

2026

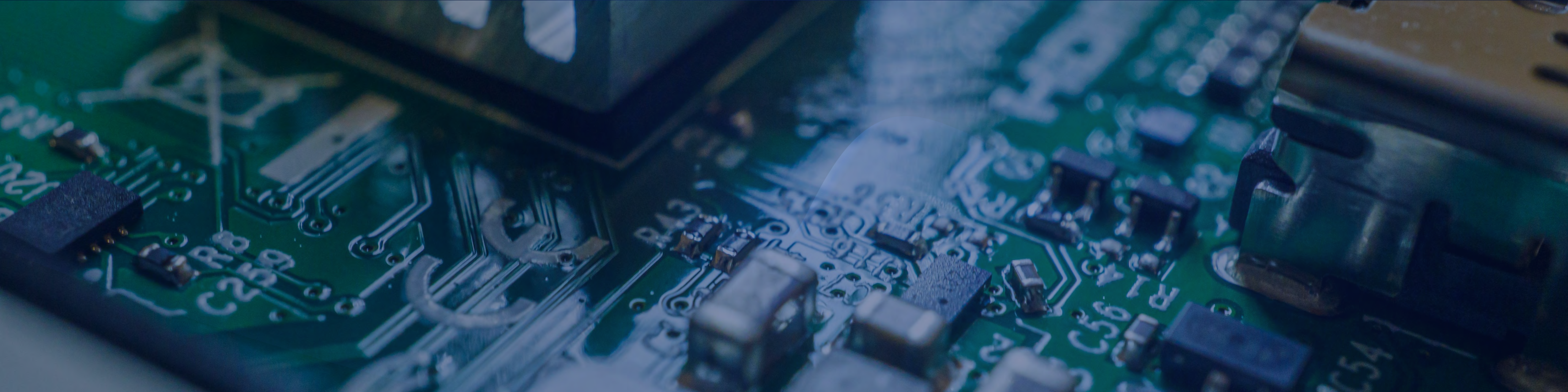


No.1
임베디드 토탈
솔루션 파트너

상상을 혁신으로,
당신의 비즈니스에 흔들림 없는 코어(Core)를 구축합니다.

COMPANY PROFILE

CONTENTS



CHAPTER 01
회사 소개

CHAPTER 02
Solutions

CHAPTER 03
Partners

CHAPTER 4
Products

CHAPTER 5
Applications



▶ 회사개요

CEO 최현영 Jake Choi
설립일 Nov, 2015
Capital 300,000 USD
Revenue 15.50M USD
H.Q location Seoul , South Korea

▶ 조직구성

CEO / Finance & HR
Sales / Platform - Power Solution - Wireless Connectivity
Business Development
SCM / Sourcing Team - Inventory Management & QA
Technical Support
Design



Office & RND



Show Room 1



Show Room 2



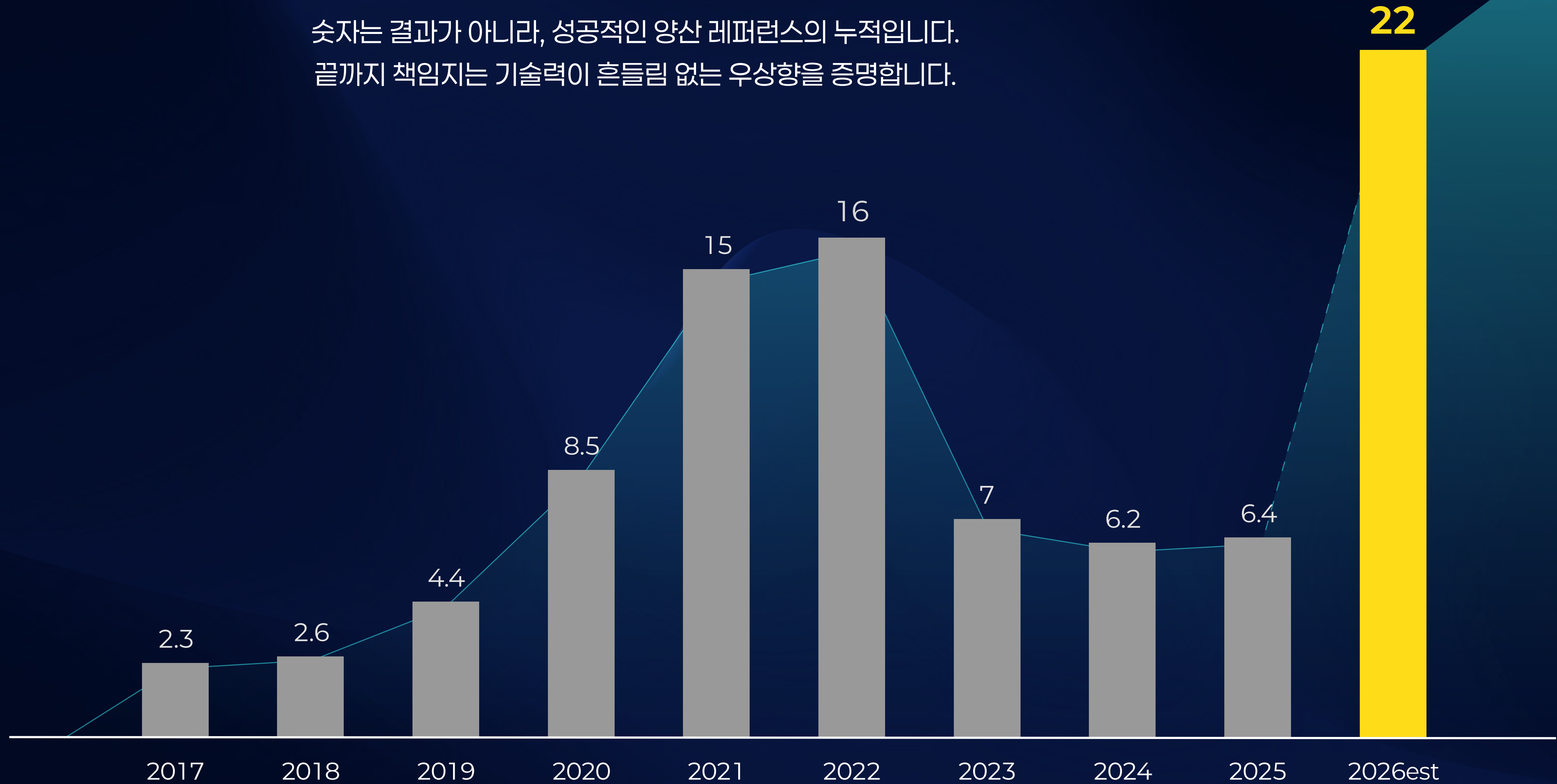
In-house Warehouse

GROWTH TREND

숫자는 결과가 아니라, 성공적인 양산 레퍼런스의 누적입니다.
끝까지 책임지는 기술력이 흔들림 없는 우상향을 증명합니다.

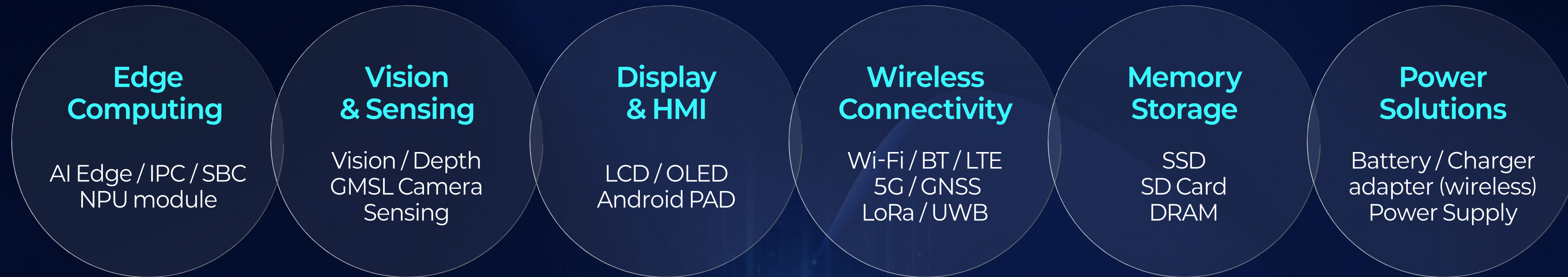
▶ 2026년 예상
최고매출 달성 전망
220억원

단위 : 십억원
■ 매출액

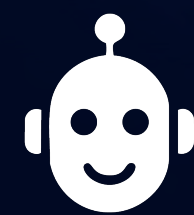


HARDWARE ECO-SYSTEM

주요 부품의 모듈화를 통해 완벽한 Application 설계를 지원합니다.



Y-NOT 설계지원
Total Solution Provider



Robotics



Smart Factory



Smart Healthcare



Smart Mobility



AIoT Smart City

H/W & S/W ODM 통합 설계

단순 제조를 넘어, 고객의 아이디어를 가장 빠르고 완벽하게 '양산 가능한 코어'로 통합 설계합니다.

하드웨어 설계

Hardware Engineering

- MPU / MCU 기반 하드웨어 설계 (Renesas/Qualcomm/NXP/Rockchip/Nvidia)
- **Customizing Design Service**
- PCB 라우팅 및 기구(Mechanical) 설계
- 국내외 규격 인증 진행 지원 (KC, CE, FCC 등)

소프트웨어 최적화

Software & OS Porting

- 최적화된 소프트웨어 개발 환경 구축
- 디바이스 드라이버(Device Driver) 개발 지원
- 고객사 어플리케이션(Application) 개발 지원
- 다양한 OS 환경 지원 (Android, Linux, RTOS)

프로젝트 및 양산 리딩

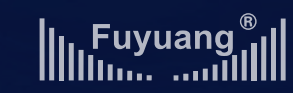
Project Management

- H/W 및 S/W 개발 아웃소싱 통합 리딩
- Mass Production 연계 지원
- 전담 개발자 배정 및 체계적인 인력 관리
- 철저한 프로젝트 개발 일정 관리

와이낫의 통합 ODM 서비스는 고객의 **개발 리스크**를 **최소화**하고, 성공적인 양산 일정을 앞당깁니다.

GLOBAL PARTNERSHIP

글로벌 벤더들과의 견고한 파트너십이 곧 Y-NOT의 설계 및 수급 역량입니다.



PROVEN BY LEADERS

100여 개 이상의 글로벌 리딩 기업들이 와이낫의 안정성과 기술력을 선택했습니다.

AUTOMOTIVE & CHARGER

HUMAX

CHAEVI

SEBANG

DH AUTOWARE

Mobile Appliance

CHEMTRONICS

MEDIA HILLS

STARKOFF

CARVI

HWA YOUNG

kyungshin

DRIMAES

ROBOTIC / MOBILITY / AI

ROBOTIS

ing Robotics

everybot

IB TECH

Polaris3D

AIDIN ROBOTICS

Hanwha Aerospace

COGA robotics

SK magic

HYODOL

신성델타테크

DREAMTECH
SOLUTIONS COME FROM DREAMTECH

HWA YOUNG

엘티메트릭

CELLPLUS KOREA

suprema

NETWORK & INDUSTRIAL

HFR, Inc.
for Mobile Internet

ubiQuoss

DASAN Networks

동아엘텍
DONG A ELTEK

MSELTEK

WINTECH SYSTEM
VICTORY OF TECHNOLOGY

SOLID SOLiD

Lotvacuum
Leader Of Technology Vacuum

SOLUM

A TEC T&

KCT Inc.
KOREA COMPUTER TERMINAL

SIN WOO ENG CO., LTD
SINWOO

SAtech

HUINS
Human Intelligent System

I DO IT
Co., Ltd.

PROVEN BY LEADERS

100여 개 이상의 글로벌 리딩 기업들이 와이낫의 안정성과 기술력을 선택했습니다.

MEDICAL & HEALTH CARE



Broadband Entertainment & Payment



SMART HOME & AIoT



hansung
sysco

BOXER Series



BOXER-8658AI



BOXER-8640AI



BOXER-8623AI



BOXER-8645AI



BOXER-8652AI



BOXER-8253AI

Jetson Orin™ Series



AiBox Orin NX



AiBox Orin Nano



EC-AGXOrin



EC-OrinNX

Computing System

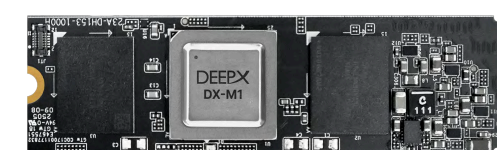


UP Boards & UP System

AI Accelerators



Hailo-10H M.2



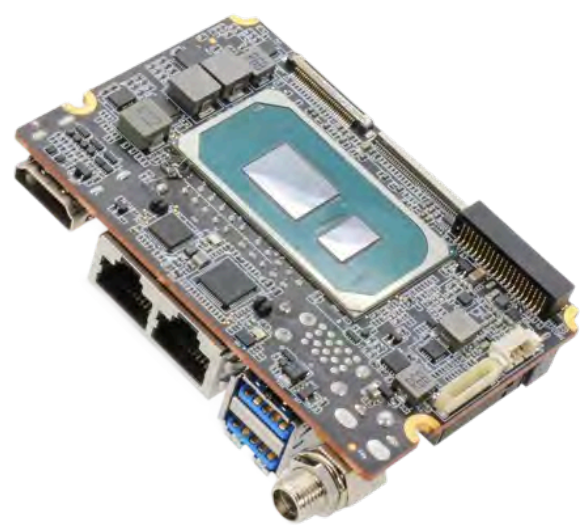
DX-M1 M.2



DX-M1M M.2

Embedded Boards





de next-TGU8

Intel® 11th Gen Core™ i7/i5/i3



de next-V2K8

AMD Ryzen™ Embedded V2000



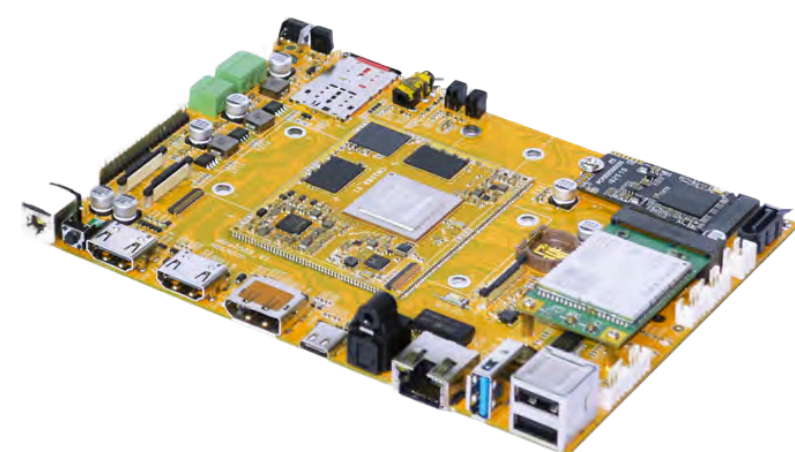
PICO-RAP4

Intel® 13th Gen Core™ i7/i5/i3



PICO-ADN4 REV.B

Intel Atom® x7000E / N-series



Idea3588

Rockchip RK3588 (Octa-core 2.4GHz)



