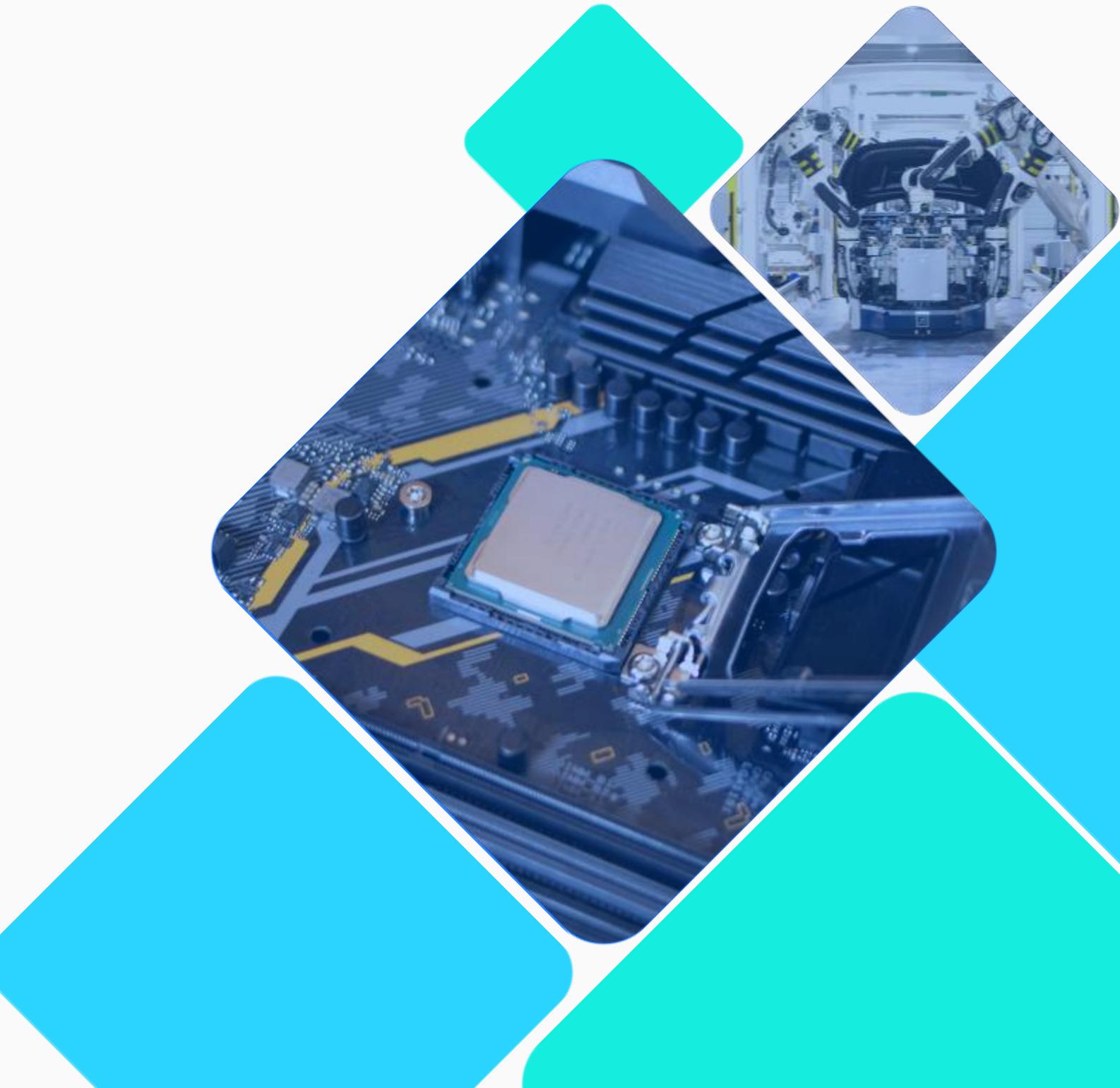




YNOT COMPANY INTRODUCTION

와이낫은 오랜 기간 반도체 업계 경험을 바탕으로
IT 기업들의 신뢰할 만한 반도체 공급 및 파트너 역할을 수행합니다.



• INDEX

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02

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Vision AI

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Turnkey Sourcing

About YNOT

H.Q location	Seoul, South Korea
Business Registration #	322-87-00686
Established in	Nov, 2015
CEO	최현영 Jake Choi
Capital	300,000 USD
Revenue	15.50M USD
Manpower	Sales & Marketing 4, QC 1, Engineers 3, SCM 2, CS 1



Entrance to YNOT



Office & RND



Show Room



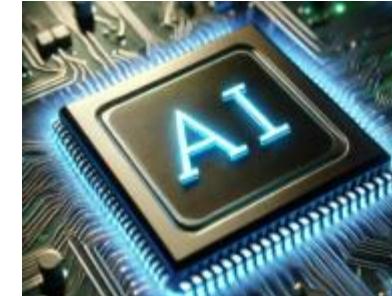
Conference Room



Inhouse Ware House

Hardware Eco-system

와이낫
적용분야



와이낫 설계지원

Edge IPC



Vision & Sensing



Display HMI(LCD, OLED)/
Android PAD



Wi-Fi, BT , LTE , 5G
GNSS , LoRa, UWB



Memory storage
(SSD/SD Card/DRAM)



Battery & Charger adapter
& Power Supply



AI Solutions



BOXER-8658AI



BOXER-8640AI



BOXER-8623AI



BOXER-8645AI



BOXER-8652AI



BOXER-8253AI

Computing System



UP Boards
& UP System

+ AI Modules



Hailo-8™
M.2 2280



AI CORE X



MXM-ACMA

Embedded Boards



Rugged Mobile Devices & Panel PC



Single Board Computer



[de next-TGUB](#)

86 x 55mm Single Board with 11th Generation Intel® Core™ i7/i5/i3 Processor



[de next-V2K8](#)

86 x 55mm Single Board with AMD Ryzen™ Embedded V2000 Series Processor



[PICO-RAP4](#)

Pico-ITX Board with 13th Gen Intel® Core™ i7/i5/i3 Processor



[PICO-ADN4 REV.B](#)

Pico-ITX Board with Intel Atom® x7000E Series, Intel® Processor N series, and Intel® Core™ i3 Processor N-series



[UP SQUARED 7100](#)

UP Squared 7100 | Developer Board with Intel® N-series SoC



UP XTREME 7100

UP Xtreme 7100 | UPX-ASLN Developer Board with Intel Processor N-series Processor



UP Squared Pro 7100 Edge I Intel N100 Processor

8GB RAM.64GB eMMC
Intel Processor N Series ;
12V DC-in



UP Squared Pro 7000 Edge Series

Intel Atom x 7000E Series / Processor N Series / N305 ;
12V DC-in



UP Squared IoT Edge [Wifi + LTE-Global]

Intel Atom x 7 - E3950;
5V DC in

HMI touch panel



Rugged All in One PC



AHP-1125

12.1" LCD with 500 Nits XGA LED Backlight
Onboard Intel® N3710/N3060 Processor
IP65 Plastic Front Bezel
DC 12V/ DC 9-30V
Fanless Operation



AHP-1154

Intel® Celeron® J1900, 2.0 GHz/ N2807, 1.58 GHz
15" LCD with 450 nits XGA LED Backlight
IP65 Plastic Front Bezel
RS-232/422/485 x 2, RS-232 x 2
Fanless Operation
Support DC 12V/ DC 9~30V



10.1 Inch Capacitive Screen, 10.1 inch 1280*800 HD, G+G Multi Touch Screen

Capacitive multi-touch screen (10 point)

MTK6762,OCTA CORE,1.6GHz

4GB LPDDR4

64GB

802.11 a/ac/b/g/n , 2.4GHz+5GHz

YES

YES

Front 16.0MP + Rear 16.0MP beauty, panorama, night view

GSM:850MHZ/900MHZ/1800MHZ/1900MHZ WCDMA:B1/B5/B8

TD-SCDMA:(B34/B39) ; LTE-TDD:(B38/B39/B40/B41); LTE-FDD:(B1/B2/B3/ B4/ B5/B7/B8/B12/B17/B20/B25/B26/B28/B6 6)

1*Type C

1* Dual sim card slot

1*Micro SD Card (TF Card)

1*3.5mm Earphone Jack

1*Power Button / 1*Volume +/-

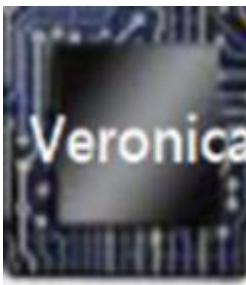
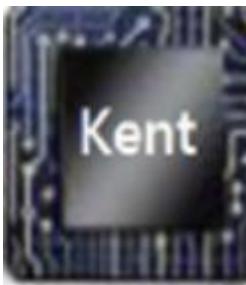
15600mah/9V2.2A polymer battery

IP67 Rugged Waterproof / Anti-Dust and Drop

SBC SoC / SoM



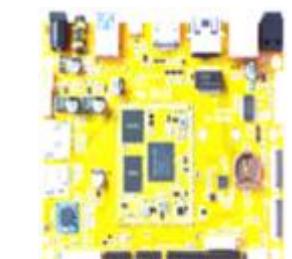
System On Module (1~25 TOPs support)



Embedded Board



Processor: Rockchip RK3588, 4x Cortex-A76 cores @ 2.4GHz + 4x Cortex-A55 cores @ 1.8GHz
NPU: 6 TOPs
RAM: 8GB/16GB
Storage: 32GB/64GB/128GB
Pin out: 5x UART, USB3.0 HOST, 2x USB2.0 HOST, 2x Type-C, 2x MIPI CSI, MIPI DSI, MIPI DPHY, 2x HDMI TX, HDMI RX, DP, GbE, PCIe3.0/2.1, SATA, SDMMC, SDIO, PWM, SPI, CAN, SPDIF, ADC, I2C, I2S, PDM, GPIO, etc.
Operating system: Android 13, Debian 12, Buildroot
Dimensions: 67 x 53 mm
Package: 230-pin, 1.0mm pitch QFN, and 39-pin FPC connector for Camera



NXP i.MX8M Plus Quad Cortex-A53 1.6 GHz RISC Processor
Onboard LPDDR4 2GB / eHMC 16GB (Optional 4GB RAM/ eHMC 32GB)
HDMI 2.0a
GIGE x 2
USB 3.0 x 2, Full size mPCIe x 2, CAN FD x 2 CSI, Micro SD Card Slot x 1, RTC, TPM 2.0
Wide DC Input 9~36V
Wide Temperature -20 °C ~ 70 °C
UL61010 certified; PLC and heavy Industry IEC61000-6-2, IEC61000-6-4, IEC61131-2 qualified
Pre-Install Linux Debian 11; Support Android 13, Win 10 IoT, Yocto
Supports Modbus/ MQTT library/ OPCUA/ Security heat/ GUI/ Machine learning eIQ (by request)



Open-Q™ 8250CS SoM (System on Module)
Based on Qualcomm® QCS8250 System-on-Chip with Android™ 13 OS Develop with the smallest QCS8250 SoM module in world Production ready



System On Module **MEDIATEK**

Application



- High-performance MediaTek Genio 1200 Octa-Core SoC
- Powerful and efficient MediaTek Deep Learning Accelerators 2.0 and Cadence® Tensilica® Vision P6 NPUs supporting up to 4.8 TOPS
- Dual-band Wi-Fi 6 and optional 4G LTE
- 4K hardware accelerated H.265/H.264 video processing
- Dual display and dual MIPI CSI-2 camera support



Software Packages

Support Android 13, Yocto 4.0, and Debian 12. Software customization services that speed up time to market and minimize development costs are also available.

