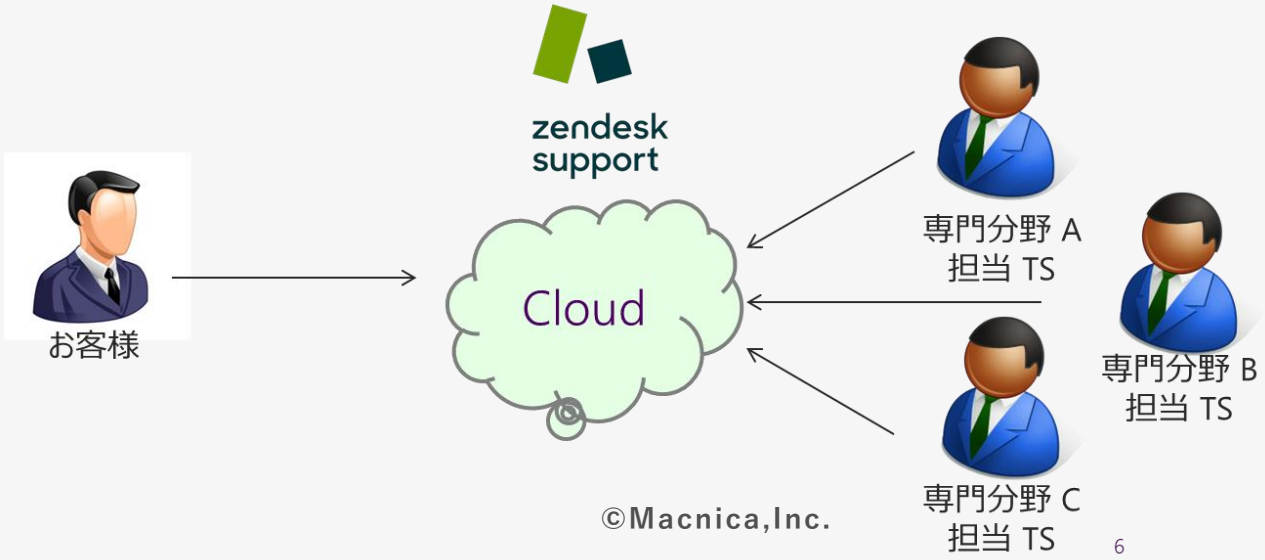
アルティマとして主に遭遇するケース

マクニカ
アルティマカンパニー技術サポート体制

©Macnica,Inc.

マクニカ技術サポート窓口 (My Support システム)

- Zendesk でのサポート対応
  - IPC製品　: support-cots@malt.zendesk.com
  - Hailo製品: support-hailo@malt.zendesk.com
  - 迅速で正確な回答
    - 専門の技術者をアサインして、迅速なレスポンスと質の高い回答を提供します
  - 問題のステータス管理
    - お問い合わせ毎に質問を管理し、回答漏れ・ミスコミュニケーションを防止します
  - 対応履歴の明確化
    - お問い合わせ毎に履歴を保持し、問題が長期化した際も過去の経緯のトラッキングを容易にします