UP XTREME 7100

Intel® Processor N-series



UP Squared Pro 7100 Edge

Intel® Processor N-series SoC

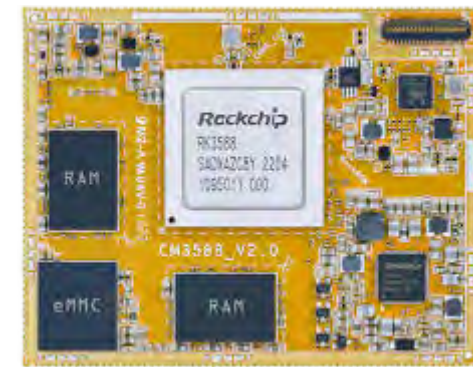


UP Squared Pro 7000 Edge

Intel Atom® x7000E / N-series

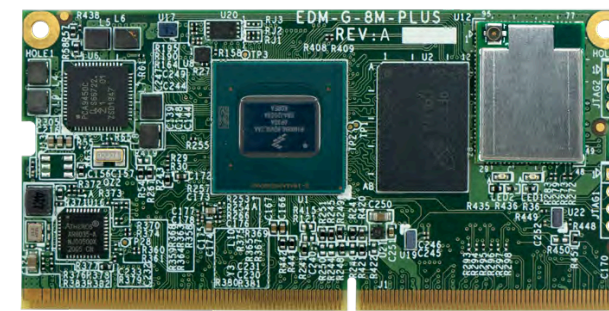
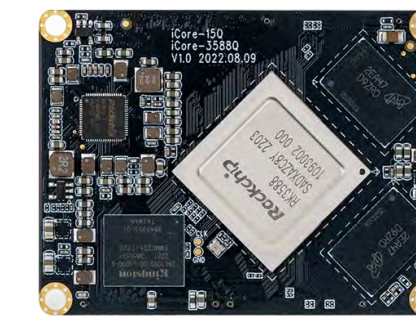
System On Module (1~25 TOPs)

Embedded Board



RK3588

6 TOPs NPU
Android & Debian 지원



i.MX 8M Plus

2.3 TOPs NPU
산업용 Wide Temp 지원

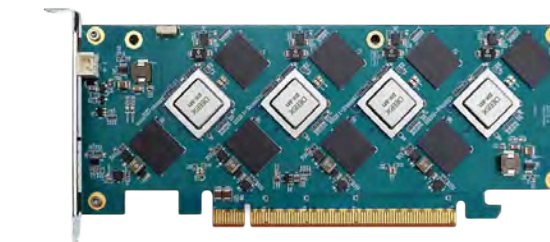
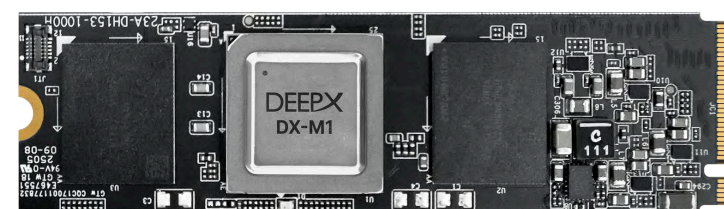


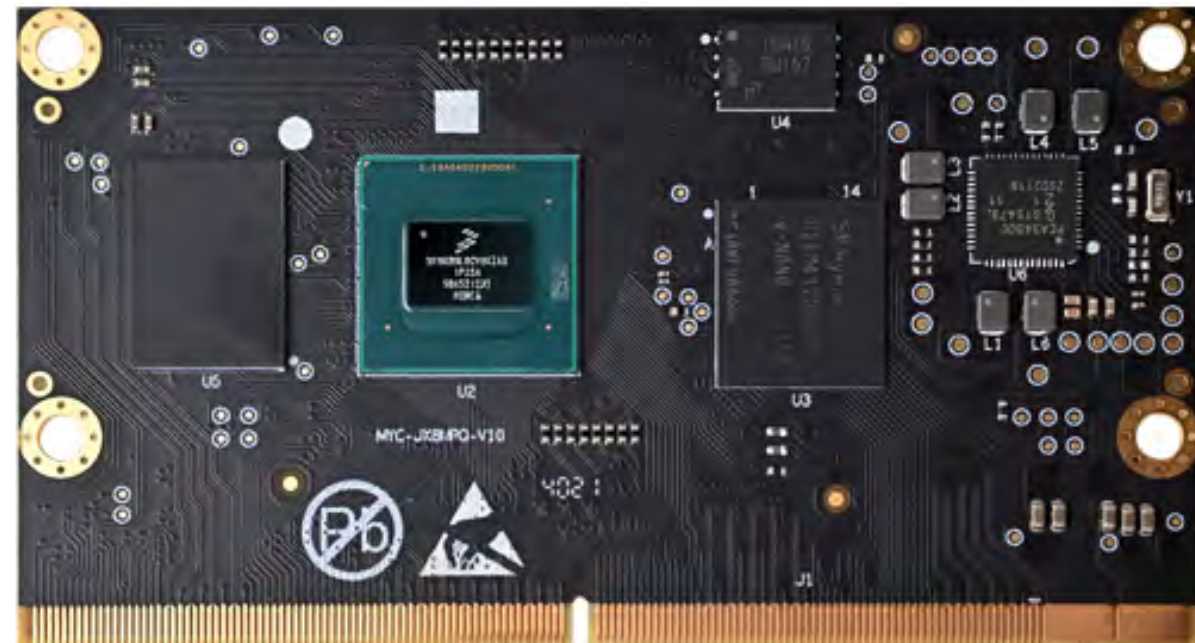
Open-Q™ 8250CS

초소형 폼팩터
Android 13 지원



AI Accelerators



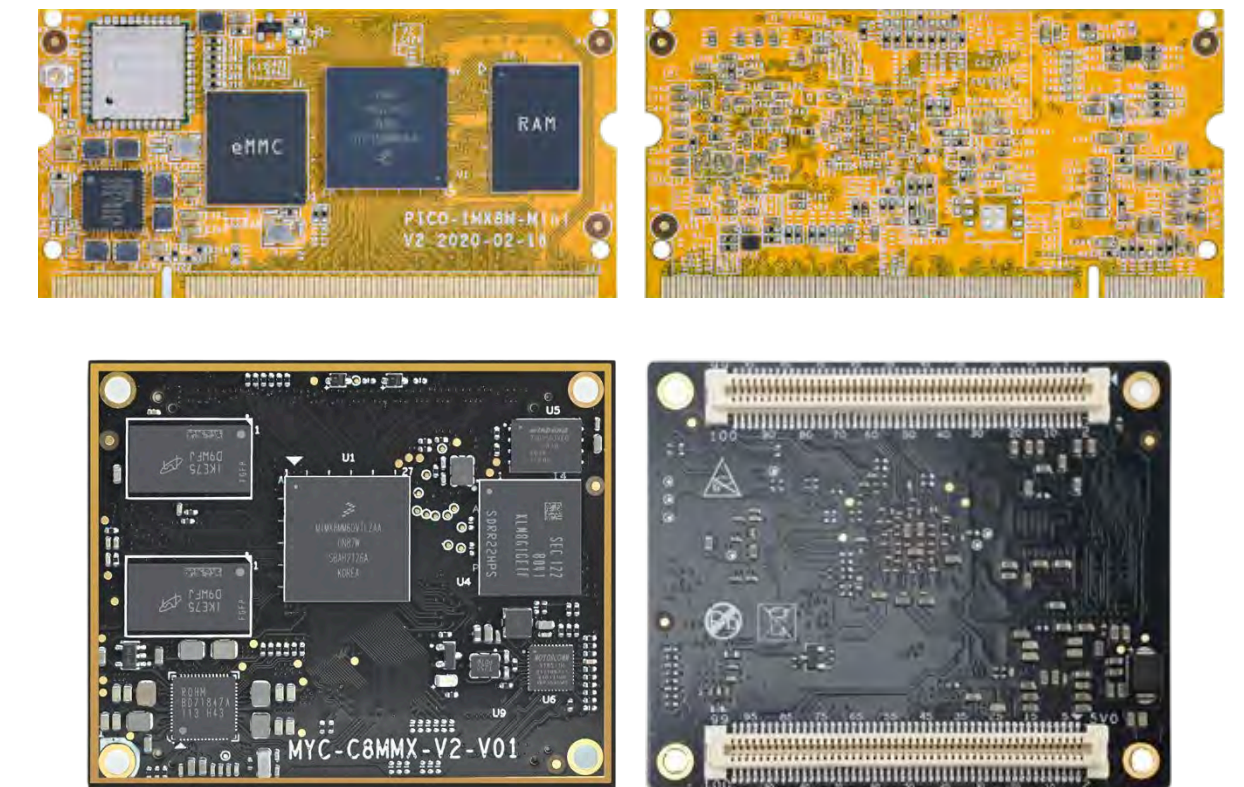


MYC-JX8MPQ

프로세서 : NXP i.MX 8M Plus Quad (1.6GHz Cortex-A53 & 800MHz Cortex-M7)
 AI 가속 : 통합 신경망 처리 장치 (NPU) 지원 (최대 2.3 TOPS)
 메모리 : 2GB/3GB/4GB LPDDR4 / 8GB eMMC / 32MB QSPI Flash
 인터페이스 : 0.5mm 피치 314-pin MXM 3.0 Gold-finger 커넥터
 동작 환경 : 산업용 온도 지원 (-40°C to 85°C) / PMIC 내장
 운영체제 : Linux L5.10.9 지원

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 - +104°C
i.MX 8M Plus Quad	MIMX8ML6CVNKZAB	4x A53 (1.6Ghz), VPU, ISP, CAN-FD	-40°C - +104°C
i.MX 8M Plus Quad Lite	MIMX8ML4CVNKZAB	4x A53 (1.6Ghz), CAN-FD	-40°C - +104°C
i.MX 8M Plus Dual	MIMX8ML3CVNKZAB	2x A53 (1.6Ghz), VPU, NPU, ISP, CAN-FD	-40°C - +104°C