 Android 13.0 EVK	[1.25 GB]	v1.1.0
 Yocto 4.0.17 EVK	[1.33 GB]	v2.1.0



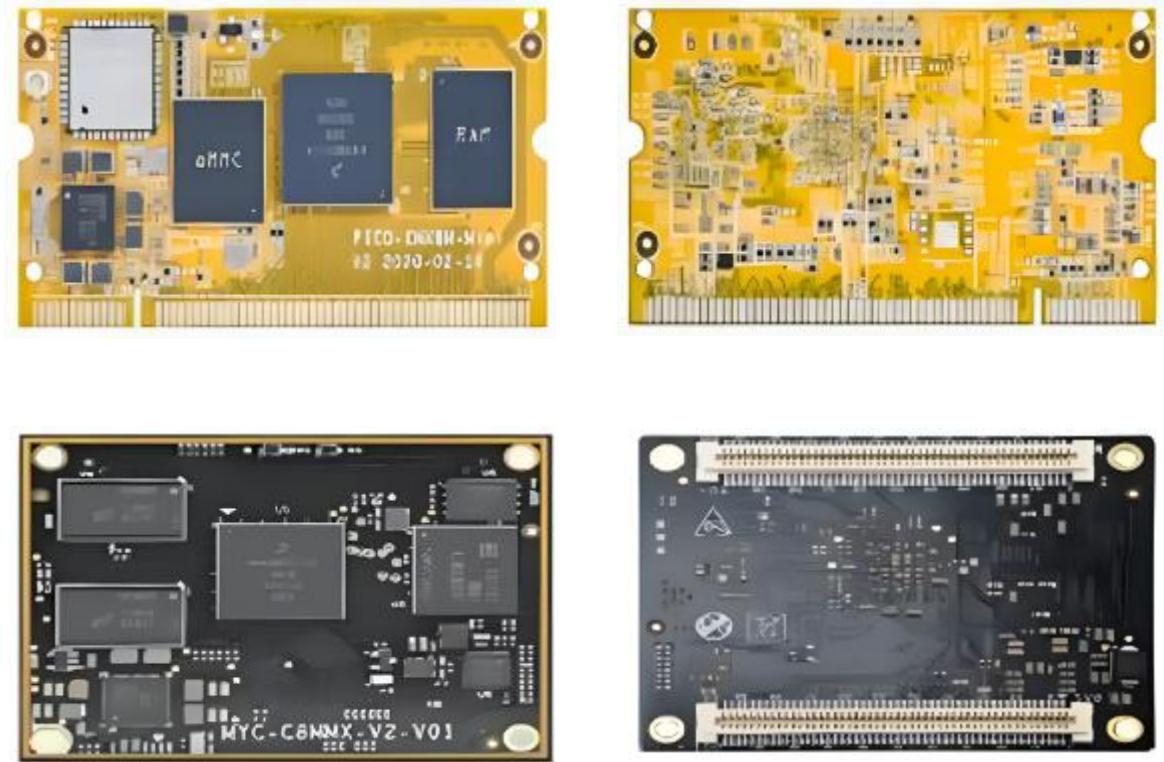
System On Module



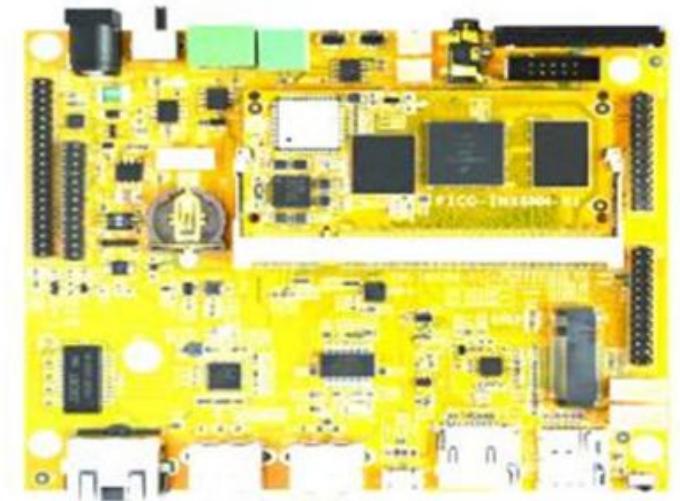
- NXP i.MX 8M Plus Quad Application Processor based on 1.6 GHz Arm Cortex-A53 and 800MHz Cortex-M7 Cores
- A Neural Processing Unit (NPU) Operating at up to 2.3 TOPS
- 2GB/3GB/4GB LPDDR4, 8GB eMMC Flash, 32MB QSPI Flash
- Power Management IC (PMIC)
- 0.5mm pitch 314-pin MXM 3.0 Gold-finger-edge-card Connector
- Supports Working Temperature Ranging from -40°C to 85°C
- Supports Running Linux L5.10.9

Family	Part Number	Configuration	Temperature
i.MX 8M Plus Quad	MIMX8ML8DVNLZAB	4x A53 (1.8Ghz), VPU, NPU, ISP	0°C - +95°C
i.MX 8M Plus Quad	MIMX8ML6DVNLZAB	4x A53 (1.8Ghz), VPU, ISP	0°C - +95°C
i.MX 8M Plus Quad Lite	MIMX8ML4DVNLZAB	4x A53 (1.8Ghz)	0°C - +95°C
i.MX 8M Plus Dual	MIMX8ML3DVNLZAB	2x A53 (1.8Ghz), VPU, NPU, ISP	0°C - +95°C
i.MX 8M Plus Quad	MIMX8ML8CVNKZAB	4x A53 (1.6Ghz), VPU, NPU, ISP, CAN-FD	-40°C - +105°C
i.MX 8M Plus Quad	MIMX8ML6CVNKZAB	4x A53 (1.6Ghz), VPU, ISP, CAN-FD	-40°C - +105°C
i.MX 8M Plus Quad Lite	MIMX8ML4CVNKZAB	4x A53 (1.6Ghz), CAN-FD	-40°C - +105°C
i.MX 8M Plus Dual	MIMX8ML3CVNKZAB	2x A53 (1.6Ghz), VPU, NPU, ISP, CAN-FD	-40°C - +105°C

Formfactor

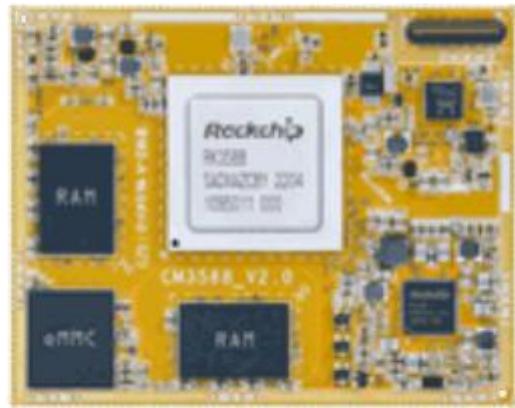


Application



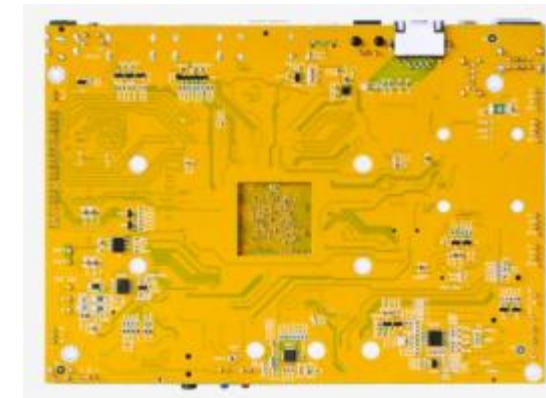
System On Module

Quad Cortex-A76 2.4GHz
+
Quad Cortex-A55 1.8GHz

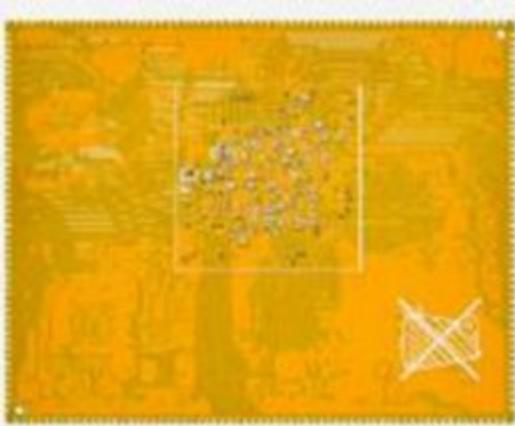
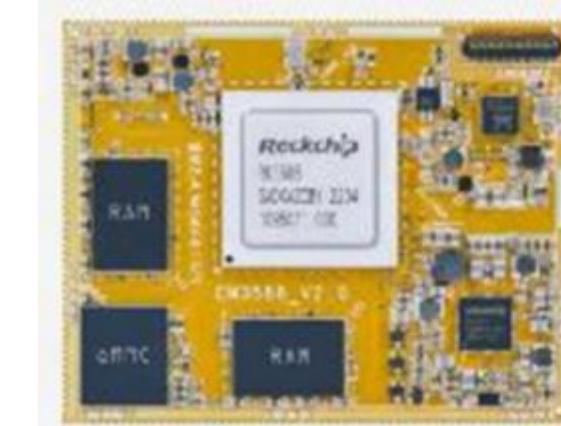
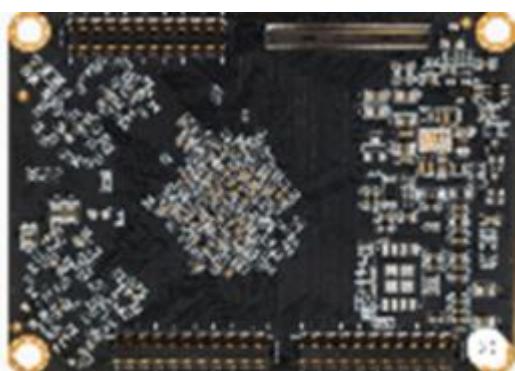
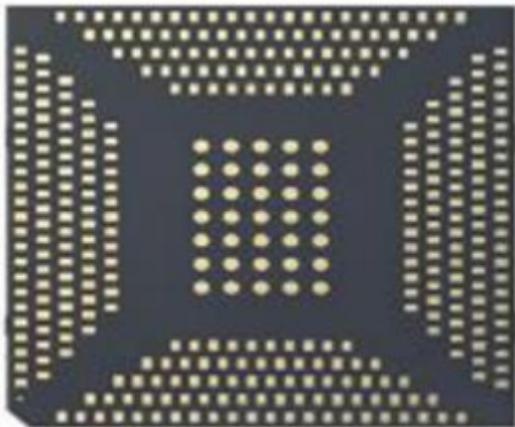


- * Processor: Rockchip RK3588. 4x Cortex-A76 cores @ 2.4GHz + 4x Cortex-A55 cores @ 1.8GHz
- * NPU: 6 TOPS
- * RAM: 8GB/16GB
- * Storage: 32GB/64GB/128GB/256GB
- * Pin out: 5x UART, USB3.0 HOST, 2x USB2.0 HOST, 2x Type-C, 2x MIPI CSI, MIPI DSI, MIPI DPHY, 2x HDMI TX, HDMI RX, DP, GbE, PCIe3.0/2.1, SATA, SDMMC, SDIO, PWM, SPI, CAN, SPDIF, ADC, I2C, I2S, PDM, GPIO, etc.
- * Operating system: Android 14, Debian 12, Buildroot
- * Dimensions: 67 x 53 mm
- * Package: 230-pin, 1.0mm pitch QFN, and 39-pin FPC connector for Camera

Application



Formfactor

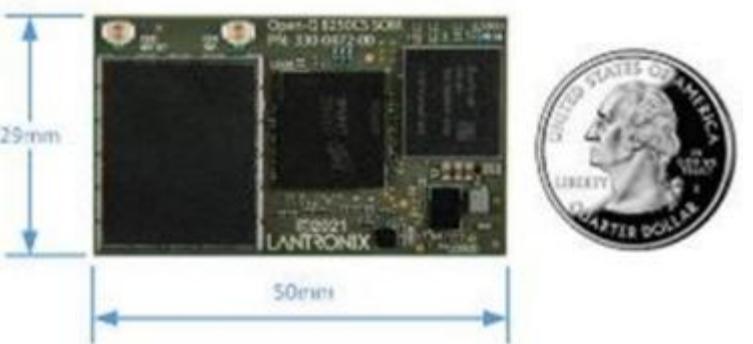


System On Module Qualcomm

Formfactor

Hardware Specifications:

Processors		Qualcomm® 8250CS SoC built on 7nm technology: Kryo™ 585 Octa-core CPU: 1 Kryo Gold prime @ 2.84 GHz + 3 Kryo Gold @ 2.42 GHz + 4 Kryo Silver @ 1.81 GHz Hexagon™ 698 DSP with quad Hexagon Vector eXtensions	
		Adreno™ 650 GPU @ Fmax = 587 MHz Spectra™ 480 Image Signal Processor Adreno™ 665 Video Processing unit	Adreno™ 995 Display Processing unit NPU230 Neural Processing unit SPU240 Secure Processing unit
Memory/Storage		8GB or 16GB LPDDR5 @ 2750MHz, 128GB UFS	
Wireless		802.11ax 2x2 MU-MIMO + Bluetooth 5.1, Bluetooth Milan ready	
Display Interfaces		Up to three 4K displays (1 internal display through DSI and 2 external displays through DisplayPort) 2x 4-lane MIPI DSI D-PHY 1.2, up to 5040 × 2160 @ 60 fps (or 120 Hz in VR mode) + touchscreen support DisplayPort v1.4 on USB Type-C, at 8.1 Gbps/lane, with USB3 and USB2 data concurrency	
Camera Interfaces		3x 4-lane MIPI CSI camera ports + CCI I2C control	Spectra 480 ISP supporting multiple concurrent cameras 64 MP 30 fps ZSL with a dual ISP
Video Performance	Decode	Video decode up to 4K240/8K60. Native decode support for H.265 Main 10, H.265 Main, H.264 High, VP9 profile 2, VP8, and MPEG-2 codecs	
	Encode	Video encode up to 4K120/8K30. Native encode support for H.265 Main 10, H.265 Main, H.264 High, and VP8 codecs	
	Dec & Enc	Concurrent 4K60 Dec and 4K30 Enc	
Audio		Supports WCD938x high fidelity audio codec and WSA881x speaker amp on carrier board Dedicated Hexagon™ audio DSP, SoundWire, MI2S, DMIC, TDM/PCM interfaces for audio devices on carrier board	
High Speed Connectivity		1x PCIe Gen3 2-lane 1x USB 3.1 with support for Type-C + DisplayPort v1.4 with USB SS data concurrency 1x USB 3.1 Type-A	
I/O Interfaces		4-bit SD 3.0, UART, I2C, I3C, SPI, configurable GPIOs, sensor I/O to dedicated Hexagon™ sensor DSP	
Power/Battery		Power management and battery charging solution on SOM	
Operating Environment		Input voltage: 3.7V nominal Operating Temperature: -25 to +85°C	
Form Factor		50mm x 29mm with 2x 100-pin + 1x 120-pin board to board connectors	
Software:			
OS Support		Android™ 13	