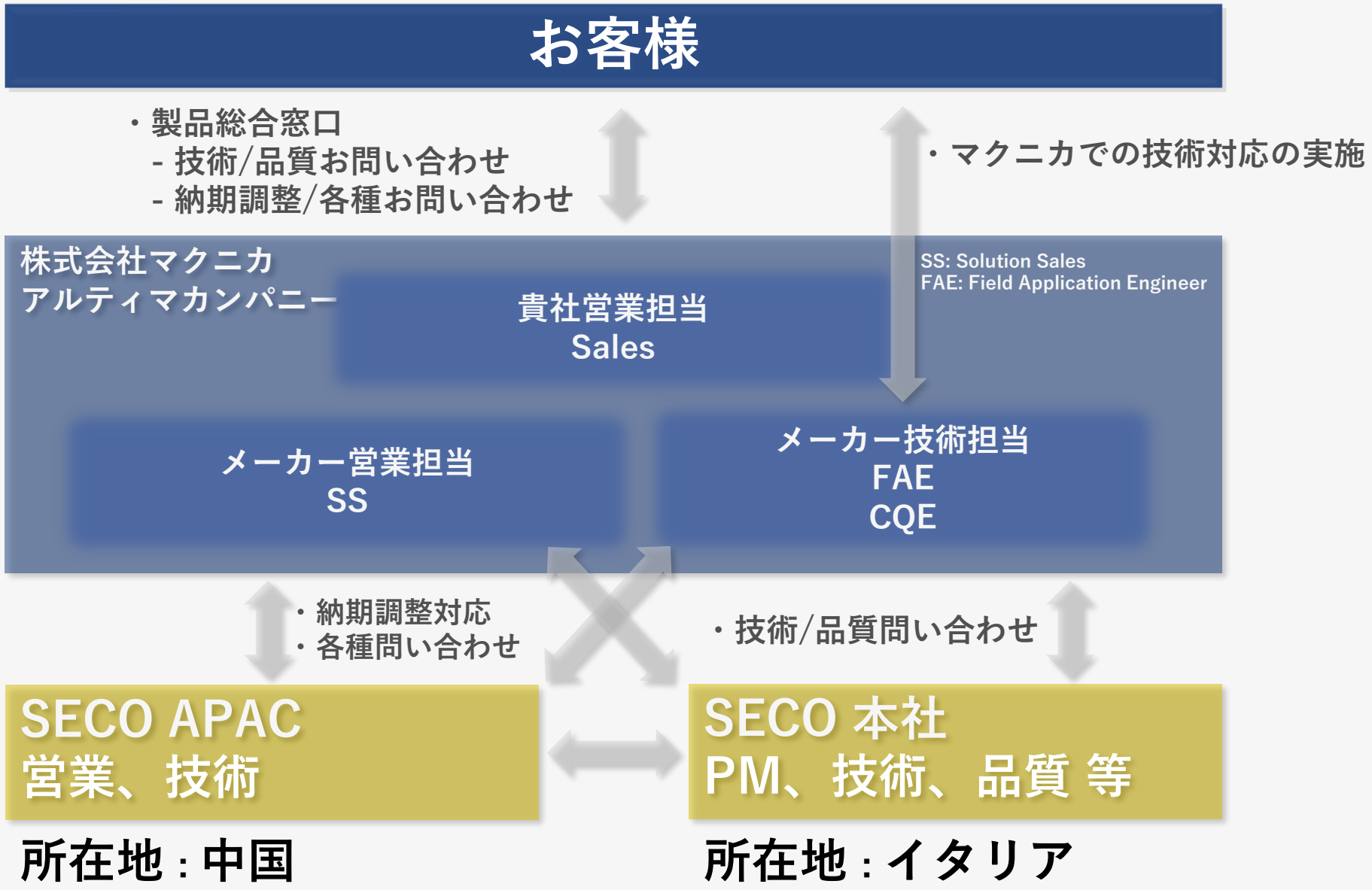
©Macnica,Inc.

・本資料に記載されている会社名、商品またはサービス名等は各社の商標または登録商標です。なお、本資料中では、「™」、「®」は明記しておりません。
・本資料のすべての著作権は、第三者または株式会社マクニカに属しており、（著作権法で許諾される範囲を超えて）無断で本資料の全部または一部を複製・転載等することを禁じます。
・本資料は作成日現在における情報を元に作成されておりますが、その正確性、完全性を保証するものではありません。

©Macnica,Inc.