Form Factor



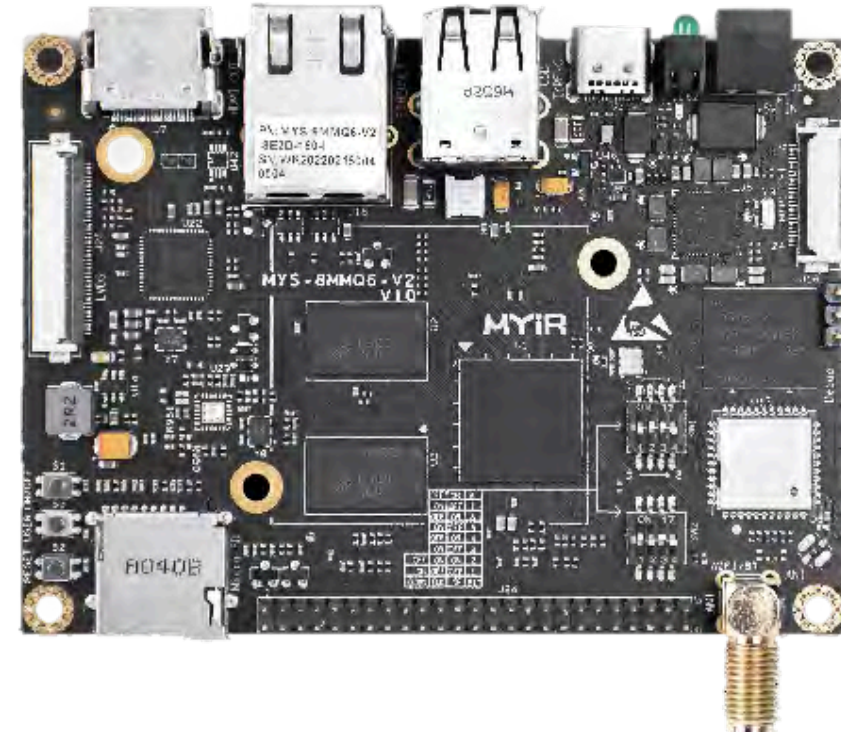
Application



Security Robot



Beauty Device



MYS-8MMX-V2 Board

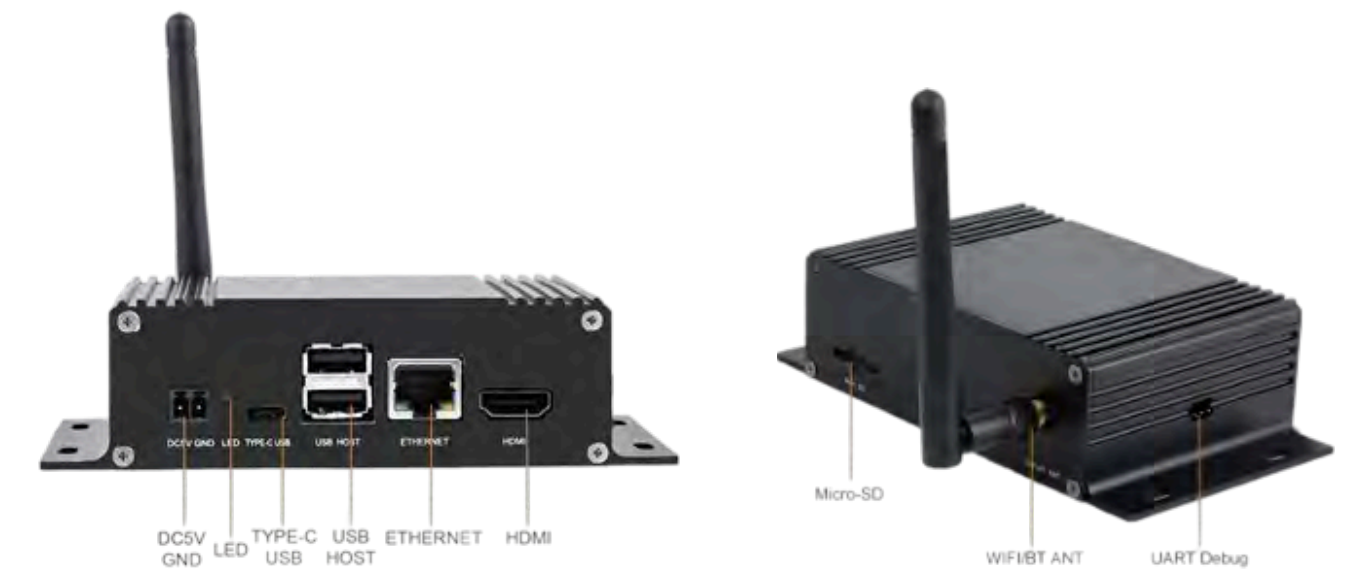
프로세서 : NXP i.MX 8M Mini Quad (1.8GHz Cortex-A53 & 400MHz Cortex-M4)
 메모리 : 2GB DDR4 / 8GB eMMC / 32MB QSPI / NVMe M.2 / Micro SD
 네트워크 : 1x GbE / Dual-Band WiFi & BT 5.0
 운영체제 : Yocto Linux & Ubuntu Linux 지원



MYS-8MMX-V2 Box

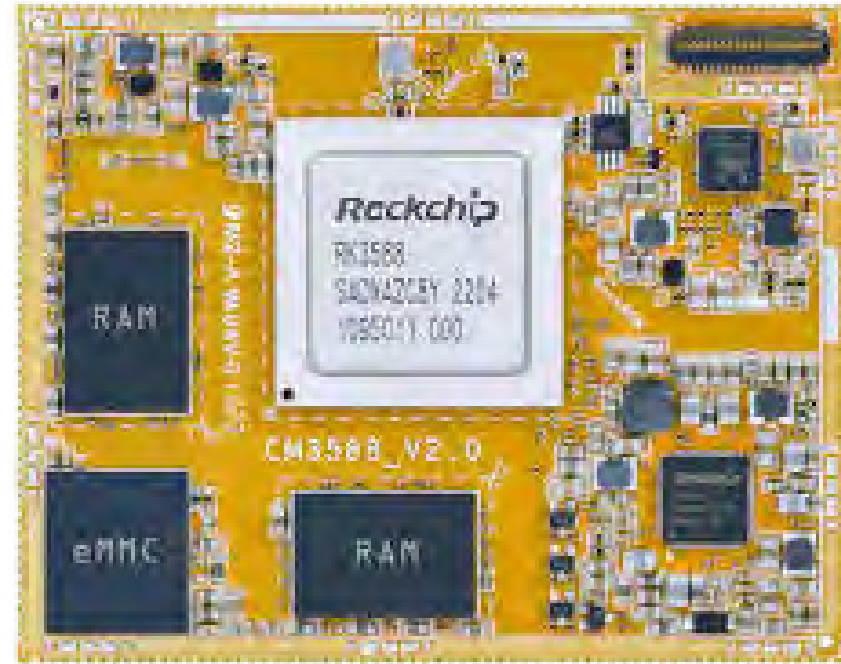
외관 재질 : 고품질 알루미늄 인클로저 (외부 전파 간섭 차폐 및 내구성 강화)
 방열 설계 : 내부 전용 히트싱크(Heat-sink) 기본 장착으로 발열 제어
 기구 사이즈 : 135mm(L) x 74.5mm(W) x 35.8mm(H) (마운팅 이어/Ears 포함)
 외부 인터페이스 : 2x USB 2.0 / 1x USB Type-C / 1x HDMI / 외부 안테나 포트
 동작 온도 : 산업용 극한 환경 지원 (-40°C to 85°C)

Form Factor



Application

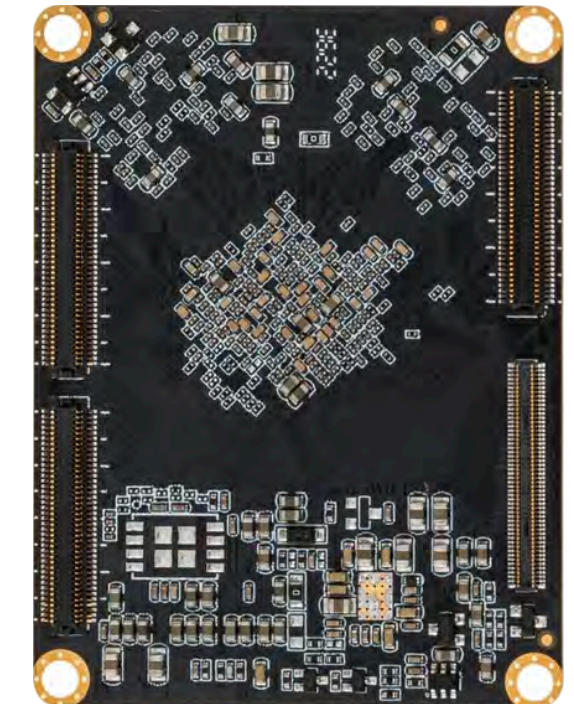
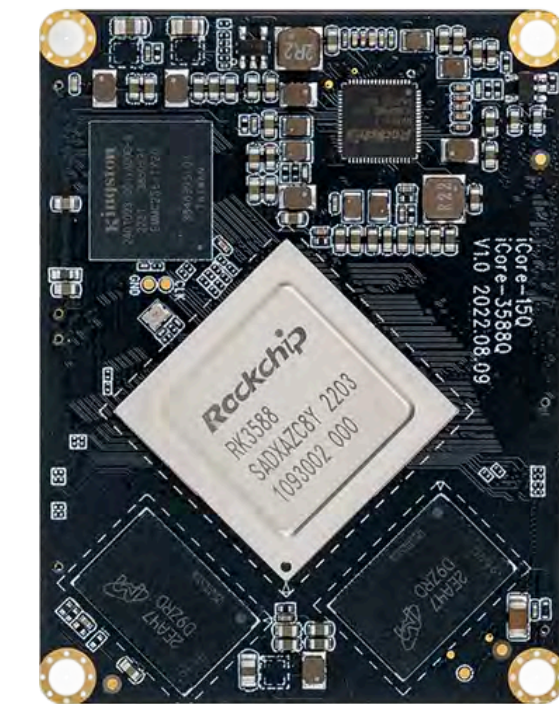
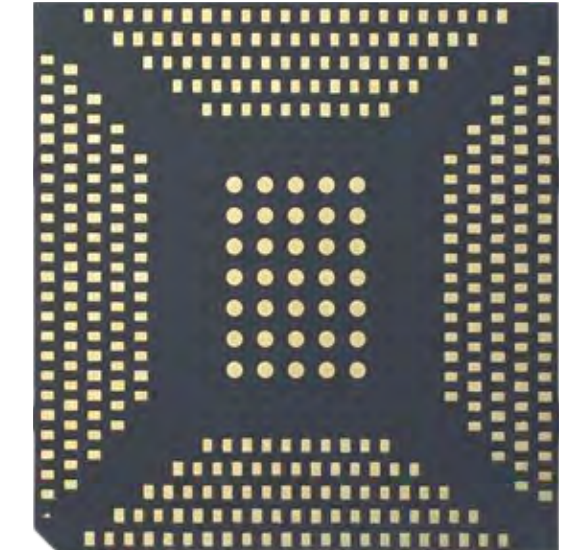
Industrial Gateway	Smart Building
Industrial Control	Medical Equipment
Industrial HMI	Audio/Video Processing



CM3588

프로세서 : Rockchip RK3588(J) (4x Cortex-A76 2.4GHz + 4x Cortex-A55 1.8GHz)
 AI 가속 : 통합 신경망 처리 장치 (NPU) 지원 (최대 6 TOPS)
 메모리/스토리지 : 8GB/16GB RAM / 32GB~256GB eMMC 옵션
 비디오 I/O : 8K 디스플레이 지원 (2x HDMI TX, HDMI RX, DP, MIPI DSI/CSI)
 인터페이스 : 230-pin 1.0mm QFN 패키지 / 39-pin 카메라 전용 FPC
 동작 환경 : 상업용(0°C~80°C) 및 산업용(-40°C~85°C) 옵션 지원
 운영체제 : Android 14, Debian 12, Buildroot 환경 제공

Form Factor



Application



Delivery Robot



Security Robot



Humanoid



Quadruped Robot



Beauty Device



Open-Q™ 9075IQ

프로세서 : Qualcomm® IQ-9075 SoC (Kryo™ Octa-core & Adreno™ 663 GPU)
 AI 가속 : 듀얼 Hexagon 텐서 프로세서 (최대 100 TOPS INT-8 성능)
 메모리/스토리지 : 최대 36GB LPDDR5 (3200MHz) / 초고속 UFS 3.1 & NVMe 지원
 비디오 & 카메라 : 최대 16개 카메라 동시 연결, 최대 5채널 4K 디스플레이 지원
 인터페이스 : 다중 PCIe Gen4, USB 3.1, 8x CAN-FD, 2.5Gbps 이더넷, Wi-Fi 6
 동작 환경 및 OS : 산업용 극한 온도 지원 (-40°C ~ +115°C) / Qualcomm® Linux 제공

Application



Form Factor



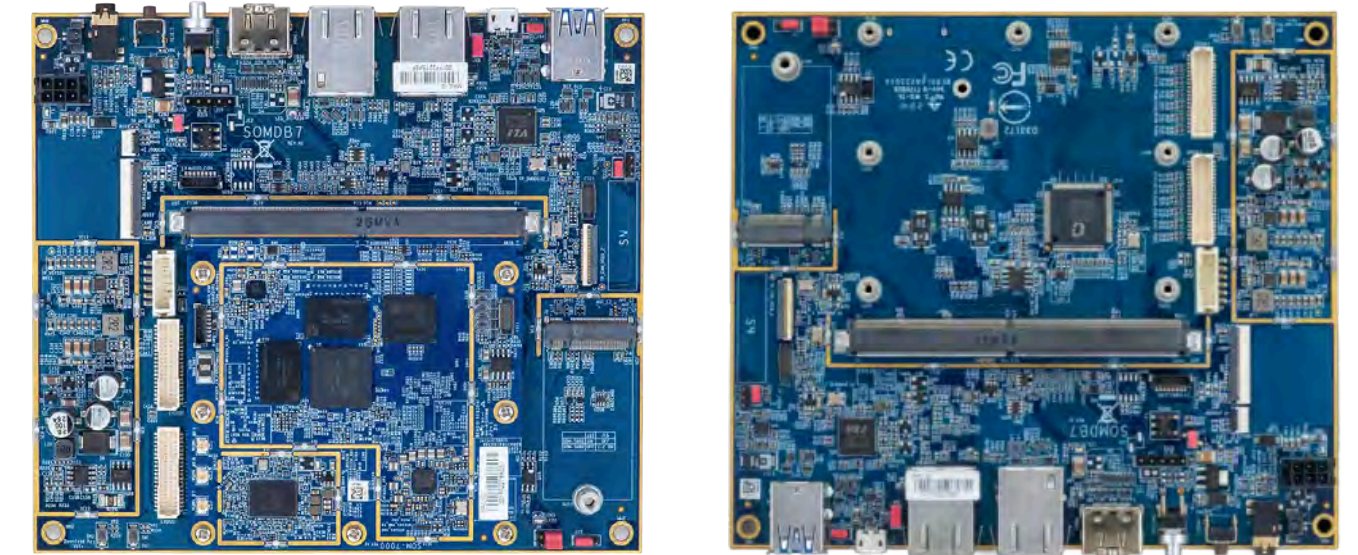
- Multi-Camera System
- Autonomous Mobile Robots
- Industrial Drones
- Industrial Gateway



VIA SOM-7000

- 프로세서 : MediaTek Genio 1200 Octa-Core (4x Cortex-A78 2.2GHz + 4x A55)
- AI 가속 : MediaTek APU 2.0 & Cadence Vision P6 NPU (최대 4.8 TOPS 지원)
- 비디오 & 카메라 : 4K 하드웨어 가속 (H.265/H.264), 듀얼 MIPI CSI-2 카메라 지원
- 디스플레이 : 듀얼 디스플레이 지원 (MIPI DSI, HDMI, LVDS)
- 네트워크 : 듀얼 밴드 Wi-Fi 6, 듀얼 GbE LAN, 4G LTE 확장(M.2 슬롯)
- 폼팩터 및 OS : SMARC 2.11 규격 (82x80mm) / Android 13, Yocto 4.0, Debian 12