Application



System On Module **AMD** **XILINX**

Formfactor

Features

Mechanical Parameters

- Dimensions: 75mm x 55mm (12-layer PCB design)
- Power supply: 5V/0.5A
- Working temp.: -40~85 Celsius (industrial grade)

SoC

Xilinx XC7Z015-2CLG485 (Zynq-7015)

- 766MHz ARM® dual-core Cortex™-A9 MPCore processor (up to 866MHz)
- Integrated Artix-7 class FPGA subsystem with 74K logic cells, 46,200 LUTs, 160 DSP slices
- NEON™ & Single / Double Precision Floating Point for each processor
- Supports a Variety of Static and Dynamic Memory Interfaces
- Four high-speed SerDes transceivers up to 6.25Gbps
- Four PCIe Gen2 hardened, integrated IP blocks

Memory

- 1GB DDR3 SDRAM (512MB*2) / 4GB eMMC / 32MB QSPI Flash (16MB is optional)

Peripherals and Signals Routed to Pins (MYC-C7Z015 pin-out description)

- 10/100/1000M Ethernet PHY / USB PHY / External watchdog / Three LEDs
- One blue LED for power indicator
- One red LED for FPGA program done indicator / One green user LED

Two 0.8mm pitch 140-pin board-to-board expansion connectors bring out below signals:

- One Gigabit Ethernet / One USB OTG 2.0
- Up to two Serial ports (reused from PS_MIO, can also be implemented through PL pins)
- Up to two I2C (reused from PS_MIO, can also be implemented through PL pins)
- Up to two CAN BUS (reused from PS_MIO, can also be implemented through PL pins)
- One SPI (reused from PS_MIO, can also be implemented through PL pins)
- ADC (one independent differential ADC, 16-channel ADC brought out through PL pins)
- One SDIO (PS SDIO 0)
- Bank 13 (PL I/O configurable as up to 18 LVDS pairs and 1 single-ended I/O or 37 single-ended I/O)
- Bank 34 (PL I/O configurable as up to 24 LVDS pairs and 2 single-ended I/O or 50 single-ended I/O)
- Bank 35 (PL I/O configurable as up to 24 LVDS pairs and 2 single-ended I/O or 50 single-ended I/O)
- Bank 112 (4 GTP serial transceivers, 2 reference clock input)

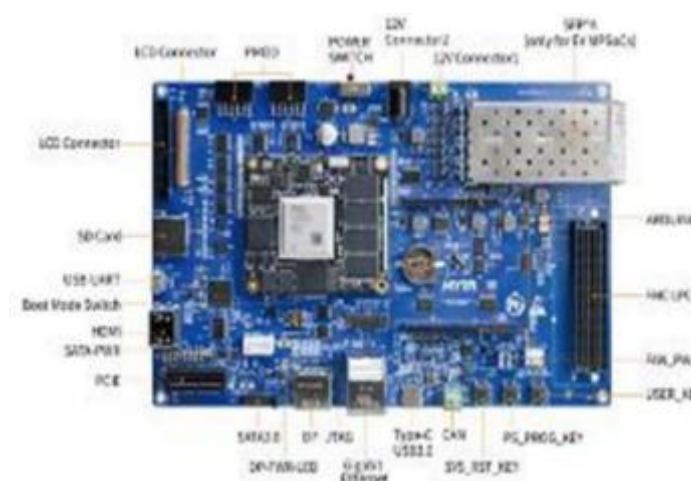
OS Support

- Linux 5.4.0



- Xilinx Zynq UltraScale+ ZU3EG / ZU4EV / ZU5EV MPSoC based on 1.2 GHz Quad Arm Cortex-A53 and 600MHz Dual Cortex-R5 Cores
- 4GB DDR4 SDRAM (64 bit, 2400MHz)
- 4GB eMMC Flash, 128MB QSPI Flash
- Gigabit Ethernet PHY, USB PHY
- Power Module, Clock Generator
- Two Samtec 0.5mm pitch 160-pin Razor Beam High-Speed Headers
- Ready-to-Run Petalinux
- Supports Xilinx Vitis Software Development Platform

Application

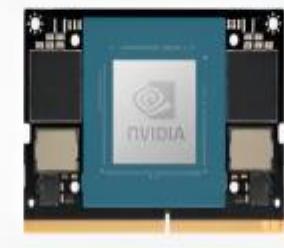
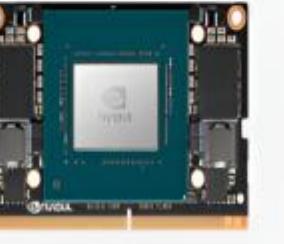


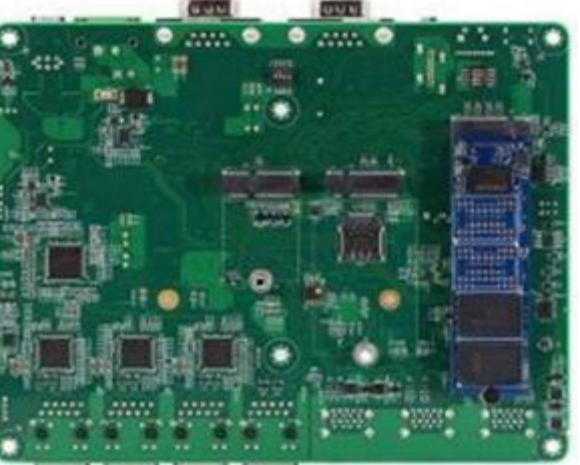
System On Module



NVIDIA.

Application

PERFORMANCE		MAINSTREAM			ENTRY	
↔						
2022	2023	2022	2023	2022	2022	2022
						
Jetson AGX Orin	Jetson Orin NX	Jetson AGX Xavier	Jetson Orin Nano	Jetson Xavier NX	Jetson TX2	Jetson Nano
<input type="checkbox"/> GPU/NPU Specification						
248~275 TOPS	70~100 TOPS	30~32 TOPS	20~40TOPS	21 TOPS	1.26~1.33 TFLOPS	472 GFLOPS
2048GC / 64TC	1792GC / 56TC	512GC / 64TC	512~1024GC / 32TC	384GC / 48TC	256GC	128GC
1.3 GHz (Max)	978MHz (Max)	1.3 GHz (Max)	625 MHz (Max)	1.1 GHz (Max)	1.3 GHz (Max)	912 MHz (Max)
<input type="checkbox"/> CPU Specification						
8C ~ 12C	6C~8C	8C	6C	6C	2C	4C
2.2 GHz (Max)	2~2.2 GHz (Max)	2~2.2 GHz (Max)	1.5 GHz (Max)	1.9 GHz (Max)	1.92 ~ 2.0 GHz (Max)	1.43 GHz (Max)



Edge AI PC & Server



nVIDIA

intel.



Linux



AI@Edge Fanless Embedded AI System with NVIDIA® Jetson AGX Orin™



AI@Edge Fanless Embedded AI System with NVIDIA® Jetson AGX Orin™



AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin™ NX



AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin NX



AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin Nano™



UP SQUARED PRO 710H EDGE

UP Squared Pro 710H Edge | Intel AI solution with Halo module

UP SQUARED PRO 710H EDGE

UP Squared Pro 710H Edge | Intel AI solution with Halo module

- Intel Atom® x7000 RE Series, Intel® Processor N Series, and Intel® Core™ i3-N205 Processors
- Onboard Halo-8™ edge AI processor
- Onboard LPDDR5 Memory, up to 16GB
- Onboard eMMC Storage, up to 128GB
- 2.5GbE x 2 (Intel® I226-T)
- USB 3.2 (Type-A) x 2
- 40-pin GPIO x 1
- DP1.2 x 1/HDMI 2.0b x 1
- RS-232/422/485 x 2
- M.2 2230 E-Key/M.2 2280 M-Key (Optional: M.2 3052 B-Key x 1)
- Onboard TPM 2.0
- 12V~36V DC-in with Phoenix Connector



AI Inference Server, 2U Rackmount, 12/13th Gen CPU

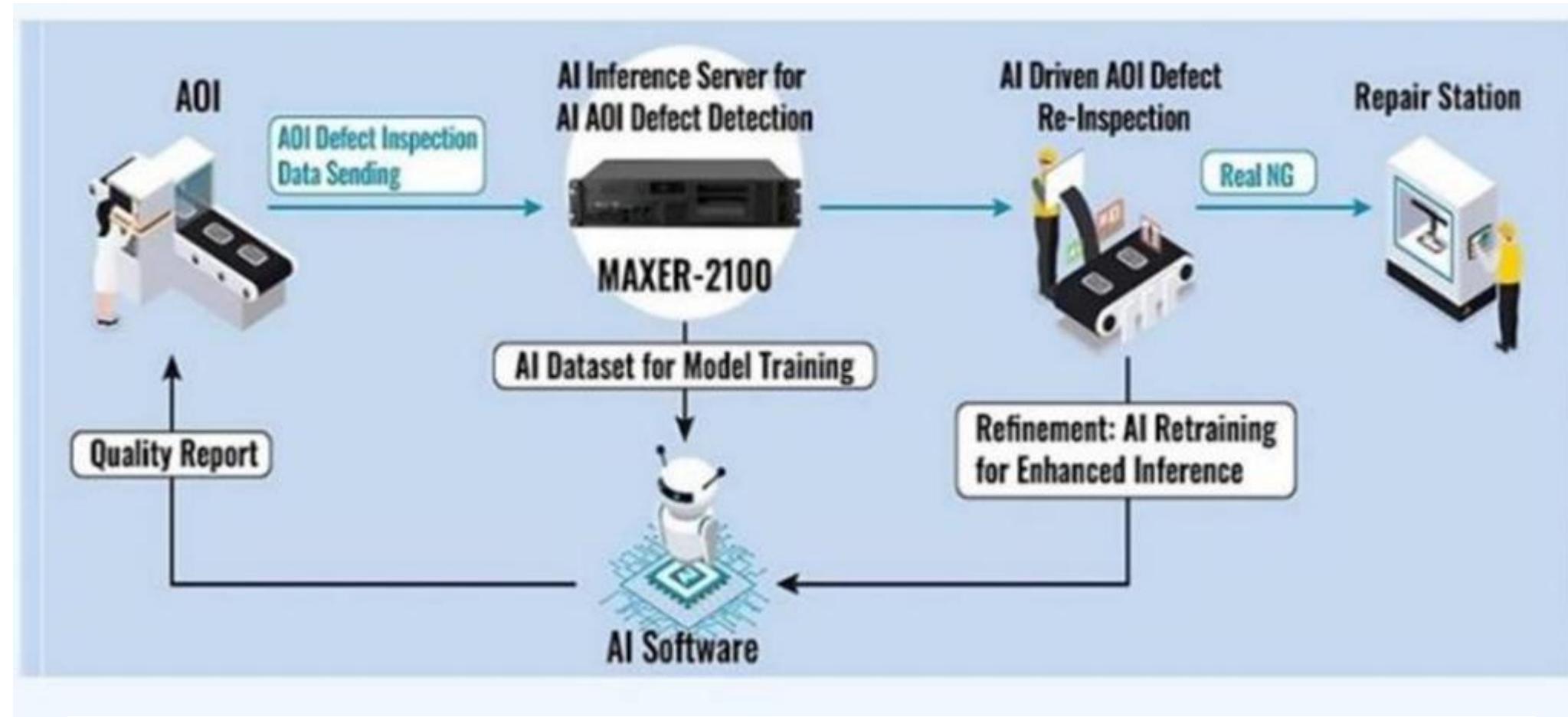
- High-performance for AI inference
- 12/13th Gen Intel® Core™ LGA1700 Socket Processors
- High CPU computing performance: Built-in i9-13900; up to 16x INference supported
- 2U Rack Mount, Front Access I/O Design
- M.2 2242/2280 M-Key x 2
- M.2 3042/3052/2242 B-Key + Micro SIM Slot
- M.2 2230 E-Key x 1
- Onboard TPM 2.0