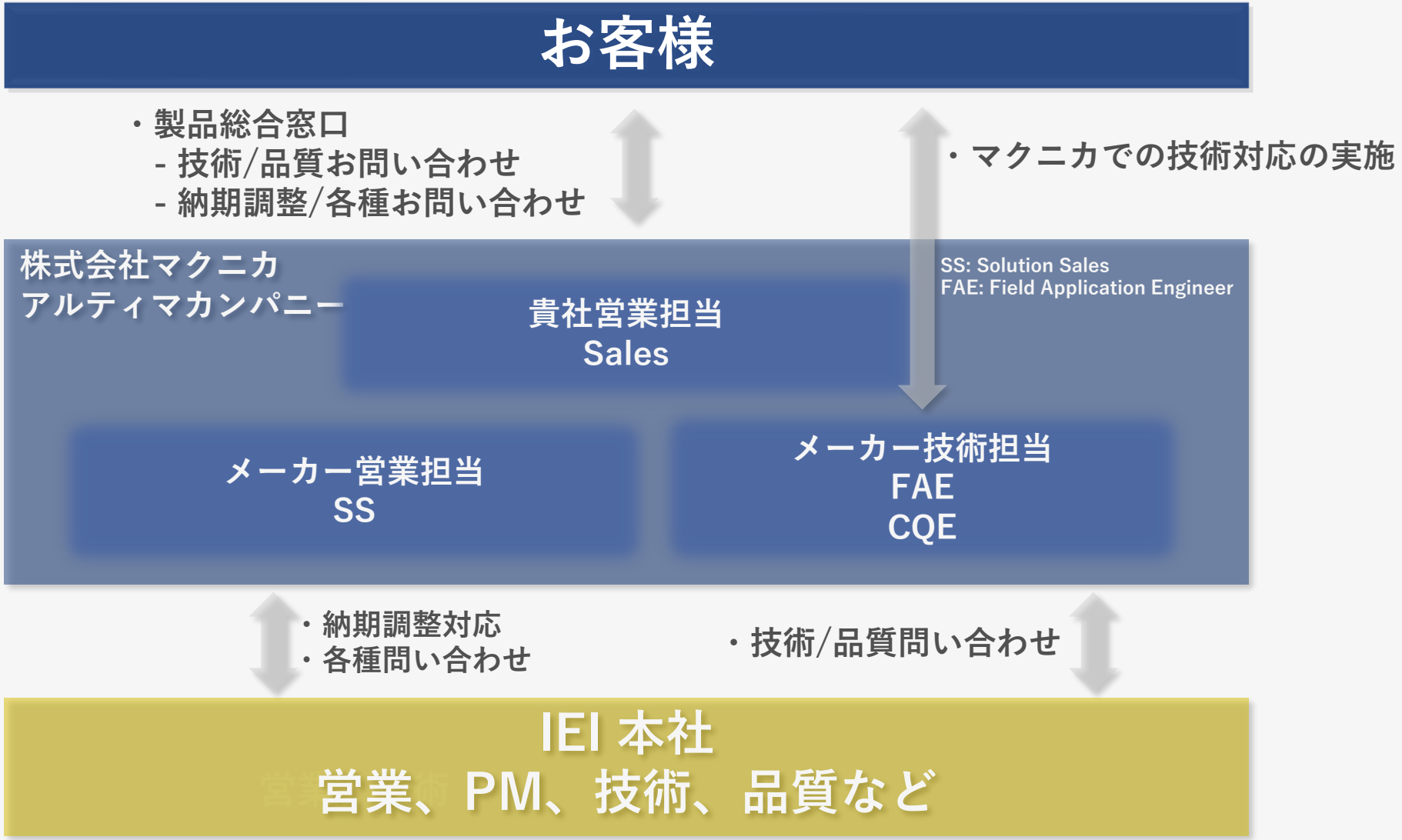
Appendix

マクニカアルティマカンパニー SECO 製品サポート体制図



©Macnica,Inc.