Form Factor

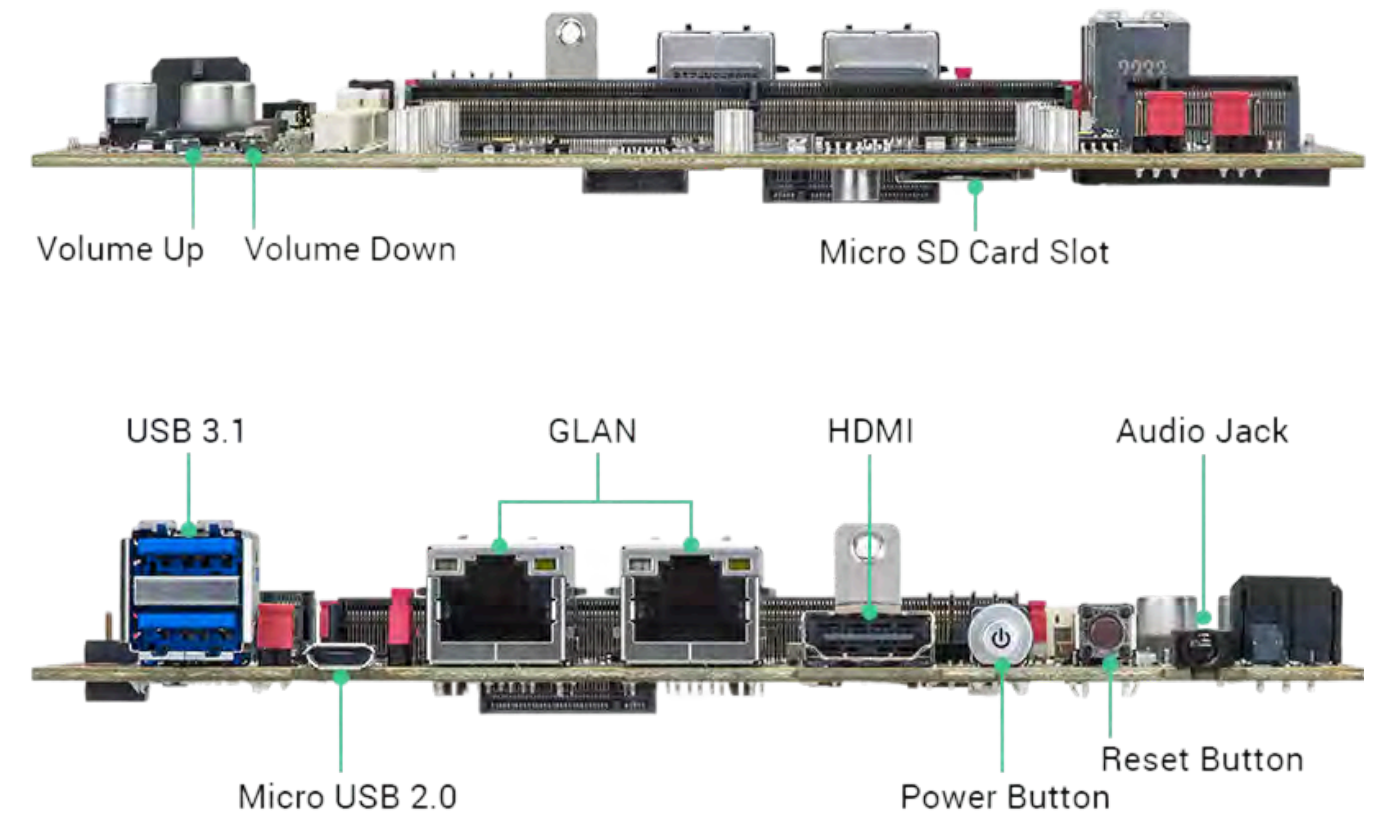


Application

Industrial AIoT	Smart Retail
Machine Vision	Edge AI Computing

Software Packages

- 지원 OS : Android 13, Yocto 4.0, Debian 12
개발 기간 단축을 위한 맞춤형 BSP 제공
- ▶ Android 13.0 EVK [1.25 GB] (v1.1.0)
 - ▶ Yocto 4.0.17 EVK [1.33 GB] (v2.1.0)



PERFORMANCE		MAINSTREAM			ENTRY	
2022	2023	2022	2023	2022	2022	2022
						
GPU/NPU Specification						GC: Graphic Core TC: Tensor Core
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)
CPU Specification						C : CPU Core
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)

Application



Delivery Robot



Security Robot



Humanoid



Quadruped Robot





BOXER-8642AI

NVIDIA® Jetson AGX Orin™
Fanless Edge AI System



BOXER-8645AI

NVIDIA® Jetson AGX Orin™
Fanless Edge AI System



BOXER-8652AI

NVIDIA® Jetson Orin™ NX
Compact Fanless System



BOXER-8651AI

NVIDIA® Jetson Orin™ NX
Compact Fanless System



BOXER-8622AI

NVIDIA® Jetson Orin Nano™
Compact Fanless (Super Mode 지원)



UP SQUARED PRO 710H EDGE

Intel® Core™ i3-N304 & Atom® x7000 Onboard Hailo-8™
AI Processor (최대 16GB LPDDR5)



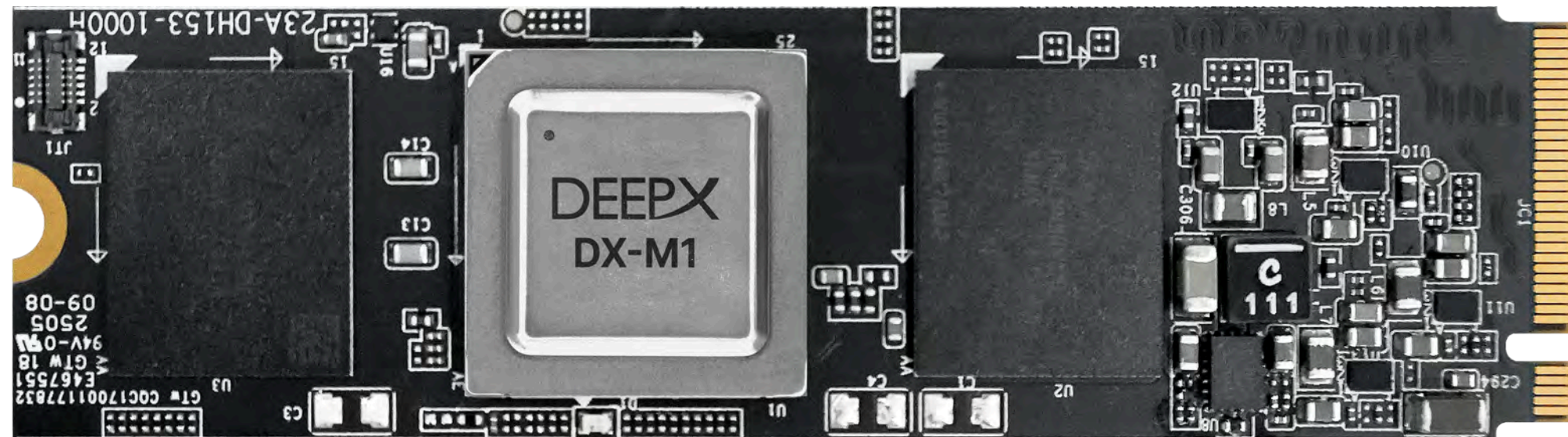
AIBOX-OrinNano

NVIDIA® Jetson Orin Nano™ (8GB)
최대 67 TOPS 성능 / 128GB NVMe SSD 탑재



EC-Thor T5000

NVIDIA® Jetson Module
JetPack 7 (SBSA-Aligned) 최대 92채널 1080P 비디오 디코딩 지원



DEEPX DX-M1 M.2

AI 연산 성능 : 25 TOPS (INT8 기준)

메모리 스펙 : 4GB LPDDR5 (5600 MT/s)

인터페이스 및 폼팩터 : M.2 2280 (Key M) / PCIe Gen3 x4 (Gen 1/2/3 및 x1/x2/x4 호환)

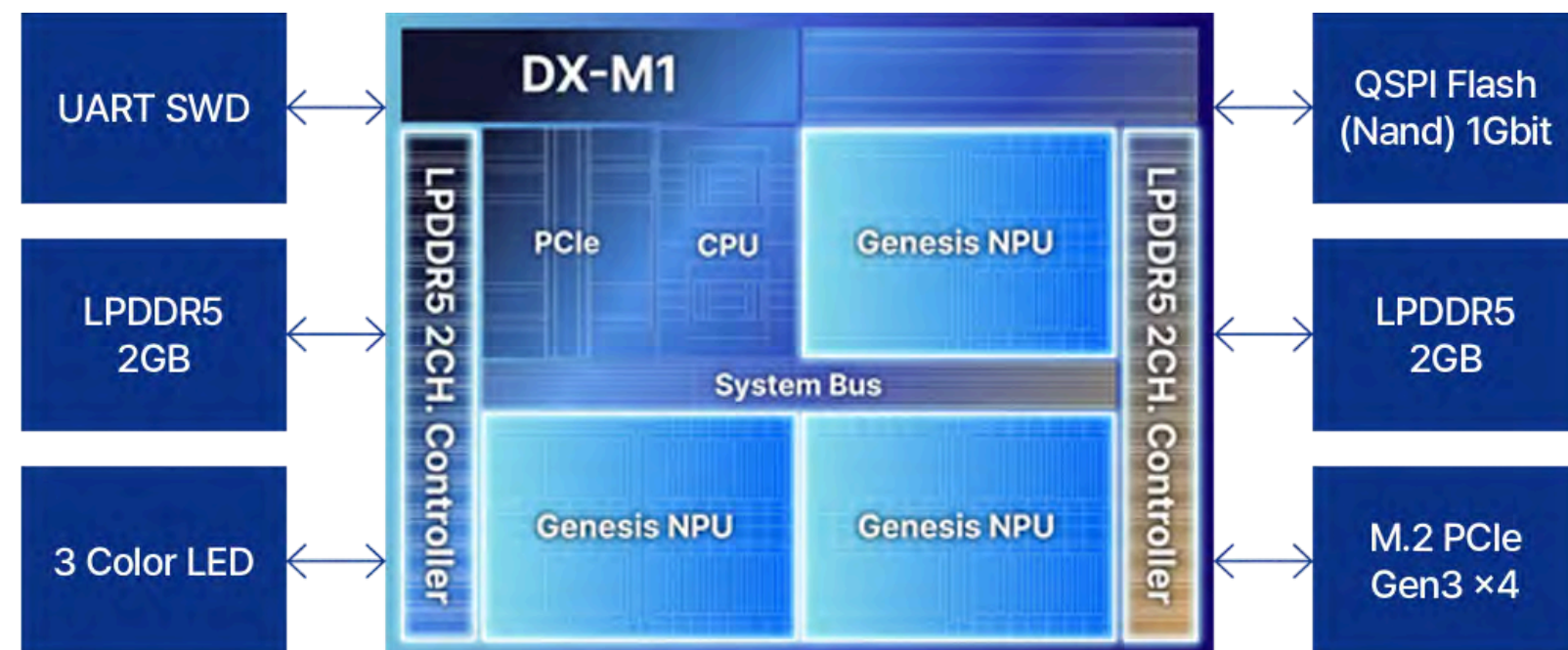
전력 소비 : Min 1W ~ Max 5W

동작 환경 : -40°C ~ 85°C (산업용 온도 지원 / Heatsink 방열판 옵션)

플랫폼 및 OS : x86 및 ARM 아키텍처 호환 / Windows 10·11, Ubuntu 20.04·22.04·24.04 LTS (Yocto, Docker 지원)

AI 프레임워크 : Ultralytics, TensorFlow, PyTorch, ONNX, Keras 지원

System Architecture



Application



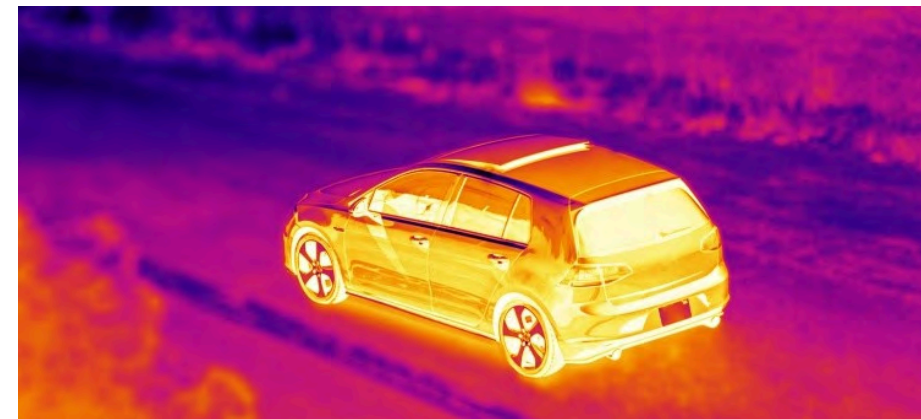
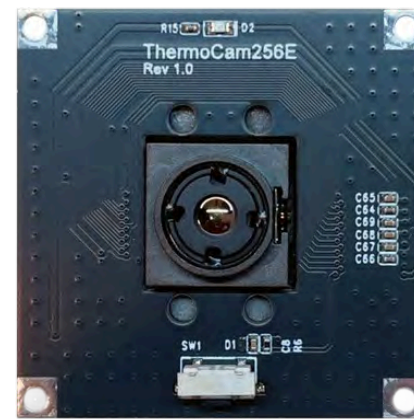
	<p>WiFi BT module KC / FCC / CE / TELEC Certified</p>	<p>Automotive WLAN Module AQC-100 Certified</p>	<p>IoT with Matter Module WiFi BT Combo KC / FCC / CE / TELEC Certified</p>	<p>Industrial WiFi module KC / FCC / CE / TELEC Certified</p>
MAKER				
ITEM	<p>synaptics</p> <p>BROADCOM</p>			
MODEL	<ul 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 PCIe / M.2 / USB interface BT Module WLAN+BT Combo Module IoT Module