4U Rackmount Purley Platform Server System, Support Xeon® FPGA CPU | ZEUS-PURO

- 4U Rackmount Server System
- Dual Intel® Xeon® Processor Skylake-SP and Cascade Lake-SP processor
- Intel® Communication Chipset C214
- 12.8GB DDR4-2666MHz Memory (4x4GB PC4-2666V-R, 16GB DDR4-2666MHz)
- 10GbE
- Up to 12x External Mini-SAS SSD (Max 1.8TB) via 12Gb/s SAS
- 2x 4.8" NVMe M.2 SSD x 2 (2.5Gb/s M.2 NVMe 2.0)
- Option: Intel® Optane™ DC Persistent Memory 1.0
- Option: Front I/O Key (PCIe) x 2
- Option: Parallel OEM with Keypad x 3
- 11.1~14.4V DC Input x 1, 100W~150W Output Power

AI Inspection



MAXER-2100

AI Inference Server, 2U Rackmount, 12/13th Gen CPU

- High-performance for AI inference
- 12/13th Gen Intel® Core™ LGA1700 Socket Processors
- High CPU computing performance: Built in i9-13900, up to i9- 13900K supported
- 2U Rack Mount, Front Access I/O Design
- M.2 2242/2280 M-Key x 2
- M.2 3042/3052/2242 B-Key + Micro SIM Slot
- M.2 2230 E-Key x 1
- Onboard TPM 2.0



BOXER-8642AI

AI Edge Fanless Embedded AI System with NVIDIA® Jetson AGX Orin™



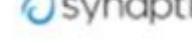
UP SQUARED PRO 710H EDGE

UP Squared Pro 710H Edge | Intel AI solution with Hailo module

YNOT Core

1. SoM 을 이용한 Embedded 보드 개발지원
2. SoM Customizing for 동아엘텍 SPEC
3. SoM + Carrier H/W Customizing
4. AI Edge H/W Customizing
5. AI Engine support (라벨링 / 추론 데이터 학습)

Wireless Connectivity

	WiFi BT module KC / FCC / CE / TELEC Certified	Automotive WLAN Module AQC-100 Certified	WiFi BT Combo IoT with Matter Module KC / FCC / CE / TELEC Certified	Industrial WiFi module KC / FCC / CE / TELEC Certified	Cellular Module IoT / LTE-M / NB-IoT
MAKER	 AMPAK Technology Inc. Advanced Module Packaging Solution	 shinwa A JVC KENWOOD COMPANY	 GSD	 SparkLAN	 Telit Cinterion
ITEM	    	 	     	    	   
MODEL	<ul style="list-style-type: none"> WLAN Module WLAN+BT Combo Module 	<p>Automotive WiFi/BT Module</p> <ul style="list-style-type: none"> LENS BMS supplier with design support 	<ul style="list-style-type: none"> WLAN Module BT Module WLAN+BT Combo Module IoT / IoT with Matter Module 	<ul style="list-style-type: none"> WLAN Module PCle / M.2 / USB interface BT Module WLAN+BT Combo Module IoT Module 	<p>Cellular 5G : mmWave, Sub-6 Cellular LTE : Cat1, 4, 6, 11, 12, 13, 18 Cellular LPWA : LTE-M, NB-IoT</p> <p>Global Major Network certified LG U+ / KT certified</p>

Display - AMOLED, LCD Module

Whatever Size & Spec you need ????

AMOLED / TFT Touch LCD

Flexible Display

Round Watch OLED

Transparent Display

Customized Display



- TFT-LCD Display Module

(1.22" ~ 21.5" , LVDS, eDP, SPI, MIPI, RGB I/F)

- Touch Panel and AD Board Customizable.(CTP & RTP)

- On/In Cell touch compatible

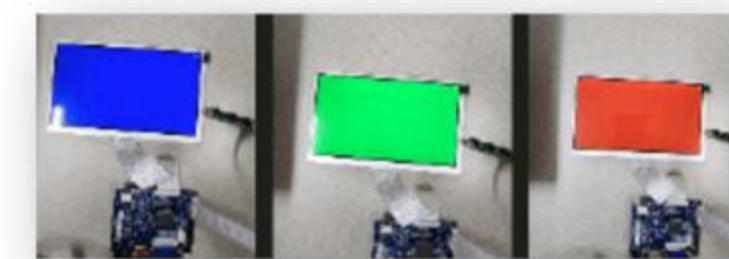
- 1.39" AMOLED MIPI SPI I/F

- 0.96" to 2.8", PMOLED enable On/In cell touch

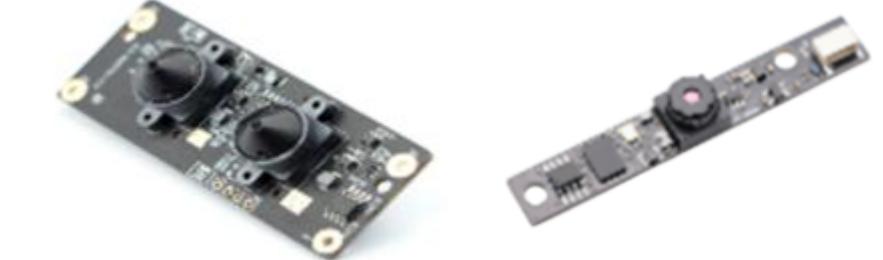
- Customizing Service at Reasonable price

- Best Quality

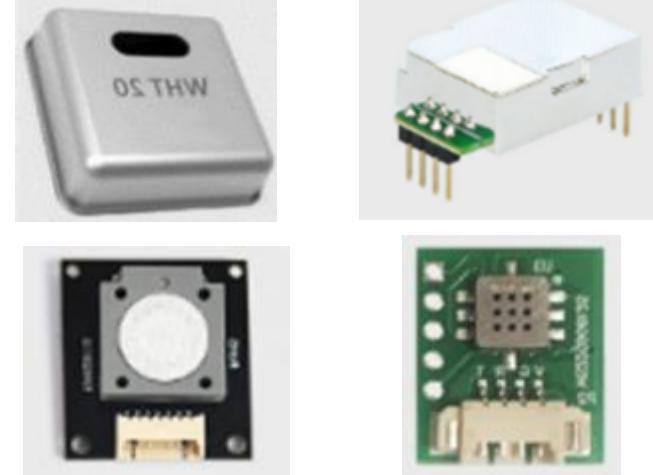
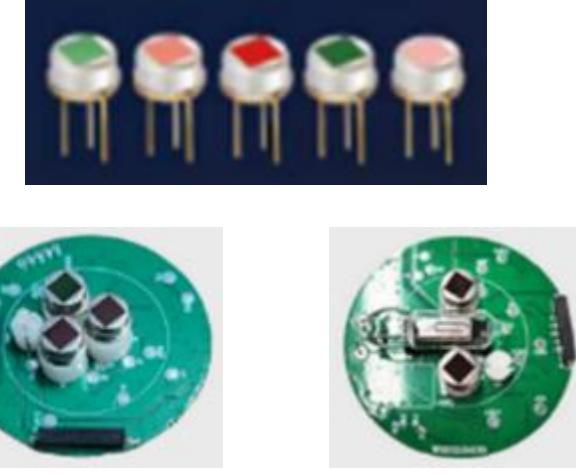
- Customizing service: I/F, Touch IC, Brightness, etc
- Providing QC process info to Customers
- Extra QC (Reliability Test) Available at manufacturer side
- AD board Customizing



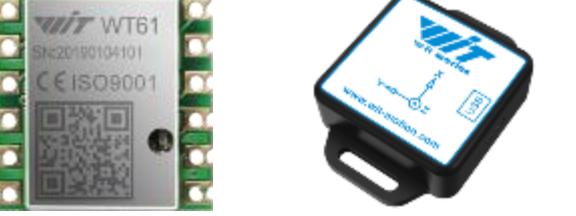
Camera Module

	GMSL	USB 3.0	Stereo																																														
MODEL																																																	
SPEC	<p>Model : SG2-IMX390C-5200-G2A-Hxxx</p> <p>Resolution : 1920H*1080V</p> <p>Frame Rate : 1920*1080@30fps</p> <p>Sensor : SONY 2.12MP IMX390 RGGB</p> <p>Connector : Amphenol Fakra (ZCode)</p> <p>Output data : YUV422@8bit</p> <p>Serializer : MAXIM MAX9295A</p> <p>Sensor Type : Rolling Shutter</p> <p>Operating temp.range : -40°C ~ +85°C</p> <p>Dimensions : 30mm*30mm*22.5mm</p> <p>FOV : HFOV 30°/100°/118.4°/196°</p> <p>Weight : <50g</p>	<table border="1"> <tbody> <tr> <td>Sensor</td><td>1/2.8" SONY IMX307 CMOS</td></tr> <tr> <td>Pixel</td><td>2 Mega Pixel</td></tr> <tr> <td>Most effective pixels</td><td>1920(H) x 1080(V)</td></tr> <tr> <td>Pixel Size</td><td>2.9µm x 2.9µm</td></tr> <tr> <td>Image area</td><td>1937(H) x 1097(V)</td></tr> <tr> <td>Compression format</td><td>MJPEG / YUV2/H.264</td></tr> <tr> <td>Shutter Type</td><td>Electronic rolling shutter</td></tr> <tr> <td>Power supply</td><td>USB BUS POWER</td></tr> <tr> <td>Power consumption</td><td>DC 5V, 260mW</td></tr> <tr> <td>Dimension</td><td>32mm x 32mm</td></tr> <tr> <td>Storage temperature</td><td>-40 — 85 °C</td></tr> <tr> <td>Operating temperature</td><td>30 — 85 °C</td></tr> <tr> <td>Support OS</td><td>WinXP/Vista/Win7/Win8/Win10 Linux with UVC(above linux-2.6.26) MAC-OS X 10.4.8 or later Android 4.0 or above with UVC</td></tr> </tbody> </table>	Sensor	1/2.8" SONY IMX307 CMOS	Pixel	2 Mega Pixel	Most effective pixels	1920(H) x 1080(V)	Pixel Size	2.9µm x 2.9µm	Image area	1937(H) x 1097(V)	Compression format	MJPEG / YUV2/H.264	Shutter Type	Electronic rolling shutter	Power supply	USB BUS POWER	Power consumption	DC 5V, 260mW	Dimension	32mm x 32mm	Storage temperature	-40 — 85 °C	Operating temperature	30 — 85 °C	Support OS	WinXP/Vista/Win7/Win8/Win10 Linux with UVC(above linux-2.6.26) MAC-OS X 10.4.8 or later Android 4.0 or above with UVC	<table border="1"> <tbody> <tr> <td>Model No</td><td>SNS-5MP-DualOV5640</td></tr> <tr> <td>Sensor</td><td>1/4" Omnivision OV5640 CMOS</td></tr> <tr> <td>Pixel</td><td>5 Mega Pixel</td></tr> <tr> <td>Shutter Type</td><td>Electronic rolling shutter</td></tr> <tr> <td>Focus type</td><td>Fixed focus</td></tr> <tr> <td>Interface type</td><td>USB2.0</td></tr> <tr> <td>Dimension</td><td>65MM x 42MM</td></tr> <tr> <td>Storage temperature</td><td>-20°C to 70°C</td></tr> <tr> <td>Operating temperature</td><td>0°C to 60°C</td></tr> <tr> <td>Support OS</td><td>WinXP/Vista/Win7/Win8/Win10 Linux with UVC(above linux-2.6.26) MAC-OS X 10.4.8 or later Android 4.0 or above with UVC</td></tr> </tbody> </table>	Model No	SNS-5MP-DualOV5640	Sensor	1/4" Omnivision OV5640 CMOS	Pixel	5 Mega Pixel	Shutter Type	Electronic rolling shutter	Focus type	Fixed focus	Interface type	USB2.0	Dimension	65MM x 42MM	Storage temperature	-20°C to 70°C	Operating temperature	0°C to 60°C	Support OS	WinXP/Vista/Win7/Win8/Win10 Linux with UVC(above linux-2.6.26) MAC-OS X 10.4.8 or later Android 4.0 or above with UVC
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Sensors1

	Vision Camera / LiDAR	환경 계측 (Environmental)	불꽃 감지 (Flame Detection)
Desc	GMSL / ToF / Depth / RGB Stereo / Vision 2D 3D LiDAR	CO2 / Gas / Dust Temp / Humidity / Mems	Pyroelectric Flame UV Sensor Combination Module
ITEM			
MODEL	<ul style="list-style-type: none">ToF LiDAR – 12~40 meter, 32,000~60,000 scan/sec, 270~360 degree, operating at 80,000 lux, Indoor/OutdoorDepth (87° × 58°, Stereoscopic), RGB (69° × 42°, Rolling Shutter), .3 m to 3 mDepth (87° × 58°, Stereoscopic), RGB (90° × 65°, Global Shutter), .6 m to 6 m	<ul style="list-style-type: none">CO Sensor – 500~1,000ppmCO2 Sensor - 400~10,000ppm, +/-50ppm Temp. & Humidity SensorVOC (Volatile organic compounds, Air-Quality) SensorCombo Sensor Module	<ul style="list-style-type: none">Pyroelectric Flame Sensor – IR Flame Sensor, Range from 3.8um to 5.0um, Long and Wide Range, Low Noise & Anti-vibration InterferenceUV Sensor – 185~260nm wavelength, High-sensitivity and Fast response, Electric SparkModule Sensor – Combination module of IR sensors and IR/UV sensors for enhanced-performance