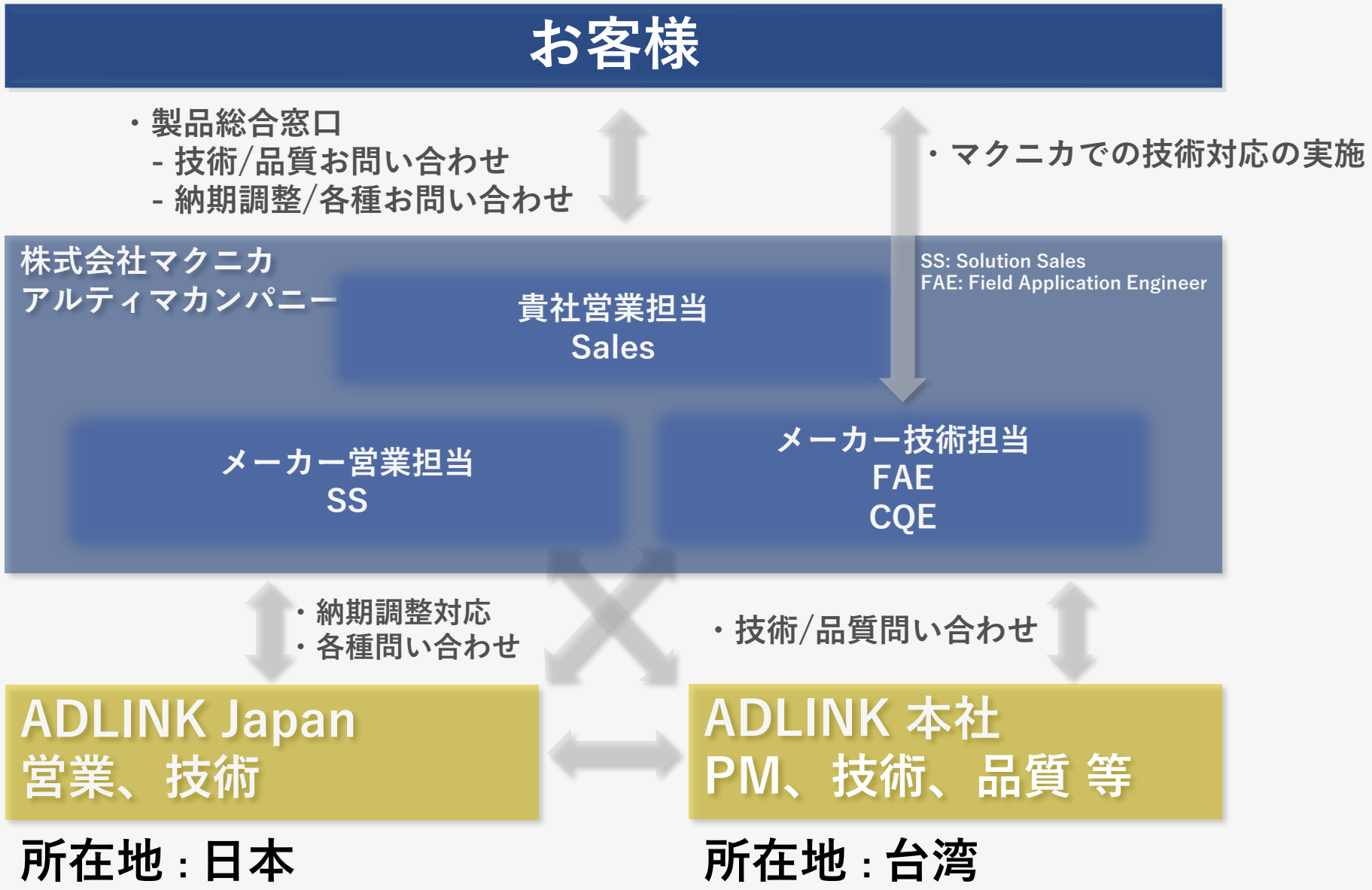
マクニカアルティマカンパニー IEI 製品サポート体制図