	PCB Pattern Type	Swivel Type	Others
MODEL			
SPEC	<p>Freq. Range :</p> <p>2.400GHz~2.4835GHz</p> <p>5.150GHz~5.850GHz</p> <p>5.925GHz~7.125GHz</p> <p>Gain : 1~4.5dBi</p> <p>Impedance : 50 ohm</p> <p>Connector : IPEX, U.FL, MHF 1/4</p> <p>Operating temp. : -40°C ~ +70°C</p>	<p>Freq. Range :</p> <p>2.400GHz~2.4835GHz</p> <p>5.150GHz~5.850GHz</p> <p>5.925GHz~7.125GHz</p> <p>Gain : 1~9dBi</p> <p>Impedance : 50 ohm</p> <p>Connector : SMA</p> <p>Polarization : Vertical</p> <p>Operating temp. : -40°C ~ +70°C</p>	<p>MHF1/4 Receptacle</p> <p>Freq. Range : 1~6 GHz</p> <p>Current Rating : 0.5A</p> <p>Impedance : 50 ohm</p> <p>Operating temp. : -40°C ~ +80°C</p> <p>SMA Connector & Cable</p> <p>Freq. Range : 1~6 GHz</p> <p>Current Rating : 0.5A</p> <p>Impedance : 50 ohm</p> <p>On resistance : 0.5 ohm</p> <p>Operating temp. : -40°C ~ +80°C</p>

Thermal Camera

Vision Camera & LiDAR

MODEL



SPEC

TMC80B / TMC80E

Sensor : Uncooled VOx Microbolometer
Spectral Range : 8 μ m ~ 14 μ m
Resolution : 80 x 60
Pixel Pitch : 17 μ m
Frame Rate : 8.6Hz
FOV : 50°
Measure Range :
 -10°C ~ 140°C (High) / -10°C ~ 400°C (Low)
Interface :
 USB-FS (B 모델) / Ethernet (E 모델)
Power :
 USB DC 5V (B 모델) / PoE & DC 12V (E 모델)
Dimension : 38 x 38mm

TMC160B / TMC160E

Sensor : Uncooled VOx Microbolometer
Spectral Range : 8 μ m ~ 14 μ m
Resolution : 160 x 120
Pixel Pitch : 12 μ m
Frame Rate : 8.7Hz
FOV : 57°
Measure Range :
 -10°C ~ 140°C (High) / -10°C ~ 400°C (Low)
Interface :
 USB-FS (B 모델) / Ethernet (E 모델)
Power :
 USB DC 5V (B 모델) / PoE & DC 12V (E 모델)
Dimension : 38 x 38mm

Supported Tech : GMSL / ToF / Depth / RGB / Stereo / Vision 2D·3D LiDAR

ToF LiDAR Module

Performance : 12 ~ 40 meter, 32,000 ~ 60,000 scan/sec
Operating Env : 270 ~ 360 degree, operating at 80,000 lux (Indoor/Outdoor)

Depth & RGB Camera Module

Type A : Depth (87° x 58°, Stereoscopic), RGB (69° x 42°, Rolling Shutter), .3m to 3m
Type B : Depth (87° x 58°, Stereoscopic), RGB (90° x 65°, Global Shutter), .6m to 6m



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 ~ 300W	DIP 1x1, 2.04x1.2, 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", 2.04x1.2" 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 60501-1)





Battery Charger / Power Adapter

Input : 100-240 VAC (50-60 Hz)

Output : 29.4 V / 8.0 A (Power Max: 235.2 W)

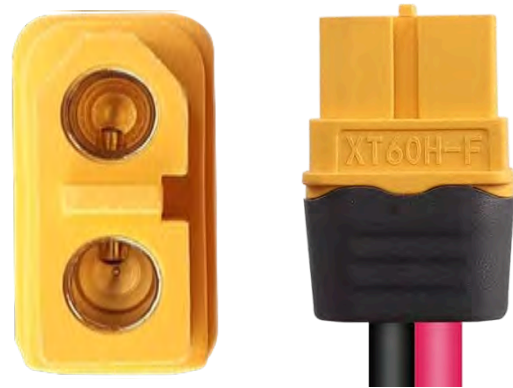
Efficiency : $\geq 92\%$

Dimension : 210 x 108 x 48.2 mm

Weight : 1 kg

Certification : UL, CUL, GS, UKCA, CE, SAA, KC, PSE, 3C

Connector Types



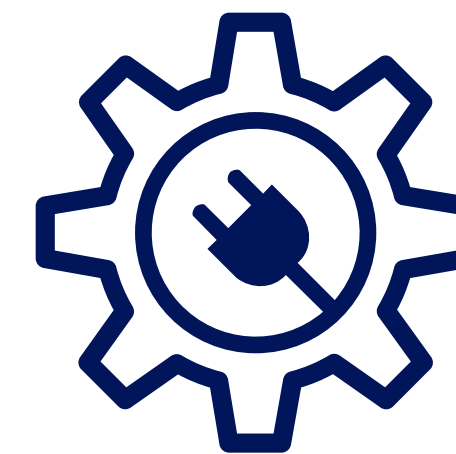
XT60



LP-16



LP-20



Custom Connector



ZK03-29.4V

Rated Power : 550W

Input : 220V \pm 15% (50Hz) / 2.8A

Output : 29.4V \pm 0.2V / 15A \pm 5% (Constant Current & Voltage)

Efficiency : > 85%

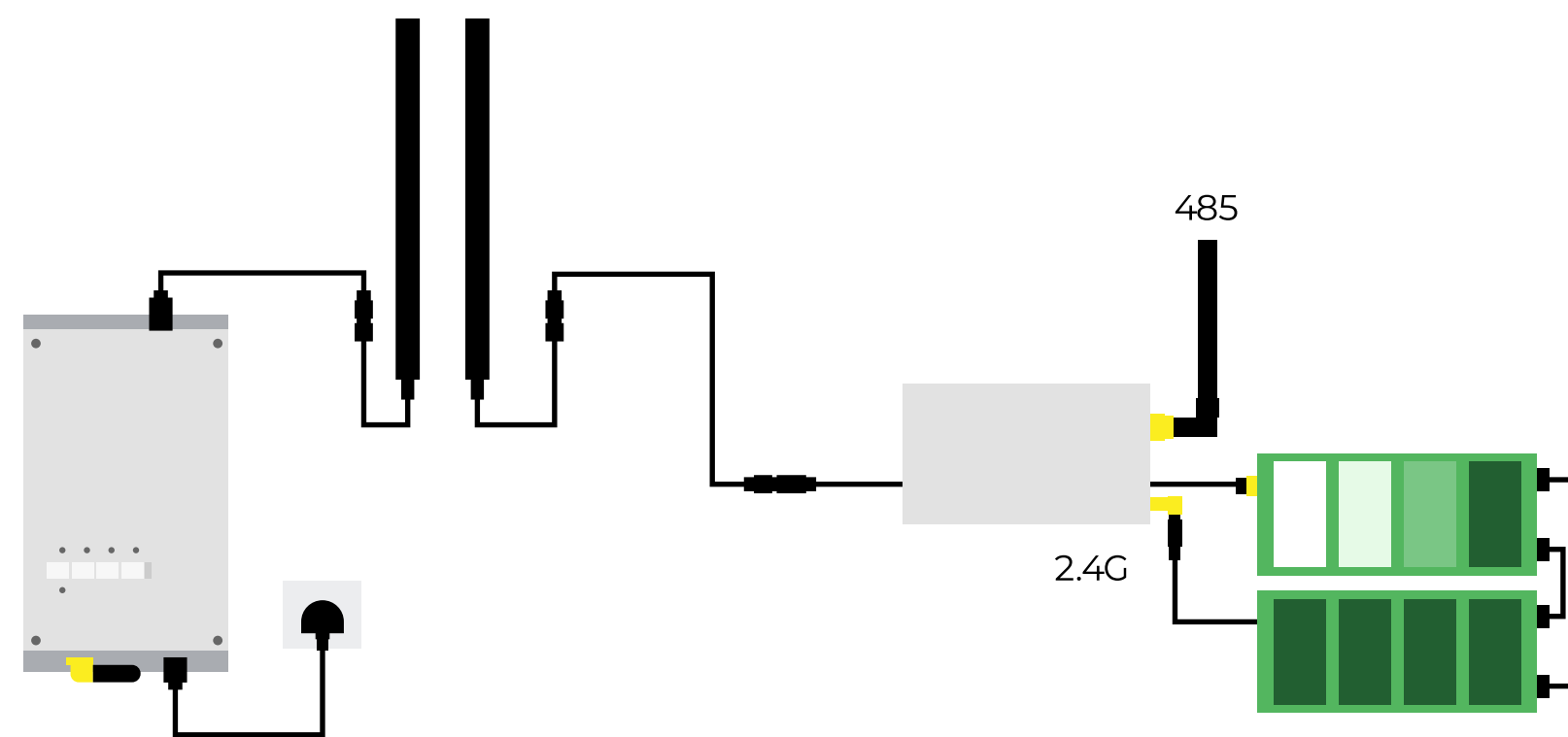
Cooling Method : Fan Air Cooling (Transmitter & Receiver)

Communication : 2.4G ISM (2.4~2.483GHz) / RS485 Interface

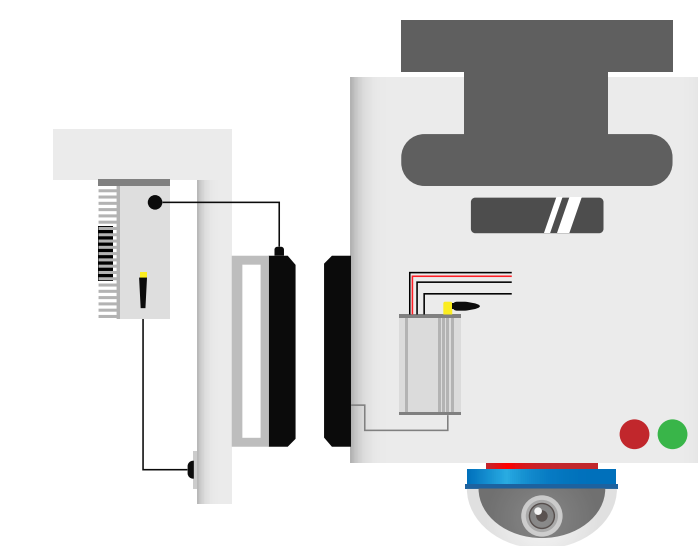
Operating Temp. : -20~55°C (RH < 90%)

Protection : Overvoltage, Overcurrent, Over-temperature (85°C)

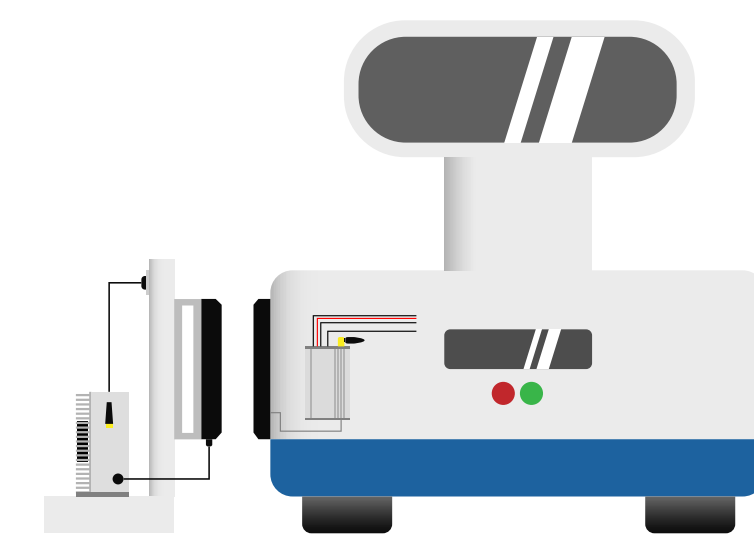
System Diagram



Application



Installation Recommendation for Rail-mounted robots

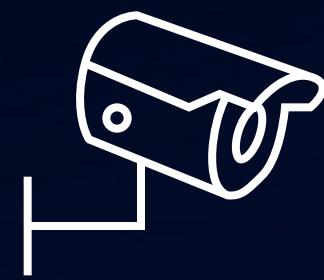


Installation Recommendation for Ground-based robots

	SSD / SD Card / eMMC	DRAM Module
MODEL	SSD (M.2 / SATA / 1.8" / 2.5") SD Card / Micro SD / Embedded eMMC Flash Card / USB Disk	DRAM Module / DDR4 / DDR5
ITEM		
SPEC	Industrial SPEC -40°C ~ +85°C / 3 years warranty	Industrial SPEC -40°C ~ +85°C / 5 years warranty

EDGE VISION AI & SENSING

고해상도 다채널 영상 데이터의 실시간 처리, 흔들림 없는 엣지(Edge) 컴퓨팅 설계로 완성합니다.