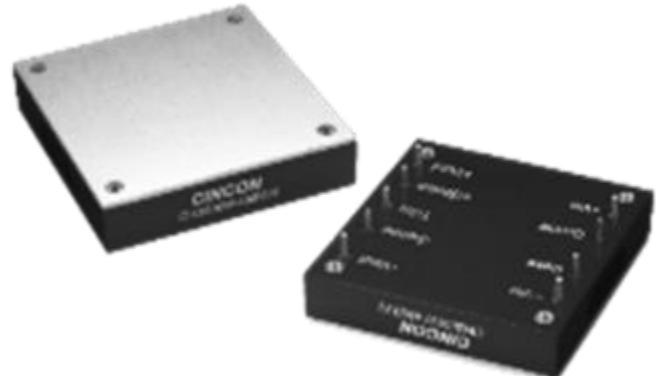
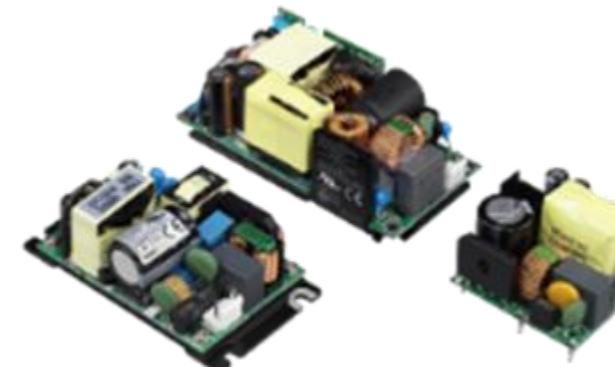
Sensors2

	IMU Sensor	Vibration Sensor
Desc	9-Axis Accelerator/Angular Velocity/ Magnetometer	Vibration Velocity, Displacement & Frequency
ITEM	<p>BUILT-IN SENSORS</p>  <p>Accelerometer Gyroscope Magnetometer</p> 	<p>Vibration Monitoring Sensor</p> <p>Digital Filtering IP68 Protection Real-time Monitoring Early Warning Ideal solution for vibration & impact sensing</p> 
MODEL	<ul style="list-style-type: none">· High Precision Accelerator/ Angle Velocity / Magnetic Field detector· Module & Case type Products for VR device, Robot, UAV, AGV, Platform Stability, Auto Safety System, etc.	<ul style="list-style-type: none">· 3-axis vibration velocity, 3-axis vibration displacement, vibration frequency,· Magnetic or Screw for firm and stable connection· Module & Case type Products for Water pump, Electric Machinery, Engine Vibration Monitoring, Water Tower Monitoring, etc.

Power Block



Power Supply	Category	Wattage Range	Features
DC-DC	Brick Type	33 – 800W	Quarter, half and full bricks 2:1, 4:1, 8:1, 12:1 14:1 18:1 Input range
	M2 grade high reliability	30 to 300W	DIP 1x1,2.05x1.2, Quarter, half bricks Up to 8:1 input range
	Railway	6.6W – 600W	EN 50155, UL 62368-1, UL 60950-1 EN 45545-2, Shock & Vibration
	Low Power	1 - 75W	SIP, SMD, DIP 24, 1x1, 2x1" 1x1.6", 2x2", 2.05x1.2" Up to 18:1 Input Range
AC-DC	ITE & Industrial	4 – 750W	Open frame, Encapsulated, Base-plate cooled (IEC/EN62368-1)
	Medical	15 – 500W	Open frame, Encapsulated, Adapters, Base-plate cooled (IEC/EN 60601-1)



Charger Adapter



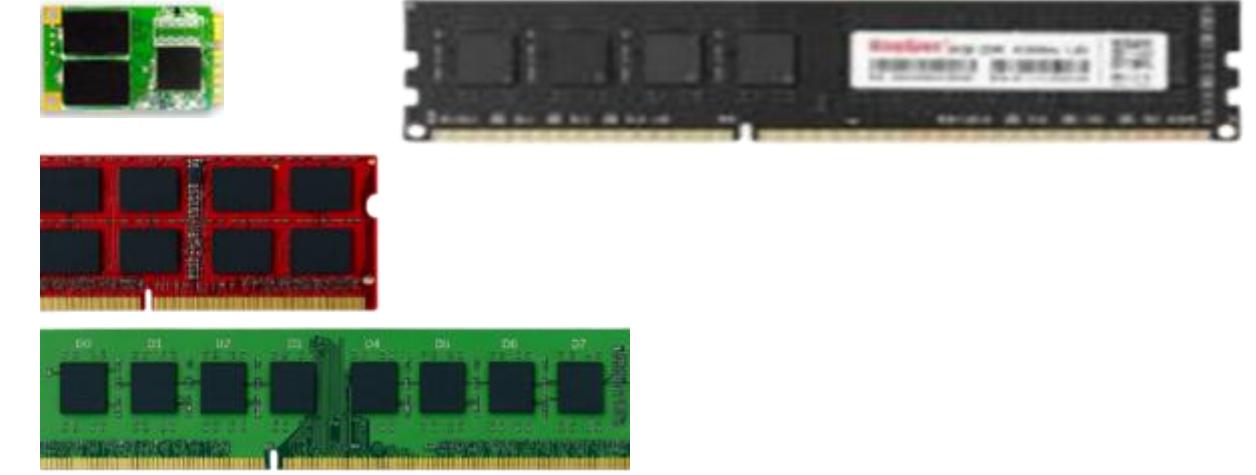
Efficiency $\geq 90\%$



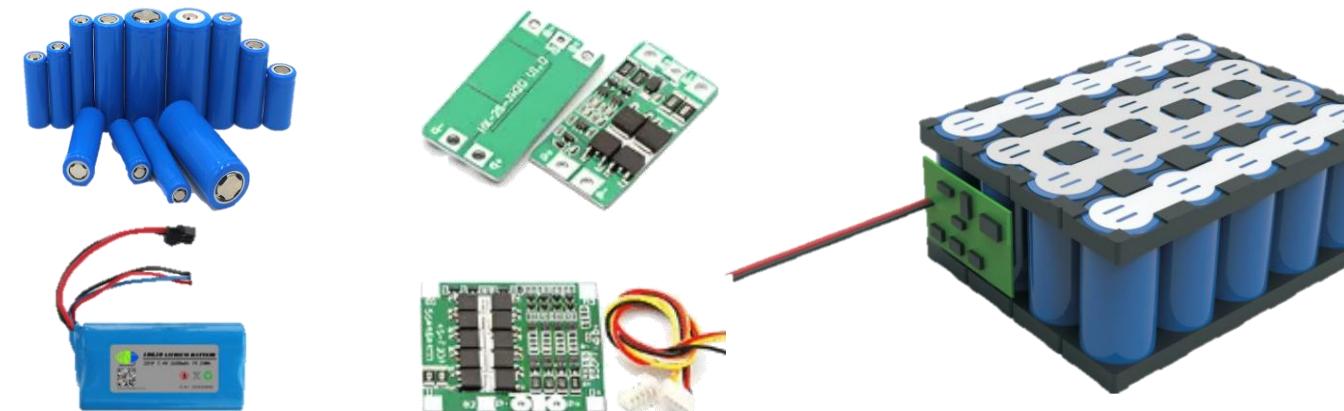
Battery Charger / Power Adapter / LED Power Supply

Input	Voltage		100-240 VAC	Frequency		50-60 HZ
Output	Voltage	28.8 V	Current	8 A	Power max	280 W
Dimension	210 X 108 X 48 MM			Weight		1 kgs / pcs
Certification	UL CUL GS UKCA CE SAA KC PSE 3C					

Memory Storage - SSD / SD card / DRAM / eMMC

	SSD / SDCARD	DRAM Module
SPEC	Industrial SPEC -40 C ~ +85 C 3 year warranty	Industrial SPEC -40 C ~ +85C 5years warranty
ITEM		
MODEL	<ul style="list-style-type: none">SSD - M.2 / SATA / 1.8" / 2.5"SD Card - Micro SD /Embedded EmmcFLASH CARDUSB Disk	<ul style="list-style-type: none">DRAM ModuleDDR 4DDR 5

Battery Pack

	Li-Ion			Li Polymer					
SPEC	18650	3.2 and 3.7V		2100mAh	Extra long	1200 mAh			
		2000 to 4000mah							
		1C to 10C							
	21700	3.7V							
		4000 to 5000mah							
		1C to 5C							
	26650	3.2 and 3.7V							
		2500 to 5000mah							
		1C to 20C							
	32700	3.2V							
		6000mAh							
		1C							
	Others	18350,18500,14500,14650,14450,14430,10440,13380,16500,33138							
Images									
									

Application – 협동로봇 / 서비스로봇

Mobility Control (AP, Edge AI)

- Nvidia Jetson + Carrier board Edge box
- AP + NPU Module (ex : Intel CPU + Hailo NPU)
- Qualcomm / Intel / Rockchip based AP



Display (LCD,OLED) Customizing

- LCD : 1.9" ~ 24"
- OLED : 1.9" ~ 13.3" QXGA



Memory & Storage

- SSD / uSD card
- DRAM module (S0-DIMM / U-DIMM)



Charger & Battery

- DC/DC & AC/DC Converter (Wide Input & Output range)
- AC/DC Adapter/ Barrey Charger Adapter
- Lithium ion / Lithium polymer
- Battery pack (BMS)



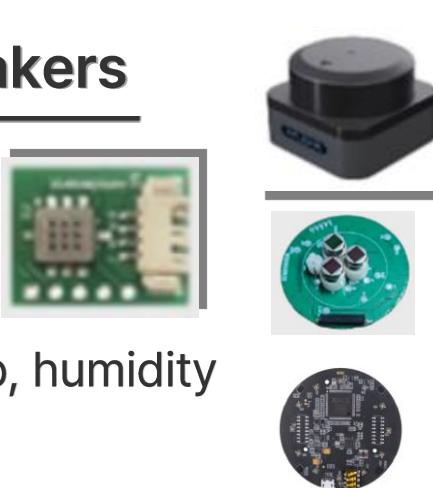
Camera Module

- GMSL / Stereo Camera
- USB3.0 (1080P 30FPS)
- Depth Camera
- 열화상 (Thermal Imaging)



Sensors & MIC/Speakers

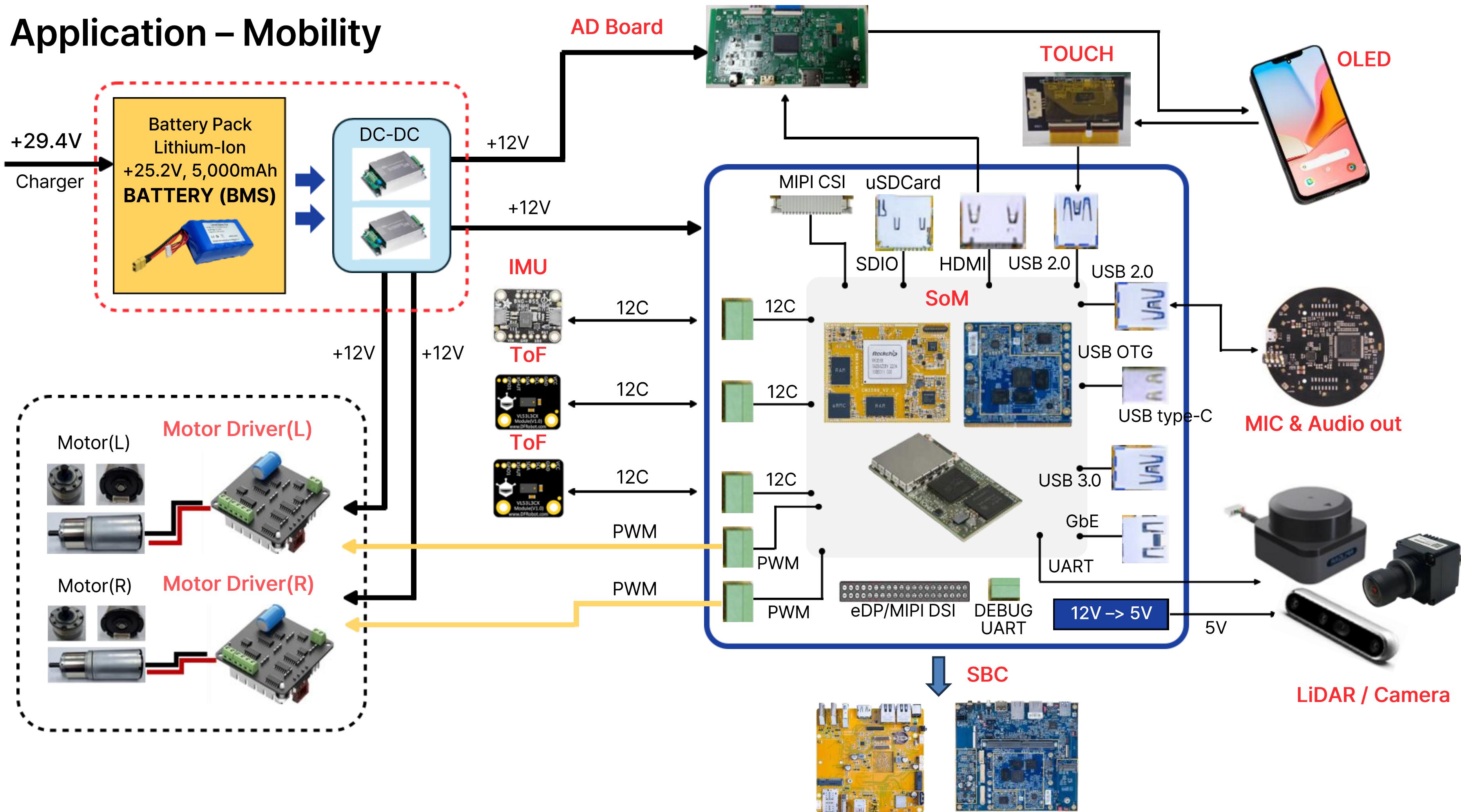
- LiDAR / ToF sensor
- IMU / Vibration sensor
- Flame detection
- VOC / CO2 (Other GAS) / temp, humidity
- MIC/Speaker board