所在地：台湾

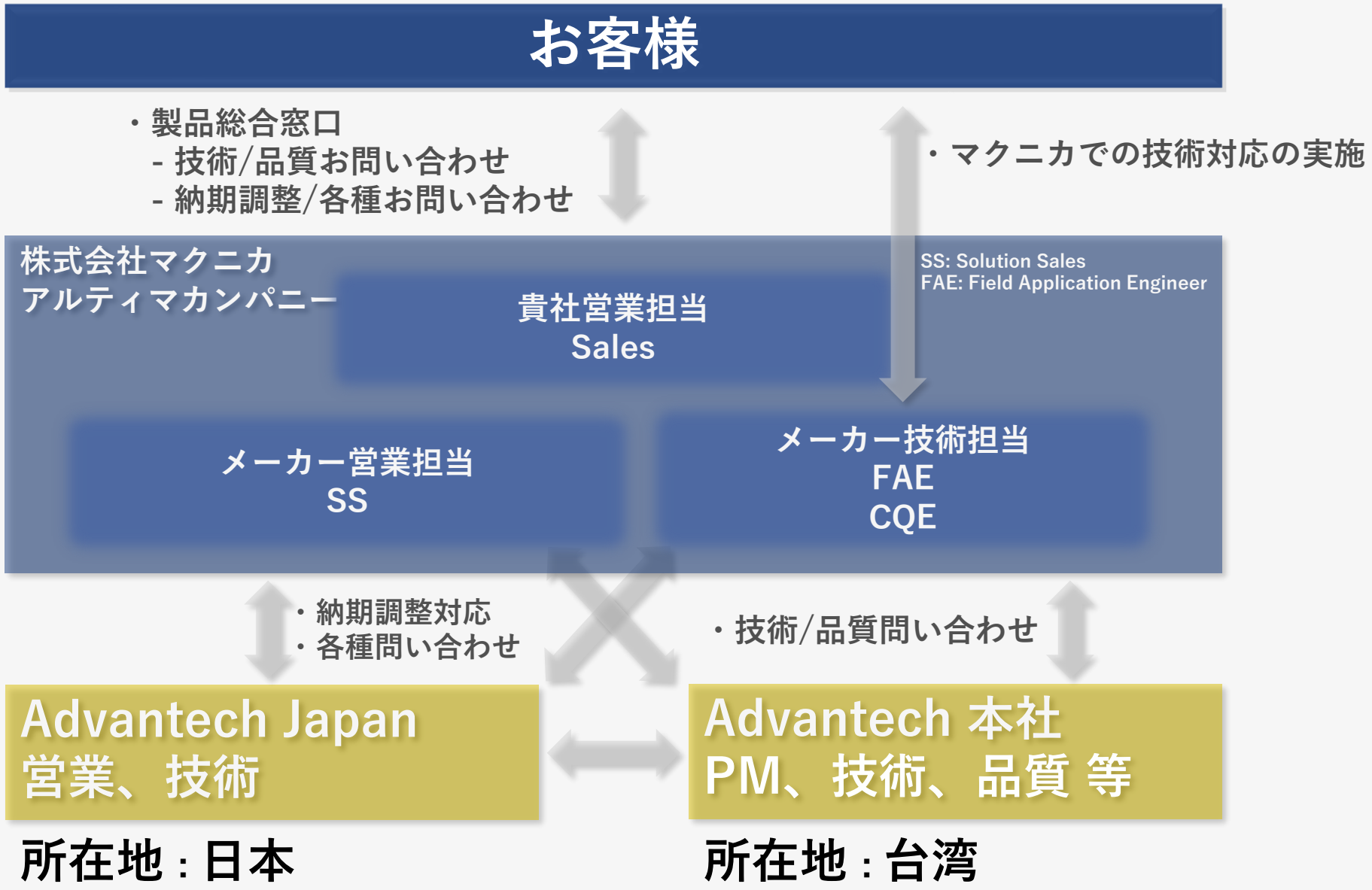
©Macnica,Inc.