다채널 영상 수집
Data Input

실시간 딥러닝 추론
Edge AI Core

통합 관제 및 데이터 시각화
Visualization

위험 감지 및 현장 대응
Instant Action

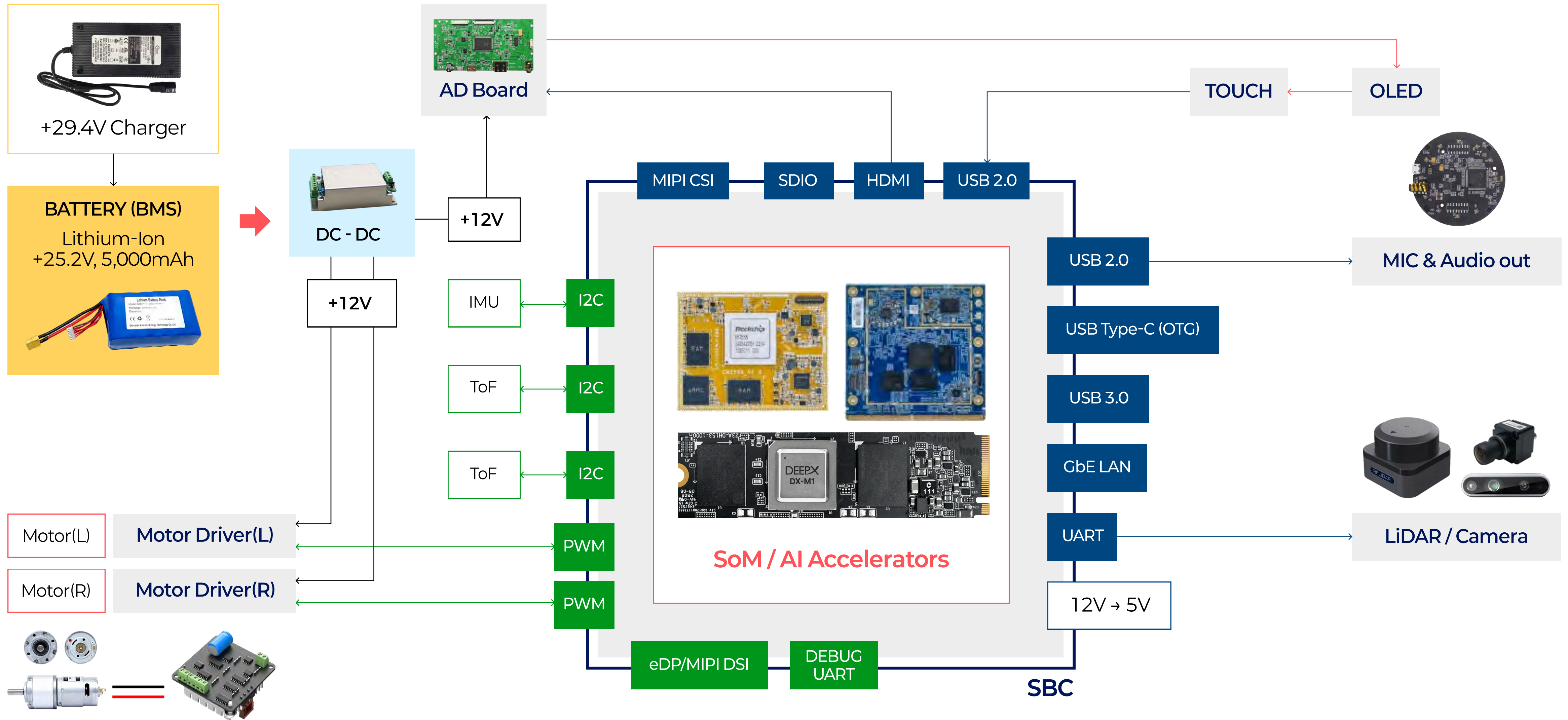
네트워크 CCTV 최대 4대 다채널 연동
RTSP 고해상도 실시간 영상 스트리밍

클라우드 지연 없는 초저지연 엣지 컴퓨팅
안전모/조끼(PPE) 및 이상 행동 실시간 객체 인식

AI 객체 추적 영상 디스플레이
PC / Mobile 대시보드 연동

쓰러짐, 싸움 등 위험 상황 감지 시 즉시 Alert 발송
현장 경보 시스템 연동 및 출입 게이트 즉각 통제





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 Customizing (LCD, OLED)

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



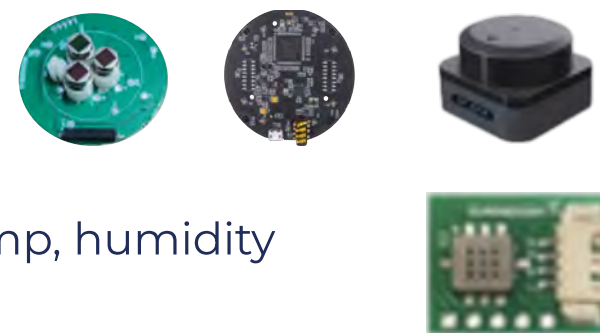
Memory & Storage

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



Sensors & MIC / Speakers

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



[Conceptual Prototype Image]



Charger & Battery

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



Camera Module

- GMSL / Stereo Camera
- USB 3.0 (1080P 30FPS)
- Depth Camera
- 열화상 (Thermal Imaging)



Wireless (WiFi/BT/LTE/5G)



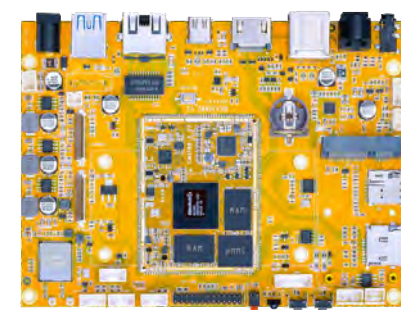
Robot Control



Intel CPU

Intel Atom®x7000RESeries, Intel® Processor N-series, and Intel® Core™ i3-N304 Processors
+ Hailo NPU Edge box
(Hailo-8™ edge AI processor)

Jetson Orin NX / AGX Orin

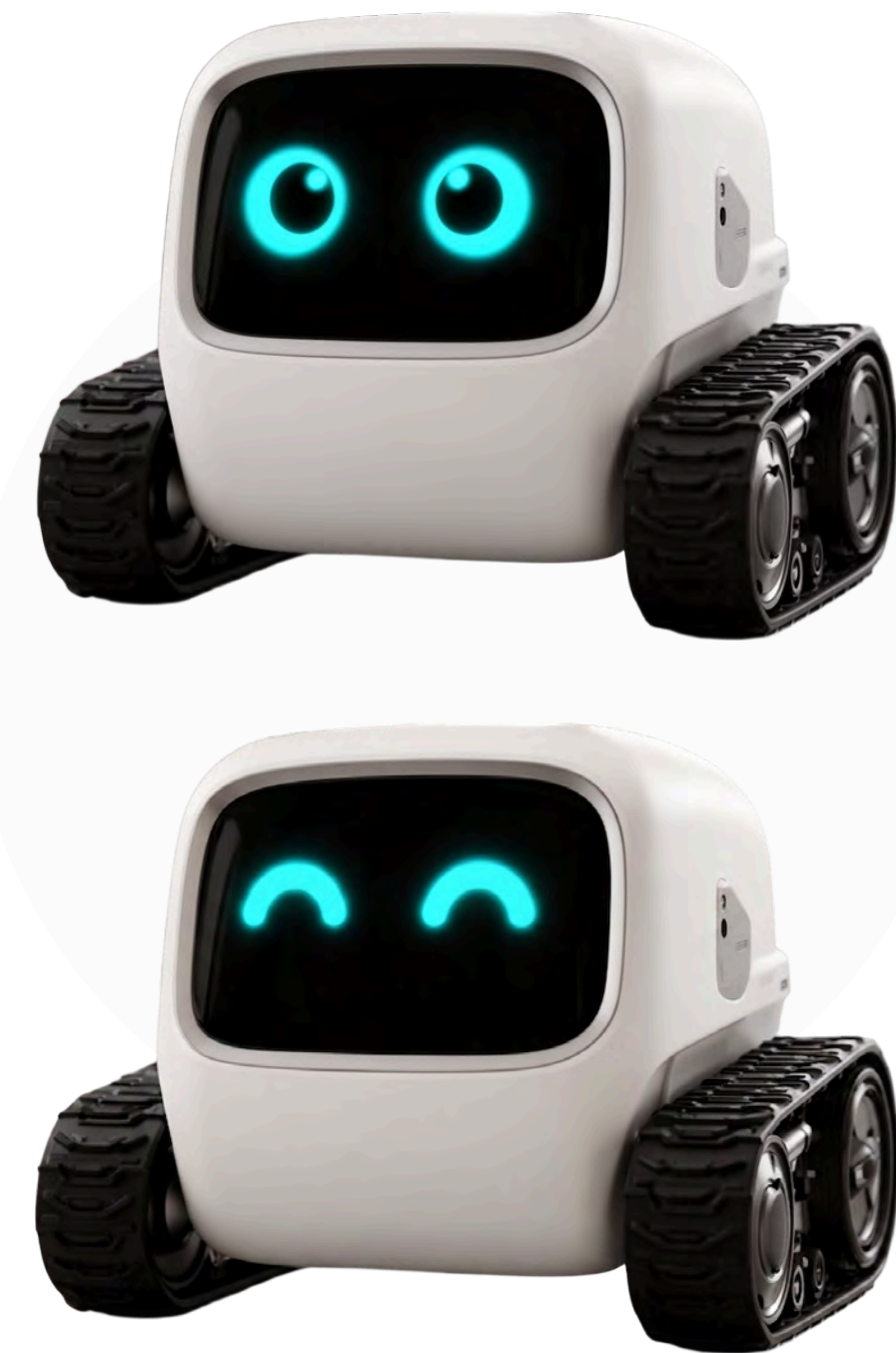


Processor : Rockchip RK3588.
4x Cortex-A76 cores @ 2.4GHz
+ 4x Cortex-A55 cores @ 1.8GHz
NPU : 6 TOPS



Memory & Storage

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



[Conceptual Prototype Image]

Charger & Battery

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



Display Customizing (LCD)

- 5" (Round LCD Display)



Sensors & MIC / Speakers

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

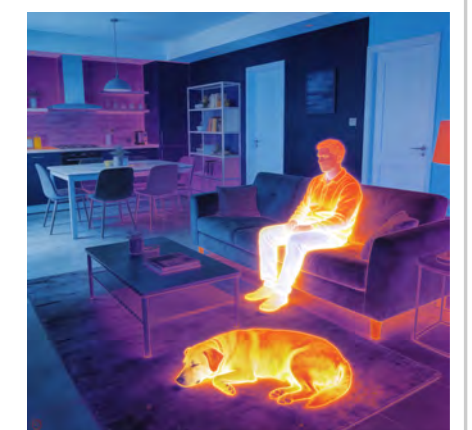


Wireless (WiFi/BT)



Camera Module

- USB3.0 (1080P 30FPS)
- Realsense D430 + HSF
- 열화상 (Thermal 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 & MIC / Speakers

- IMU / Vibration sensor
- ToF / Depth Camera
- Flame detection
- Gas / CO2 / Dust / temp humidity

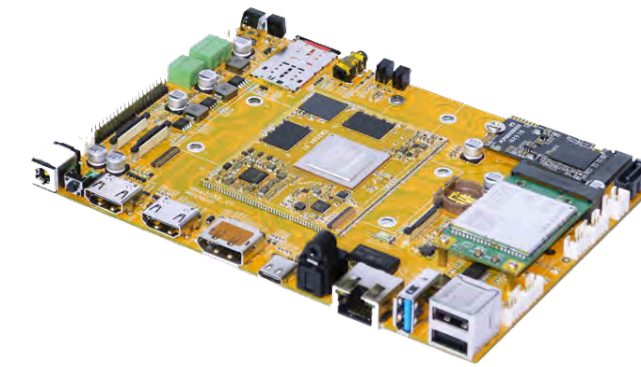


[Conceptual Prototype Image]



Robot Control

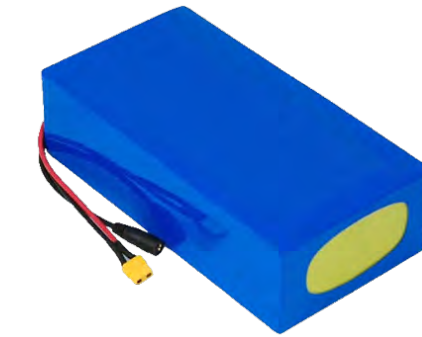
Idea3588



Processor : Rockchip RK3588.
Quad-core Cortex-A76 + Quad-core Cortex-A55
NPU: 6 TOPS

Battery (BMS)

Li-Ion 13S2P



Cell : Samsung INR21700-50S
Rated Voltage : 46.8V Rated Capacity : 10.0Ah
Charge Voltage : 54.6V

Battery Charger

FY54607000

Customizable Connector



I/P : 100-240V, 50/60Hz O/P : 54.6V / 7.0A
Certification : KC, FCC, CE

Battery (PCM)

Li-Ion 10S10P



Cell : Samsung 21700-50E
Rated Voltage : 36.0V Rated Capacity : 50.0Ah
Charge Voltage : 42.0V

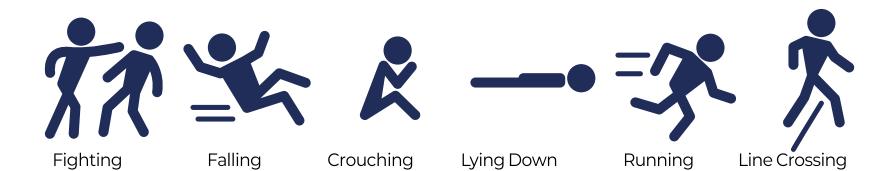
AI Vision



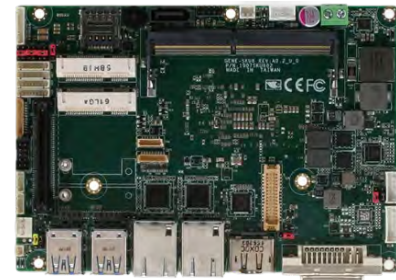
POI alerts, Access control, PPE detection