Wireless (WiFi/BT/LTE/5G)



Application – Mobility



Application – 반려로봇

Robot Control

- Intel CPU (Intel Atom® x7000RE Series, Intel® Processor N-series, and Intel®

Core™ i3-N305 Processors) + Hailo NPU Edge box (Hailo-8™ edge AI processor)



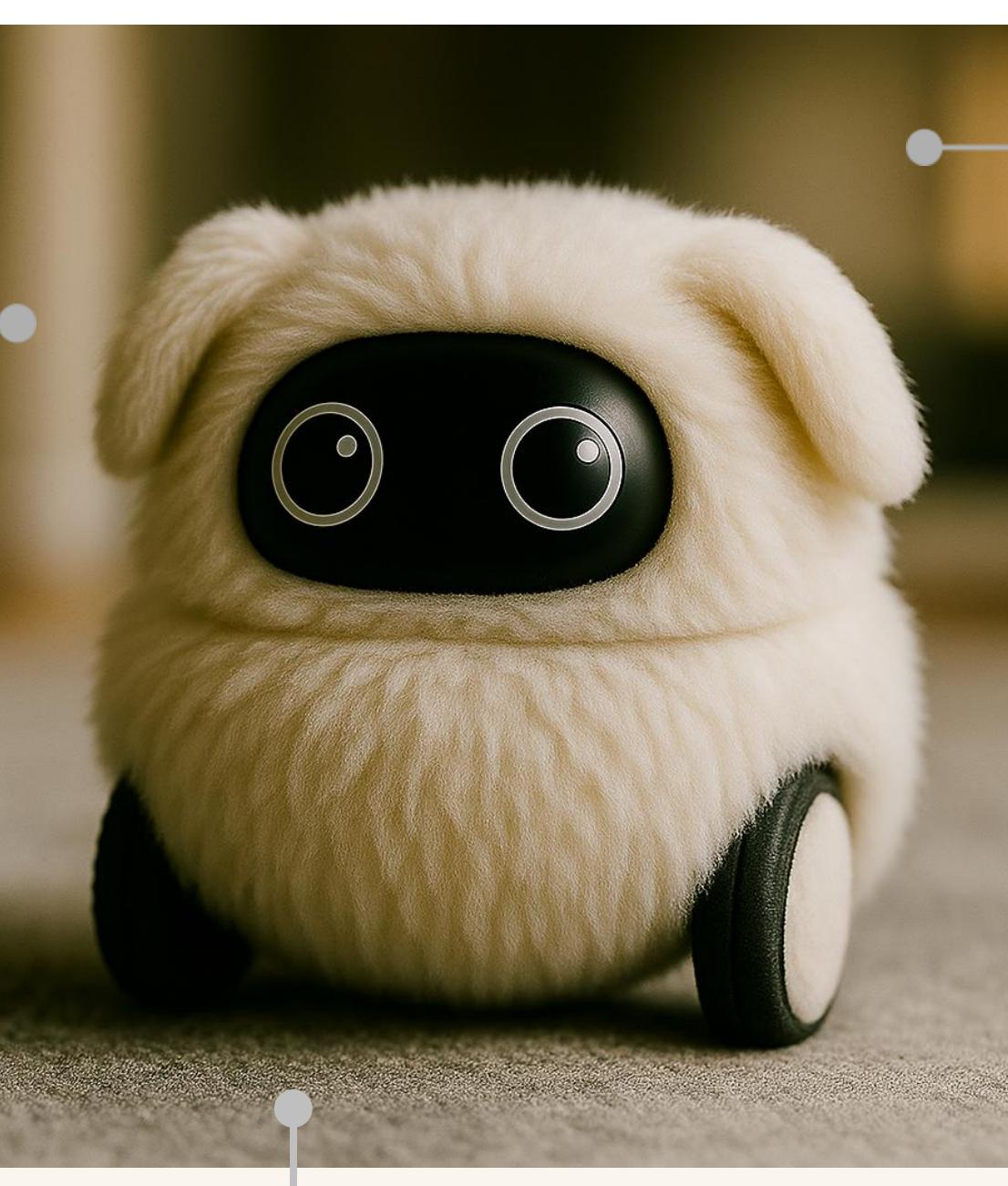
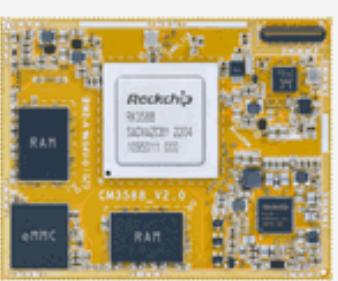
- Jetson Orin NX / AGX Orin



- Processor : Rockchip RK3588. 4x Cortex-A76 cores @ 2.4GHz + 4x Cortex-A55 cores @ 1.8GHz

- NPU : 6 TOPS

Quad Cortex-A76 2.4GHz + Quad Cortex-A55 1.8GHz



Display (LCD) Customizing



- 5" (Round LCD Display)

Memory & Storage

- SSD / uSD card
- DRAM module (S0-DIMM / U-DIMM)

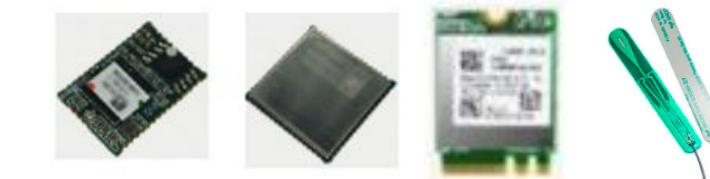


Charger & Battery

- Lithium-ion battery
- AC/DC Adapter/ Barrey Charger Adapter



Wireless (WiFi/BT)



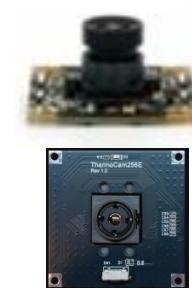
Sensors & MIC/Speakers

- LiDAR / ToF sensor
- IMU / Vibration sensor
- Flame detection
- VOC / CO2 (Other GAS) / temp, humidity
- MIC/Speaker board



Camera Module

- USB3.0 (1080P 30FPS)
- Realsense D430 + HSF
- 열화상 (Thermal Vision)



Application – Humanoid Robot

Robot Control

- de next-RAP8 (Card size)
86mm x 55mm Single Board with
13th Generation Intel® Core™
i7/i5/i3 Processor



- Jetson Orin NX / AGX Orin



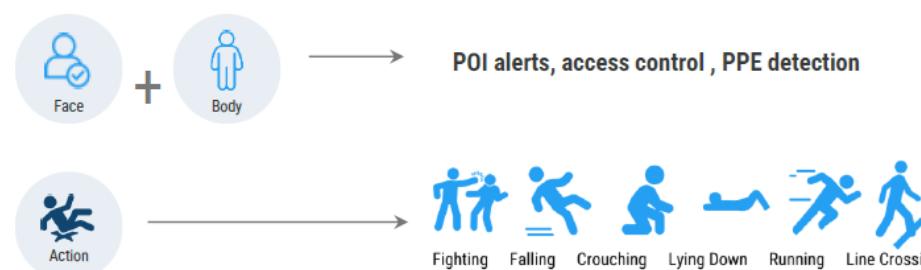
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- NPU :
6 TOPS

Quad Cortex-A76 2.4GHz
+
Quad Cortex-A55 1.8GHz



AI Vision



Camera Module

- GMSL / Stereo / Depth Camera
Depth Algorithm Running on NVIDIA Platform
- USB3.0 (1080P 30FPS)
- Realsense D430 + HSF
- 열화상 (Thermal Vision)



Memory & Storage

- SSD / uSD card
- DRAM module
(SO-DIMM / U-DIMM)



Wireless (WiFi/BT/LTE/5G)



Sensors & Audio Speakers

- IMU / Vibration sensor
- ToF / Depth Camera
- Flame detection
- Cos / Co2 / Dust / temp humidity



Charger & Battery

- Lithium-ion battery
- AC/DC Adapter/ Barrey Charger Adapter



Application – Four legged robot

Robot Control

- GENE-SKU6 3.5" SubCompact Board with Intel® Core™ i7/i5/i3/Celeron® Processor SoC



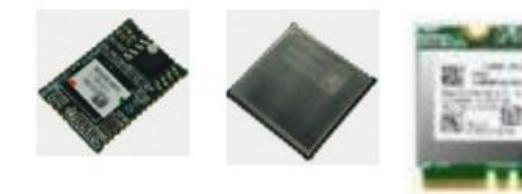
- Jetson Orin NX / AGX Orin



- Processor : Rockchip RK3588. 4x Cortex-A76 cores @ 2.4GHz + 4x Cortex-A55 cores @ 1.8GHz · NPU : 6 TOPS



Wireless (WiFi/BT/LTE/5G)



Memory & Storage

- SSD / uSD card
- DRAM module (SO-DIMM / U-DIMM)



Camera Module

- GMSL / Stereo / Depth Camera Depth Algorithm Running on NVIDIA Platform
- USB3.0 (1080P 30FPS)
- Realsense D430 + HSF
- 열화상 (Thermal Vision)



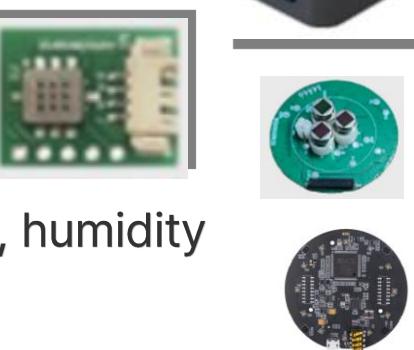
Charger & Battery

- Lithium-ion battery
- AC/DC Adapter/ Barrey Charger Adapter



Sensors & MIC/Speakers

- LiDAR / ToF sensor
- IMU / Vibration sensor
- Flame detection
- VOC / CO2 (Other GAS) / temp, humidity
- MIC/Speaker board



Application – Security robot

Robot Control

- de next-RAP8 (Card size)
86mm x 55mm Single Board with
13th Generation Intel® Core™
i7/i5/i3 Processor