マクニカアルティマカンパニー ADLINK 製品サポート体制図



©Macnica,Inc.

マクニカアルティマカンパニー Advantech 製品サポート体制図



©Macnica,Inc.

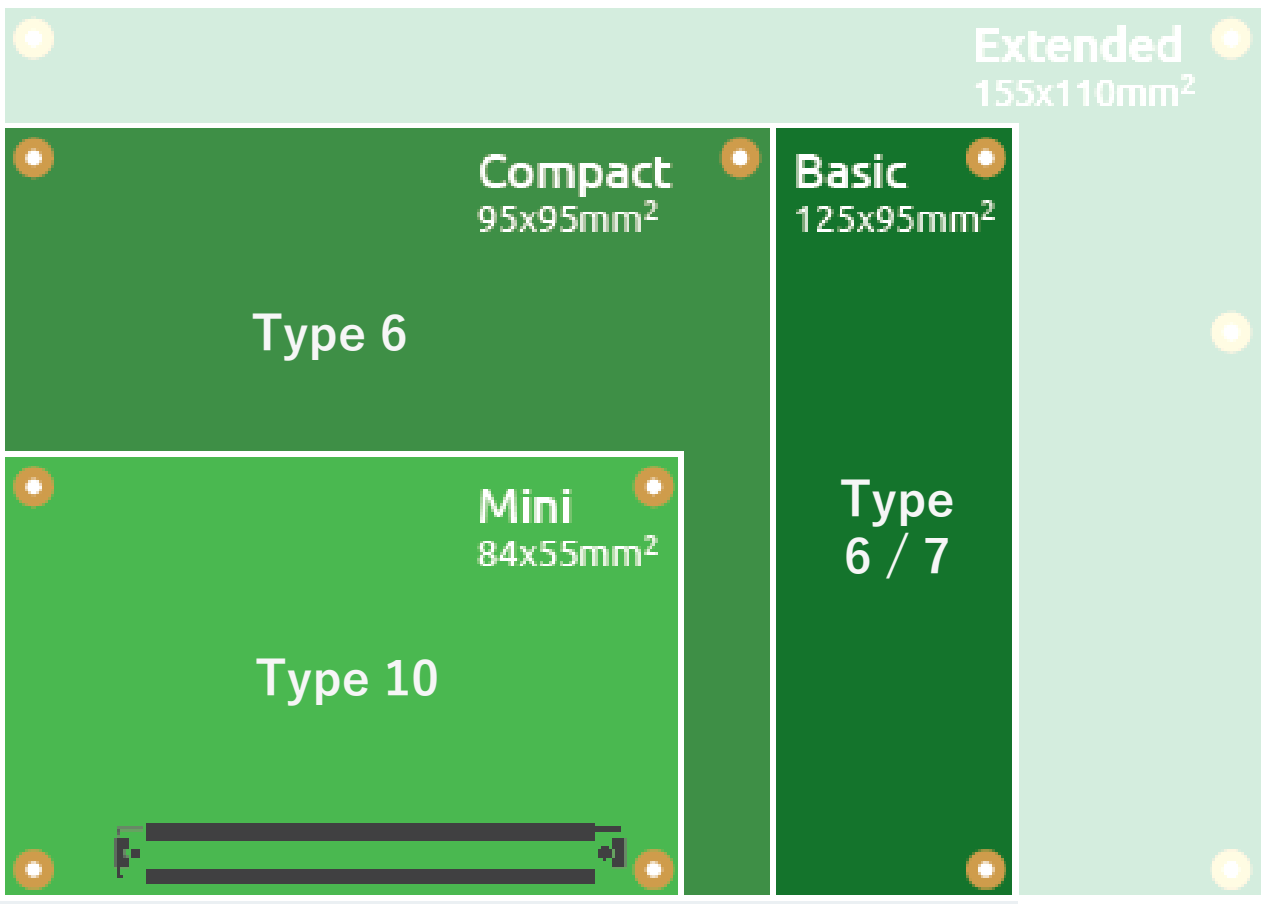
組み込み CPU module サイズ比較

	COM Express® (Type 10)	Qseven® (μQseven®)	SMARC®
Graphic I/F	最大 2（独立）	最大 3（独立）	最大 3（独立）
LVDS	1x single ch LVDS/eDP	2x dual ch LVDS/eDP	2x dual ch LVDS/eDP/MIPI DSI
Video I/F	1x DVI/HDMI/DP	1x DVI/HDMI/DP	1x HDMI/DP++ & 1x DP++
Camera Input	–	2x MIPI-CSI (flat foil connector on module)	上限 4x MIPI CSI
Audio	1x HDA	1x HDA/I2S	1x HDA & 2x I2S
Ethernet	1x Gbit	1x Gbit	2x Gbit
Wireless I/F	–	–	Bluetooth & WLAN オプション
Storage	2x SATA	2x SATA	1x SATA
PCI Express	4 レーン	4 レーン	4 レーン, 2x SERDESサポート
USB	8x USB2.0 / 2x USB3.0	8x USB2.0 / 2x USB3.0	6x USB2.0 / 2x USB3.0
Industrial I/F	2x Serial / CAN	4x Serial / CAN	2x Serial / CAN
GPIO	8 pin	8 pin	14 pin
SPI	1x	1x	1x
LPC	1x	1x	1x eSPI
SMB	1x	1x	1x
I2C	1x	1x	1x
Total Pin Count	220 pin	240 pin	314 pin

PCIe 以外の SERDES I/O をサポート

©Macnica,Inc.

COM Express® サイズ比較



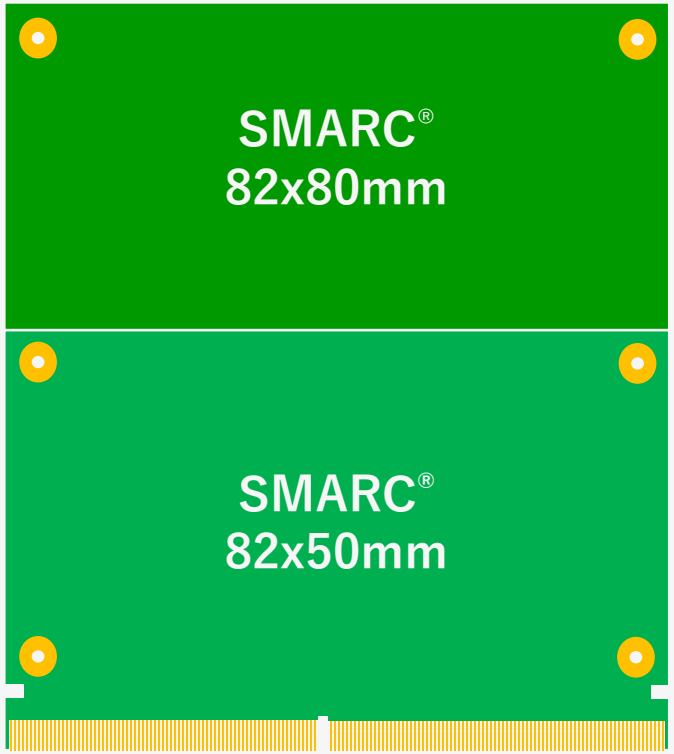
※Type 毎にピン互換なし、キャリアボードが異なる

COM Express® モジュールサイズ:

- Mini: 55 × 84 mm
  - 電力効率の高いシステム
  - Type 10
- Compact: 95 × 95 mm
  - 組み込みシステム
  - Type 6
- Basic: 95 × 125 mm
  - 標準 x86 システム
  - Type 6, Type 7
- Extended: 110 × 155 mm
  - 最大パフォーマンス

©Macnica,Inc.

SMARC® サイズ・特徴



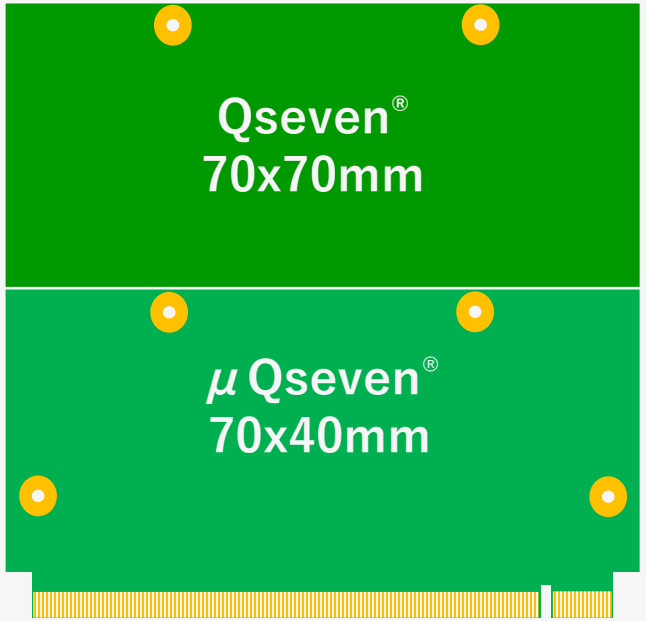
※サイズ関係なくピン互換

SMARC® モジュールサイズ:

- 82 × 50 mm
- 82 × 80 mm
- X86 および ARM® CPU 使用
- 低消費電力向けモジュール規格
- 6W 未満から最大 15 W のデバイス
- コネクタは MXM3 エッジコネクタ
- Fanless, Passive Cooling でデザイン
- I/O 電圧のデフォルトが 1.8V
- MIPI-CSI 用のコネクタの推奨場所等も規定されている

©Macnica,Inc.

Qseven サイズ・特徴



※Type 毎にピン互換

Qseven® モジュールサイズ:

- μQseven® : 70 × 50 mm
  - 電力効率の高いシステム
- Qseven® : 70 × 70 mm
  - 組み込みシステム
- x86 低消費電力のモジュール規格
- コネクタは MXM エッジコネクタ
- 12W 以下のデバイスで設計推奨
- I/O コネクタの場所を規定
- GPIO は 3.3V で規定

©Macnica,Inc.

Benchmark 比較表 Core™ Ultra, Core™ , Atom™ シリーズ

	インテル® Core™ Ultra プロセッサー		インテル® Core™ プロセッサー		
CPU世代	シリーズ2 Arrow Lake	シリーズ1 Meteor Lake	第13世代 Raptor Lake	第12世代 Alder Lake	第11世代 Tiger Lake
Core™ i7 Core™ Ultra 7 Benchmark	Ultra 7 265H	Ultra 7 165H	i7-13800H	i7-12800H	i7-11850H
	34365	25877	26247	23902	19775
Core™ i5 Core™ Ultra 5 Benchmark	Ultra 5 235H	Ultra 5 135H	i5-13500H	i5-12500H	i5-11500H
	29433	22012	21047	20407	15501
Core™ i3 Benchmark	-	-	i3-1315U	i3-12100T	i3-1125G4
	-	-	11199	10220	9276

	インテル Atom® プロセッサー			
CPU世代	第7世代 Amston Lake	第7世代 Alder Lake-N	第6世代 Elkhart Lake	第6世代 Apollo Lake
Atom™ Benchmark	x7835RE	x7425E	x6425E	E3940
	7051	5237	3699	1816

©Macnica,Inc.