Action →



Robot Control



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

Jetson Orin NX / AGX Orin



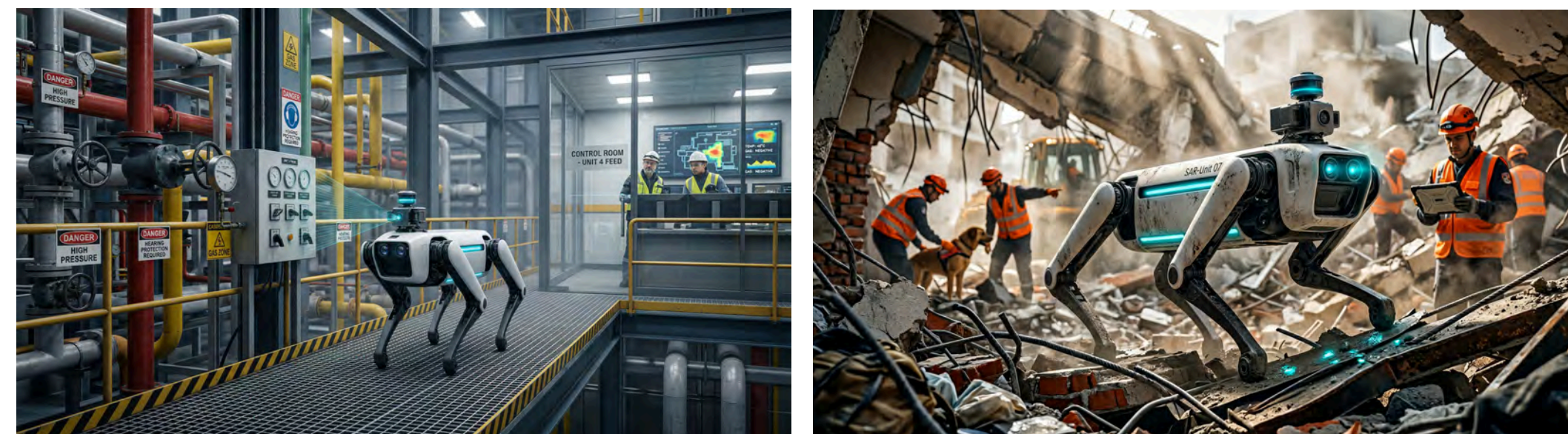
Processor : Rockchip RK3588.
4x Cortex-A76 cores @ 2.4GHz
+ 4x Cortex-A55 cores @ 1.8GHz
NPU: 6 TOPS

Memory & Storage

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



[Conceptual Prototype Image]



Camera Module

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



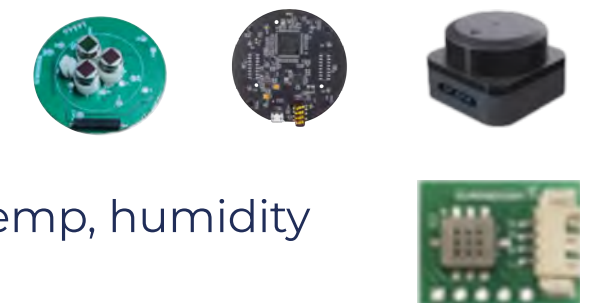
Charger & Battery

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



Sensors & MIC / Speakers

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

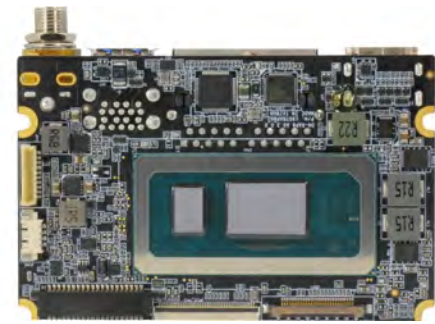


Wireless (WiFi/BT/LTE/5G)



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



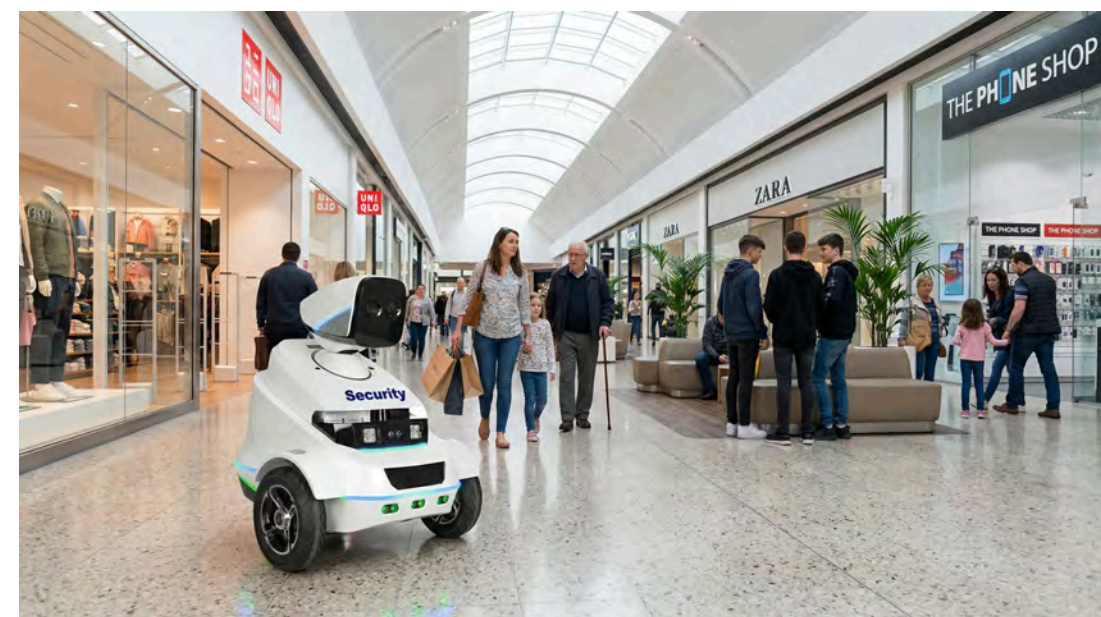
Processor : Rockchip RK3588.
4x Cortex-A76 cores @ 2.4GHz
+ 4x Cortex-A55 cores @ 1.8GHz
NPU: 6 TOPS

Sensors & MIC / Speakers

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

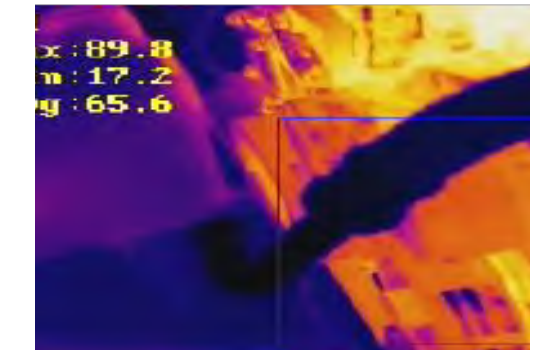


[Conceptual Prototype Image]



Camera Module

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



Wireless (WiFi/BT/LTE/5G)



Charger & Battery

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



Memory & Storage

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



AI Vision

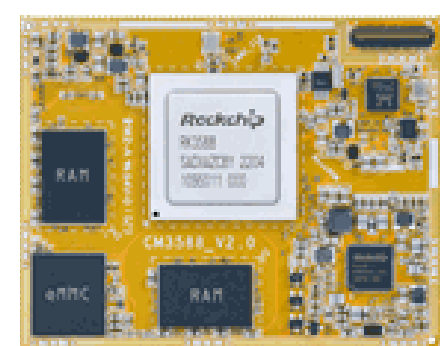


Robot Control

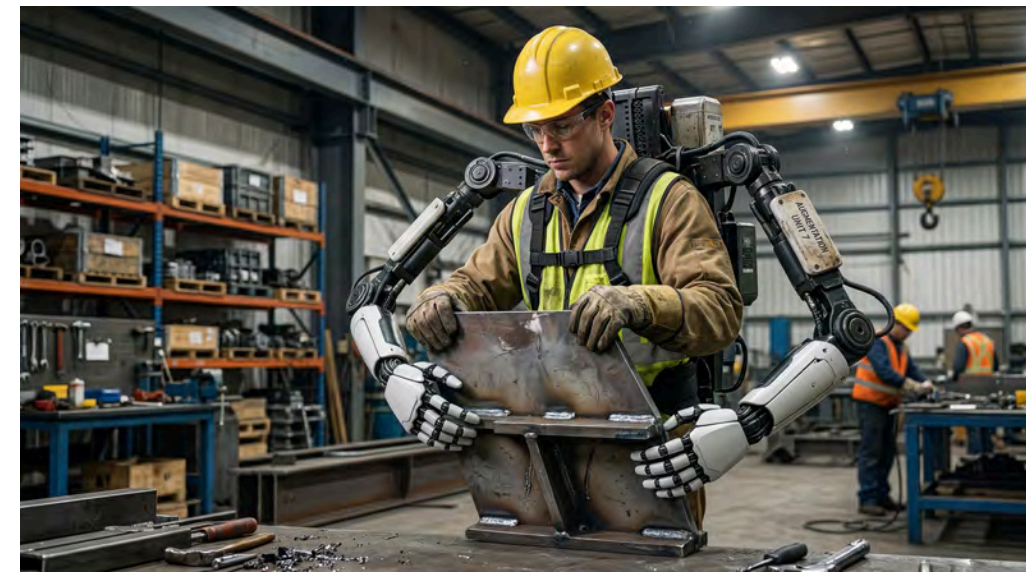


GENE-SKU6 3.5" SubCompact Board with Intel® Core™ i7/i5/i3/Celeron® Processor SoC

Jetson Orin NX / AGX Orin



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



[Conceptual Prototype Image]



Power Supply

- Power Supply & Adapter



Robot Motion Controller



Memory & Storage

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



Wireless (WiFi/BT/LTE/5G)



Robot Control

Compact3588S



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

NPU Module

20 ~ 30 TOPS



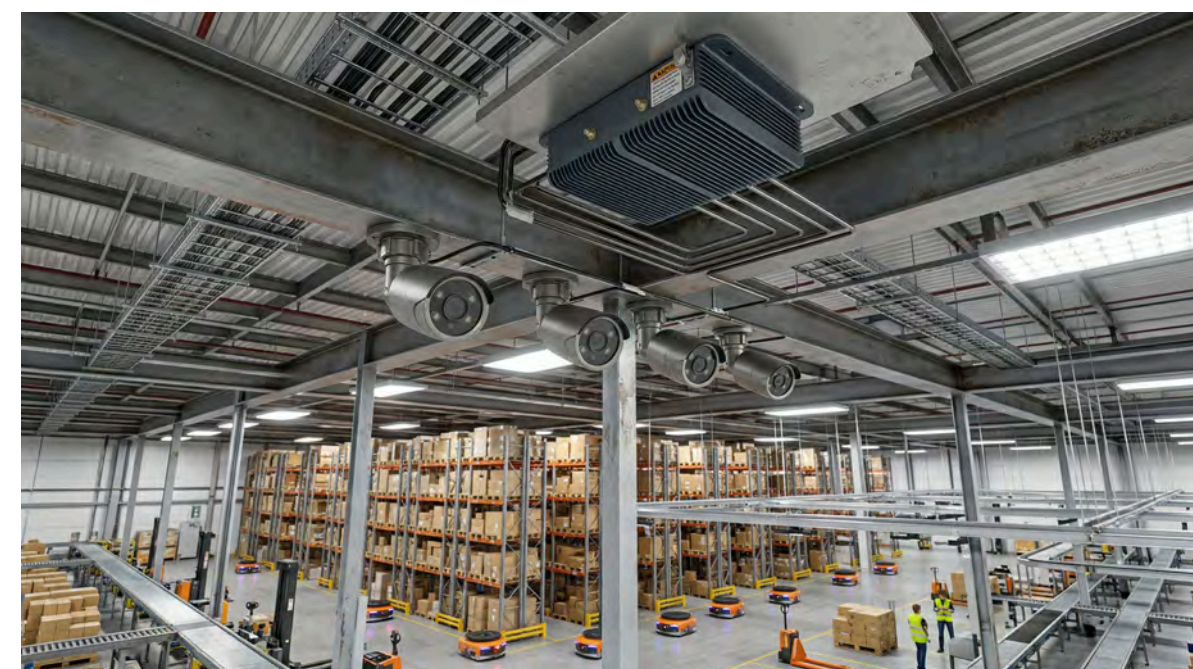
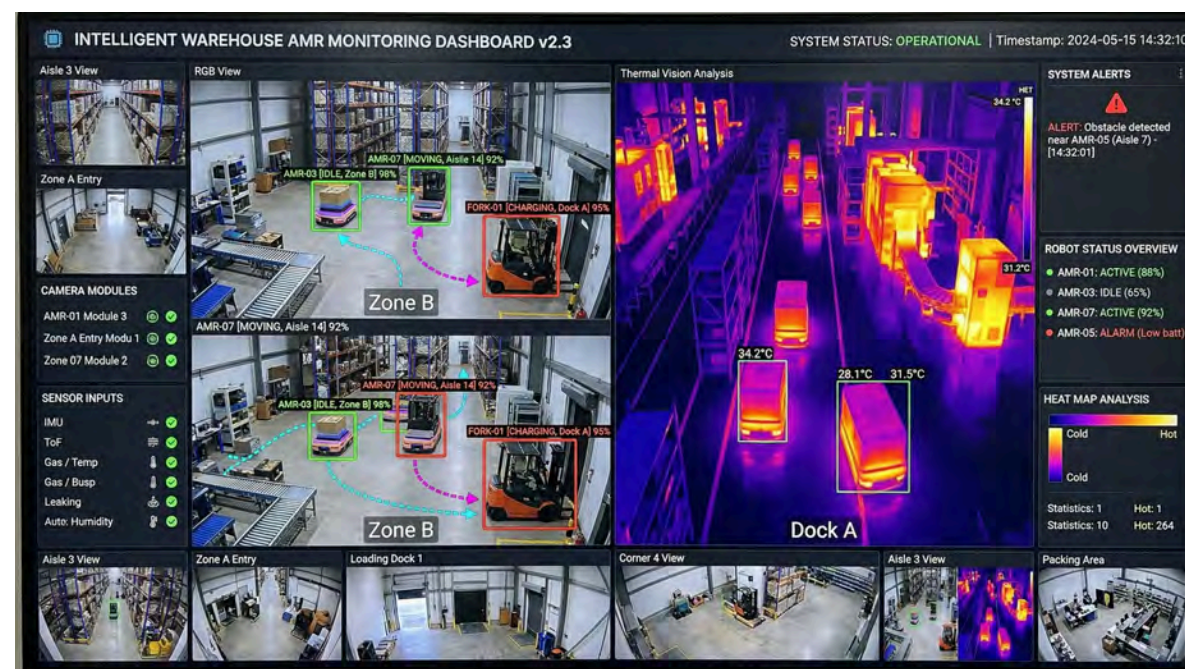
DEEPX