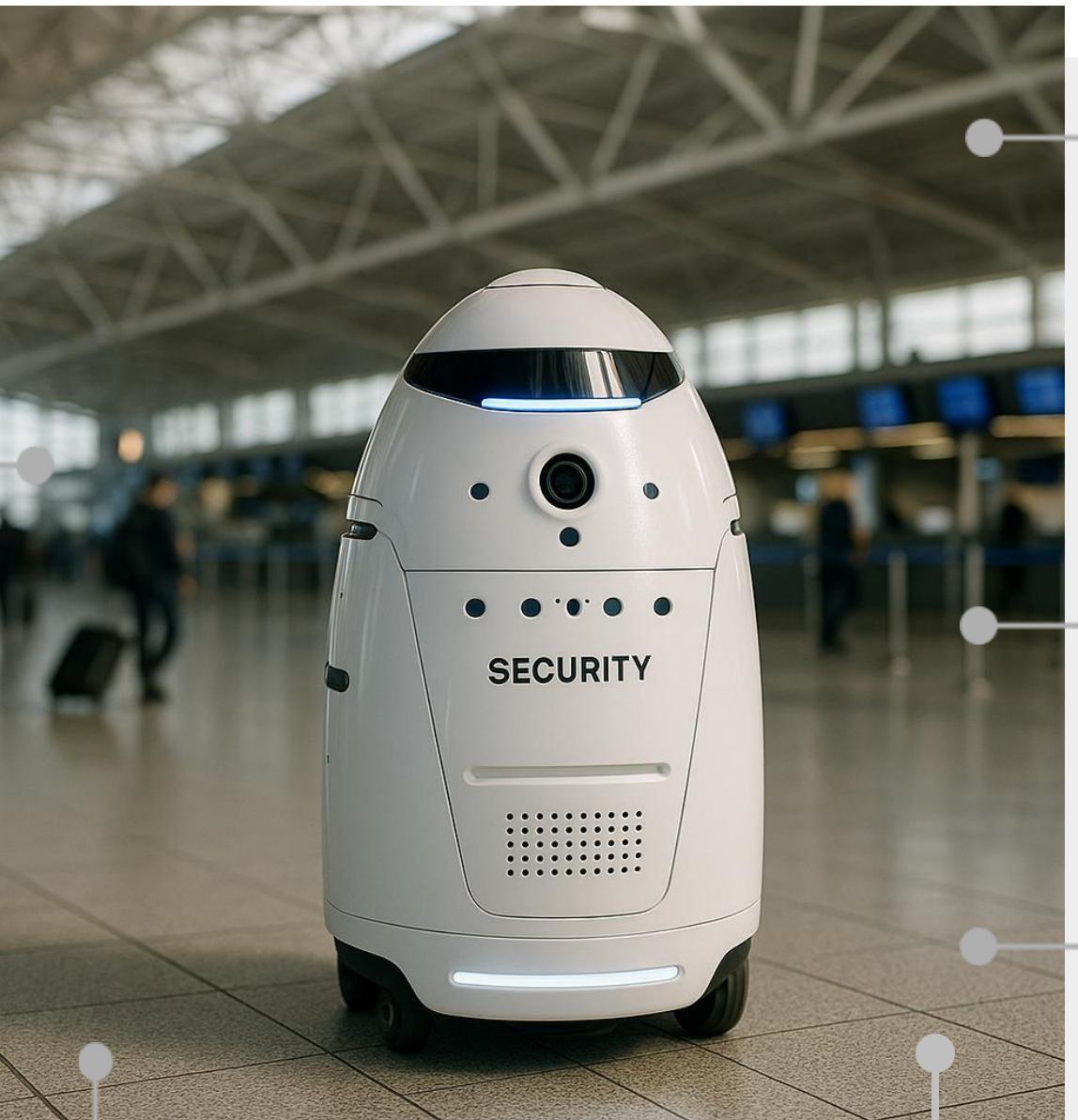


- Jetson Orin NX / AGX Orin

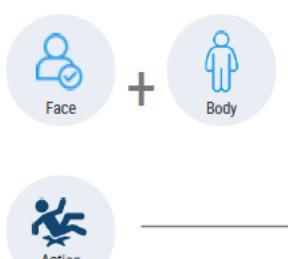


- Processor : Rockchip RK3588. 4x Cortex-A76 cores @ 2.4GHz + 4x Cortex-A55 cores @ 1.8GHz
- NPU : 6 TOPS

Quad Cortex-A76 2.4GHz
Quad Cortex-A55 1.8GHz



AI Vision



POI alerts, access control, PPE detection



Fighting Falling Crouching Lying Down Running Line Crossing

Camera Module

- USB3.0 (1080P 30FPS)
- Realsense D430 + HSF
- 열화상 (Thermal Vision)



Wireless (WiFi/BT/LTE/5G)



Charger & Battery

- Lithium-ion battery
- AC/DC Adapter/ Barrey Charger Adapter



Sensors & Audio Speakers

- IMU / Vibration sensor
- ToF / Depth Camera
- Flame detection
- Cos / Co2 / Dust / temp humidity



Memory & Storage

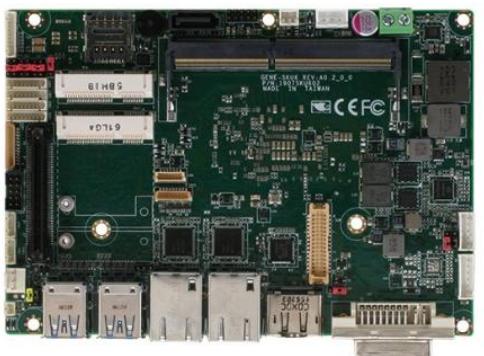
- SSD / uSD card
- DRAM module (SO-DIMM / U-DIMM)



Application – Human robot hand

Robot Control

- GENE-SKU6 3.5" SubCompact Board with Intel® Core™ i7/i5/i3/Celeron® Processor SoC



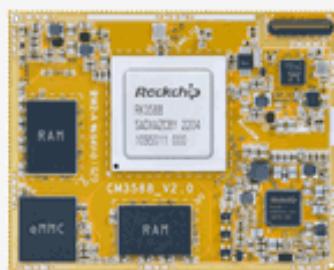
- Jetson Orin NX / AGX Orin



- Processor : Rockchip RK3588. 4x Cortex-A76 cores @ 2.4GHz + 4x Cortex-A55 cores @ 1.8GHz

- NPU : 6 TOPS

Quad Cortex-A76 2.4GHz + Quad Cortex-A55 1.8GHz



HUMAN ROBOT HAND



Robot Motion Controller

Wireless (WiFi/BT/LTE/5G)



Power Supply

- Power Supply & Adapter

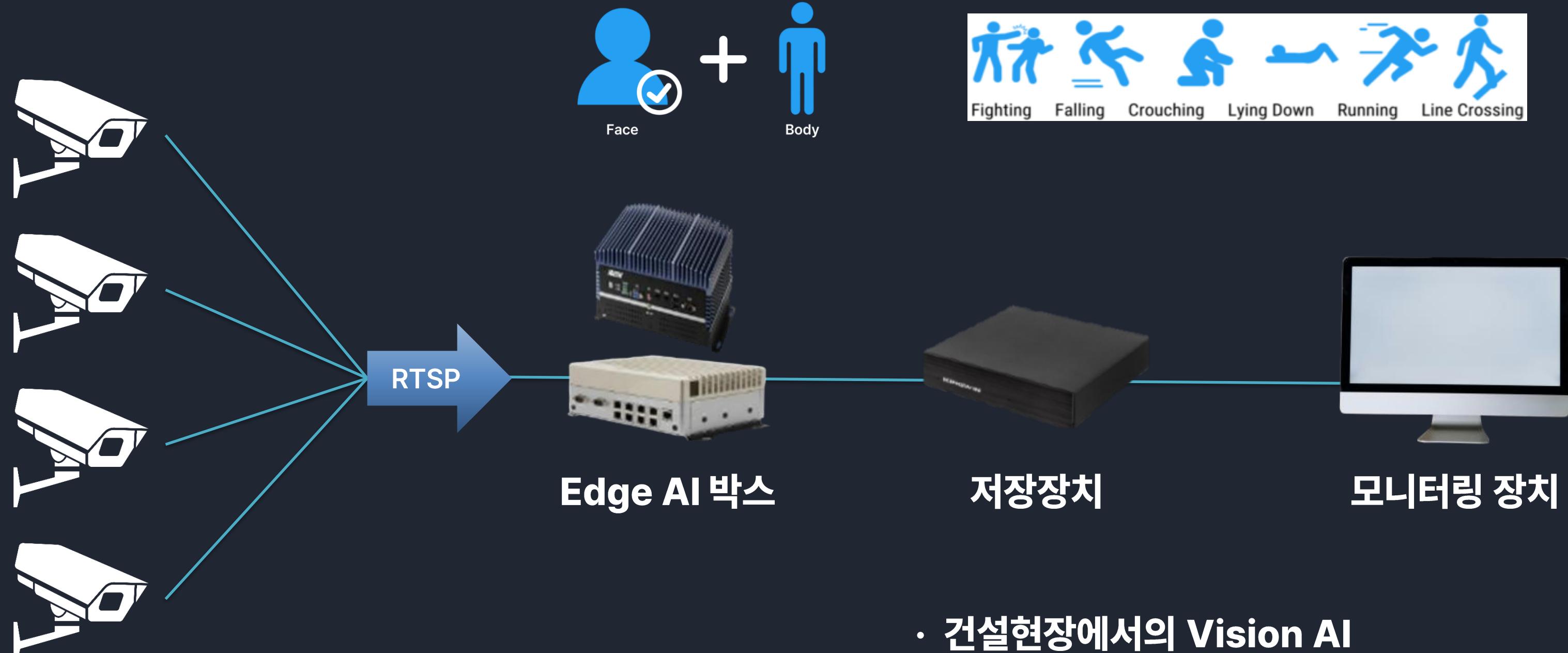


Memory & Storage

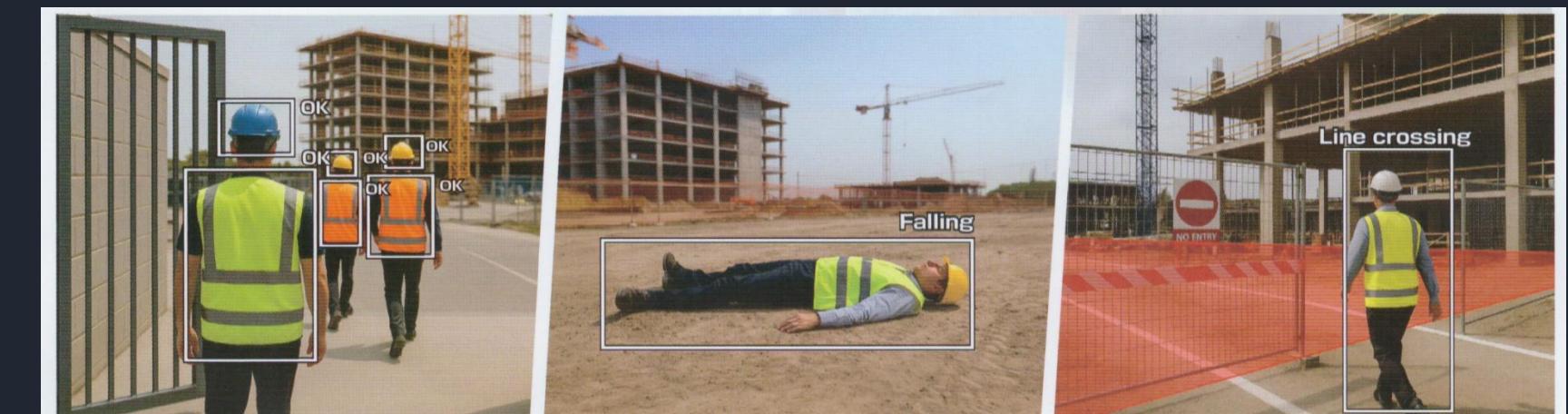
- SSD / uSD card
- DRAM module (SO-DIMM / U-DIMM)



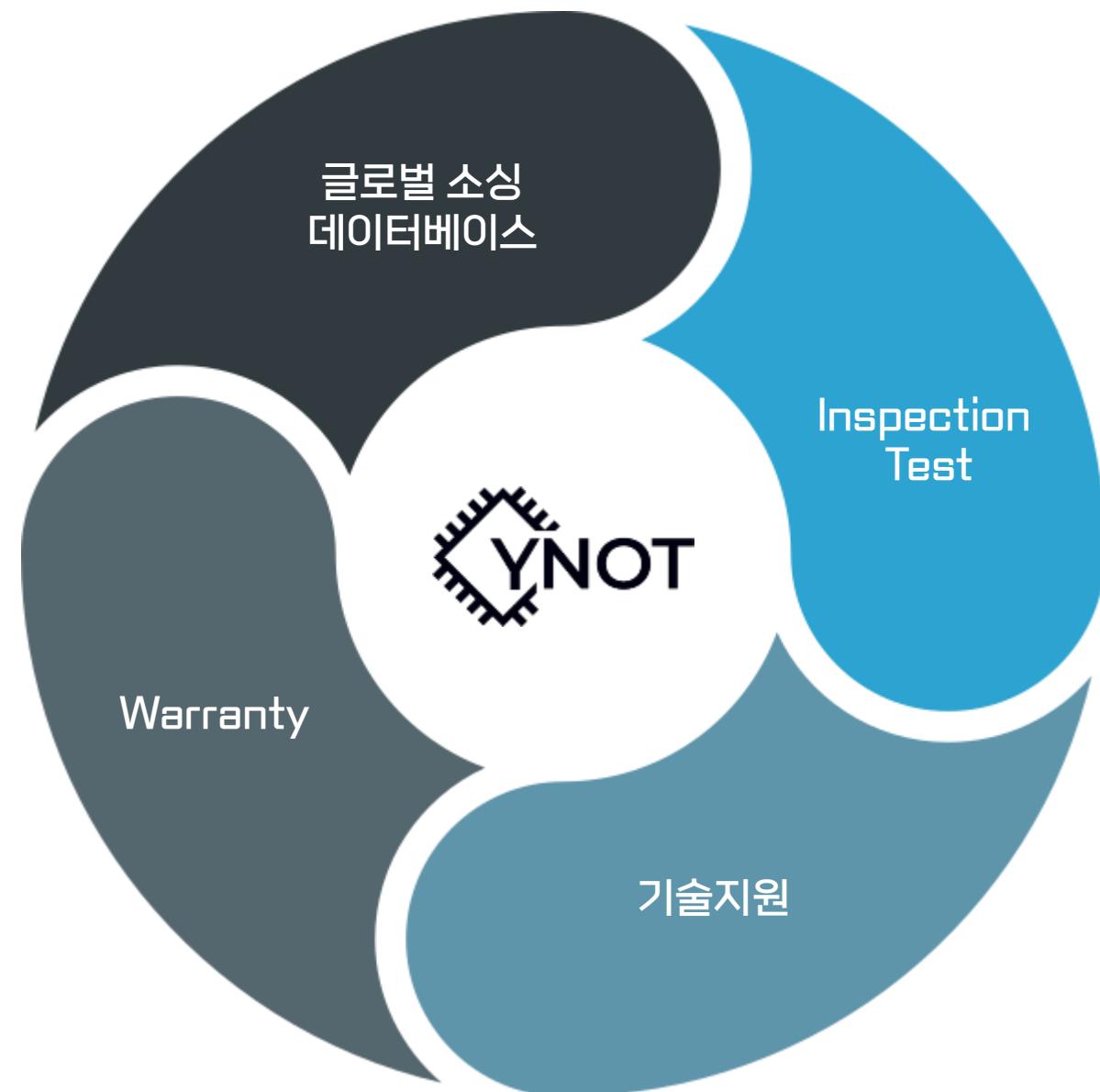
Vision AI



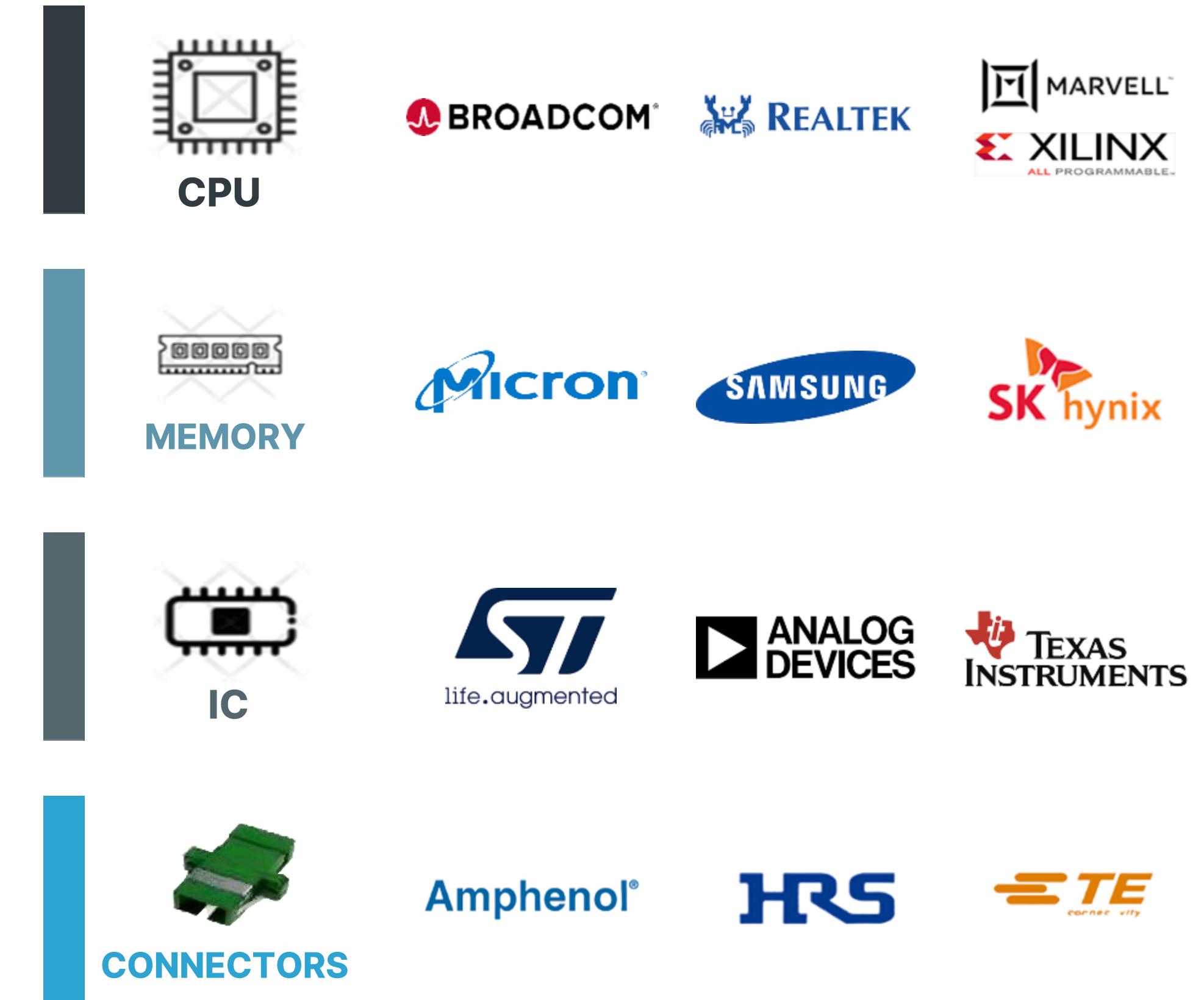
• 건설현장에서의 Vision AI



단 납기 턴키 소싱 (Sourcing)



- 필요한 만큼만
- 원하는 가격에
- 원하는 품질로
- 생산 스케줄에



AP Chipset Level Design



• SOC Roadmaps for POS/IPC/AIoT



Embedded H/W & S/W ODM Service

1. Hardware Development Service

- MPU/MCU based Hardware Design (Renesas/Qualcomm/NXP/Rockchip/Nvidia)
- **Hardware Customizing Design Service (free)**
- PCB Drawing & Mechanical Design service
- Support Certification
- Process(KC/CE/FCC/TELEC)

2. Software Development Service

- Development Environment Support
- Device Driver Development Support
- Application Development Support
- Supported OS(Android/Linux/RTOS)

3. Project Management Service

- HW, SW Development Outsourcing
- Support Mass Production
- Developer Management
- Schedule Management

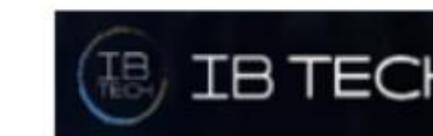
Customers

We are serving over 100+ customers including key players in the markets.

AUTOMOTIVE & CHARGER



ROBOTIC / MOBILITY / AI



Customers

We are serving over 100+ key players in the markets.

NETWORK & INDUSTRIAL Automation



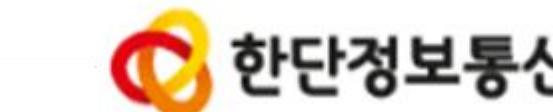
MEDICAL & HEALTH CARE



Customers

We are serving over 100+ customers including key players in the markets.

Broadband Entertainment & Payment



SMART HOME & AIoT



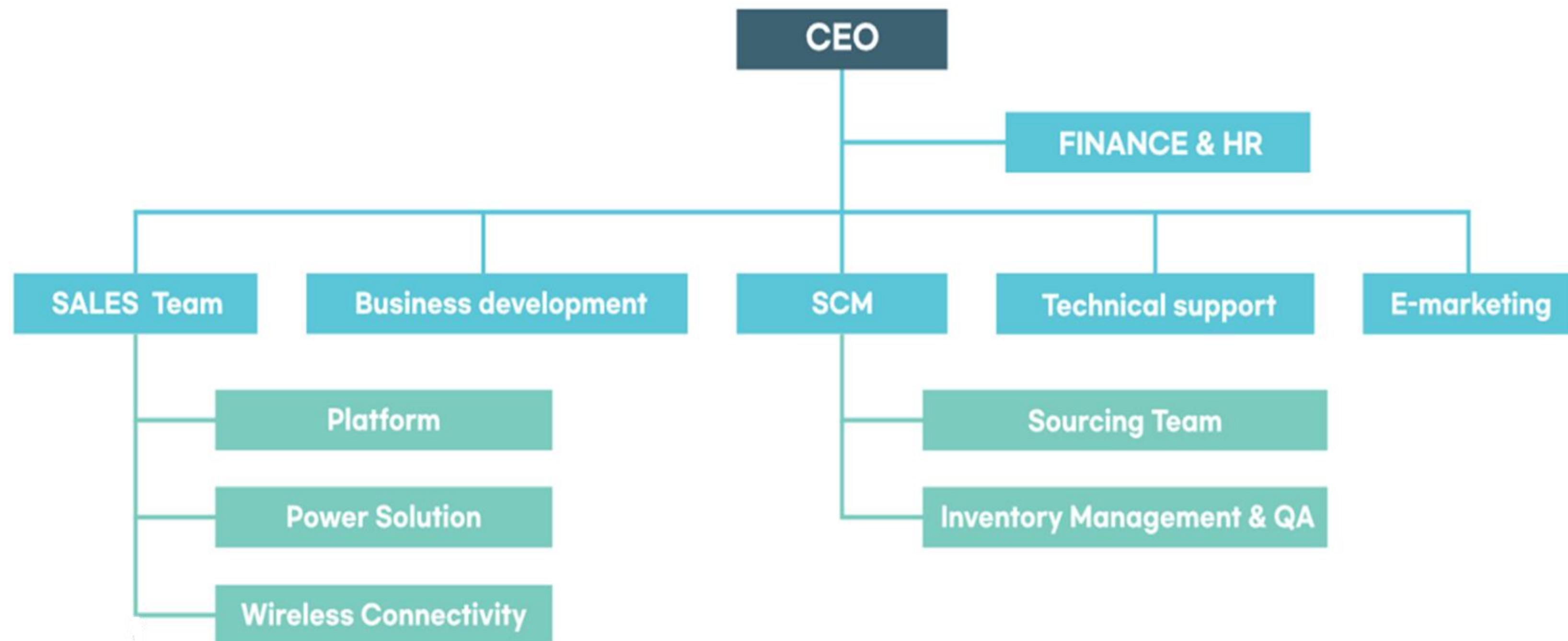
Partners



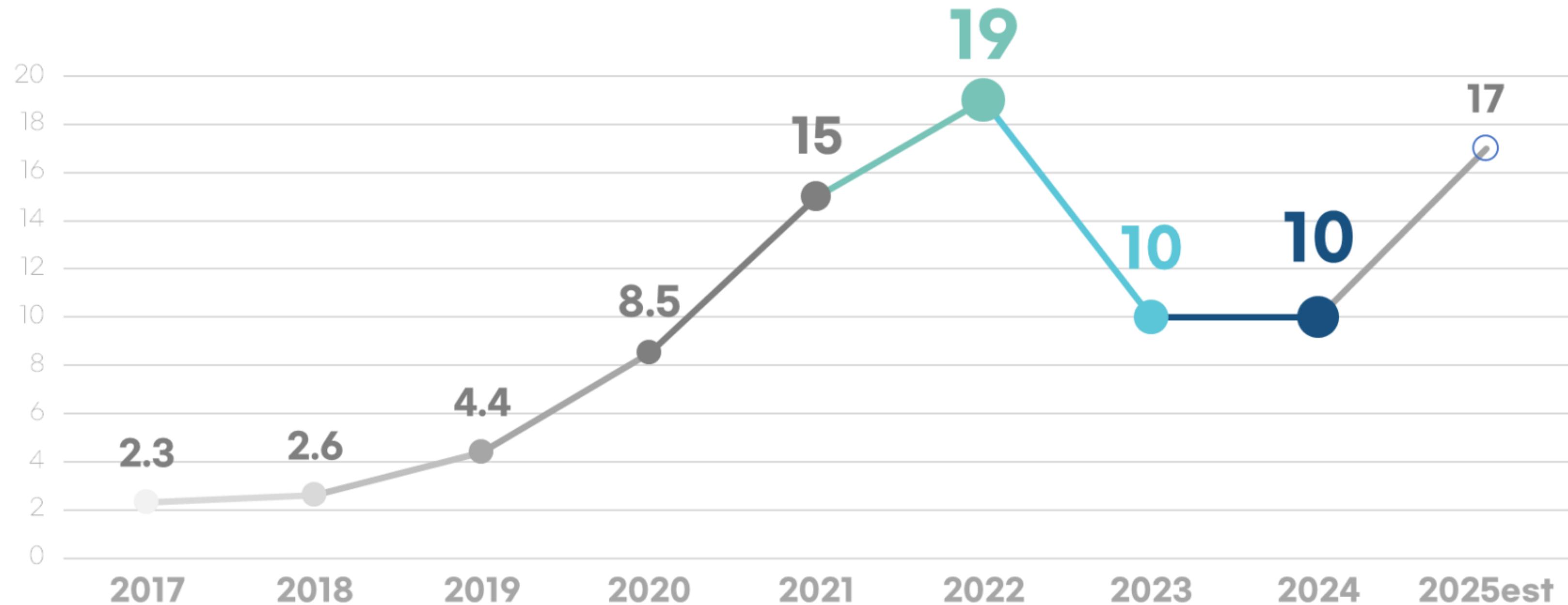
Thundercomm



Organization



Growth Trend





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