AI Vision

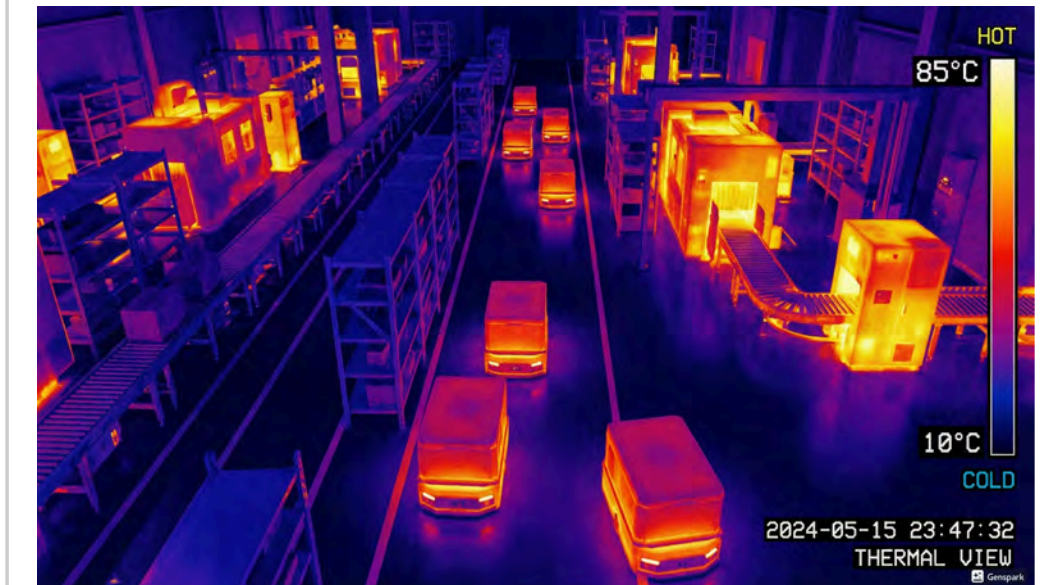
Optical AI Analyzing
Checking AMR, AGV location,
Detecting abnormal movement,
Detecting & Alarming Fire,
Leaking, other dangerous situation



[Conceptual Prototype Image]



Camera Module



- POE Camera Module
- Realsense D430 + HSF
- 열화상 (Thermal Vision)



Wireless (WiFi/BT)

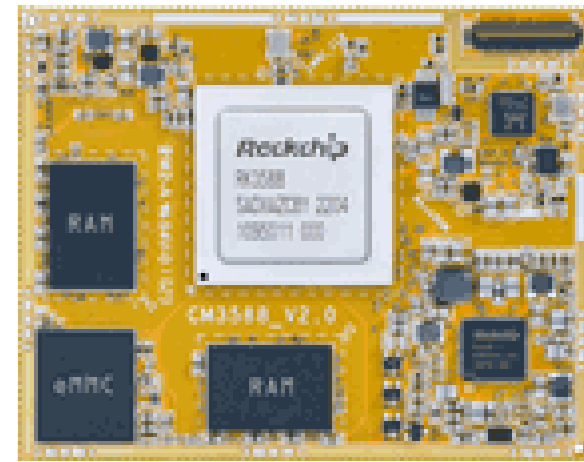


Sensors & Audio Speakers

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



Controller



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

Display (LCD/OLED)

- LCD/OLED
- Square/Rectangle/Round



Memory & Storage



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



[Conceptual Prototype Image]



Camera Module

- GMSL / Stereo / Depth Camera
- Depth Algorithm Running on NVIDIA Platform
- Realsense D430 + HSF



Wireless (WiFi/BT/LTE/5G)



Charger & Battery



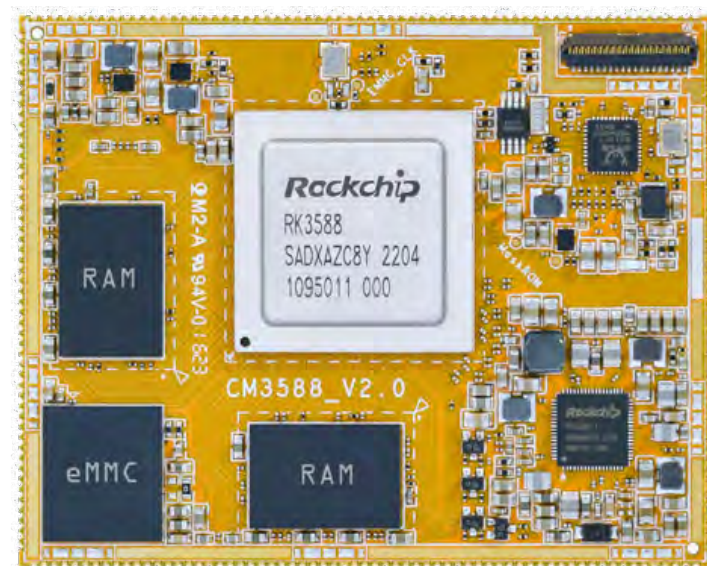
- Lithium-ion battery
- AC/DC Adapter/ Battery Charger Adapter

Vision Analyzer

JETSON Orin NANO



NPU 20/40 TOPS



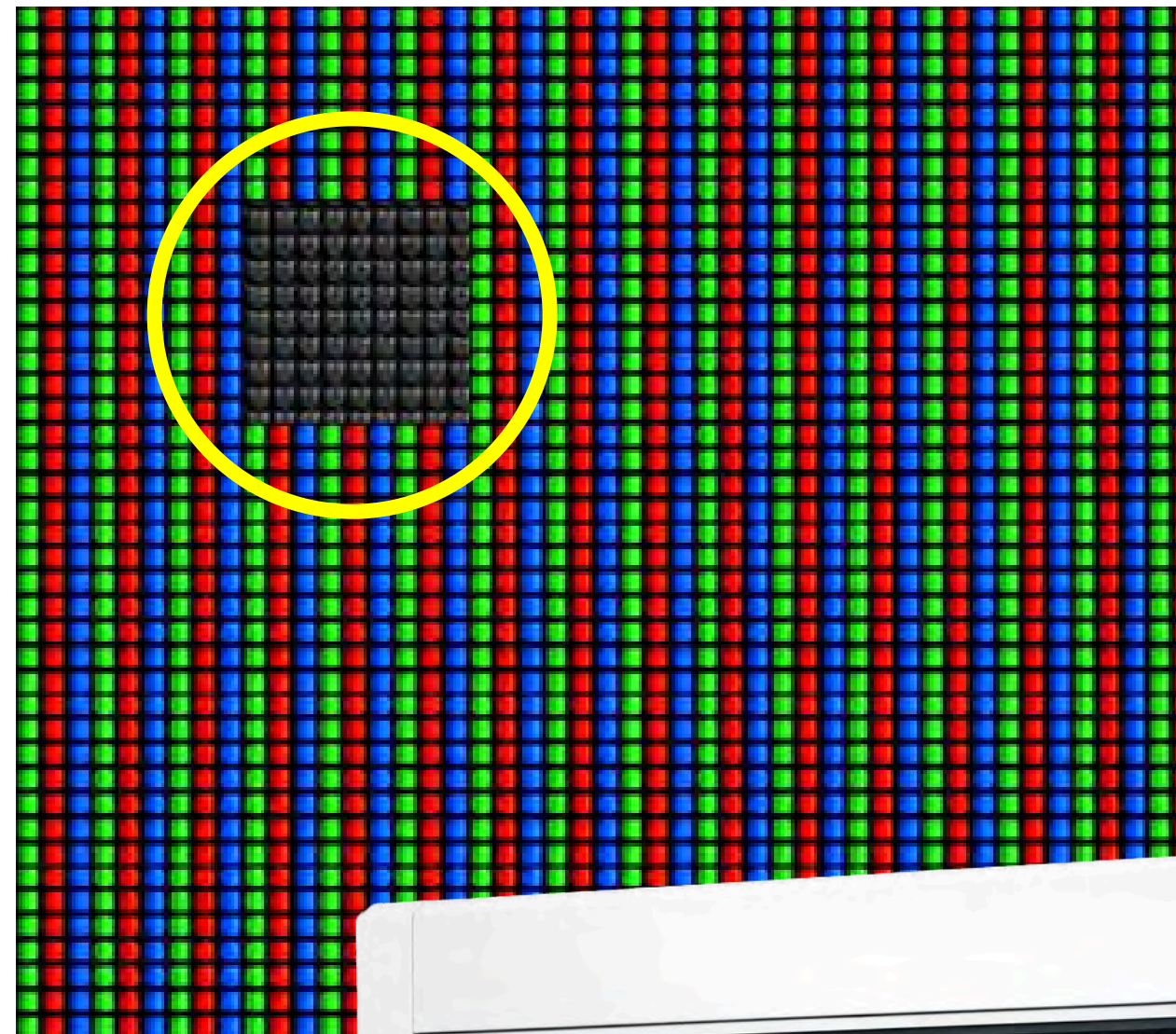
CM3588

Rockchip RK3588.

4x Cortex-A76 cores @ 2.4GHz

+ 4x Cortex-A55 cores @ 1.8GHz

NPU : 6 TOPS



[Conceptual Prototype Image]

AI Vision Inspection

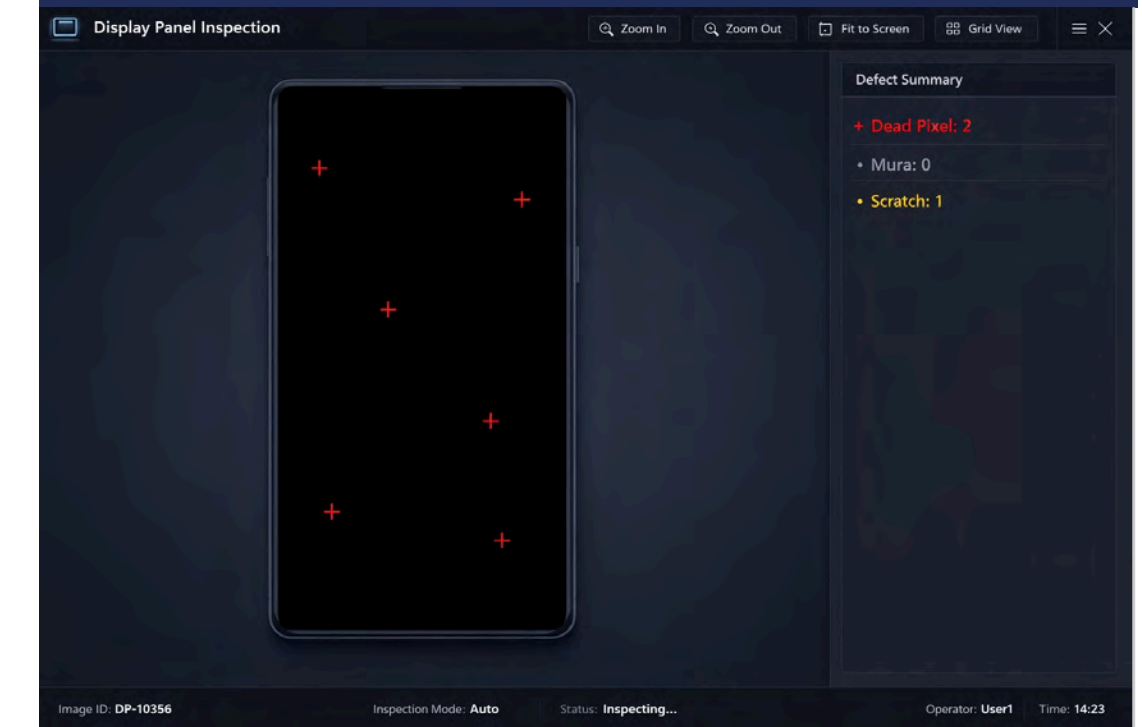
- Dead / Stuck Pixel Detection
- Color & Brightness Uniformity
- Mura (Stain) Analysis
- Gamma & Contrast Test

Camera Module



USB 3.0 / GMSL

Software



This screen is a conceptual example and may differ from the actual software.

Robot Control

Jetson Thor / Orin NX / AGX Orin

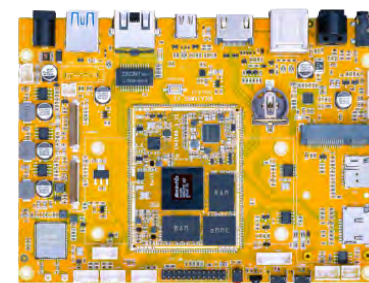


Intel CPU
Intel® Processor N-series SoC

+



NPU Edge box
Deepx edge AI processor



Processor : Rockchip RK3588S
octa-core processor, 4x Cortex-A76 cores
@ 2.4GHz + 4x Cortex-A55 cores @ 1.8GHz
NPU: 6 TOPS



[Conceptual Prototype Image]



Sensors & MIC / Speakers

- LiDAR / ToF sensor
- IMU / Vibration sensor
- MIC / Speaker board



Camera Module

- GMSL / Stereo / Depth Camera
Depth Algorithm Running on NVIDIA Platform
- Realsense D430 + HSF



Display Customizing (LCD)

- 5" (Round LCD Display)

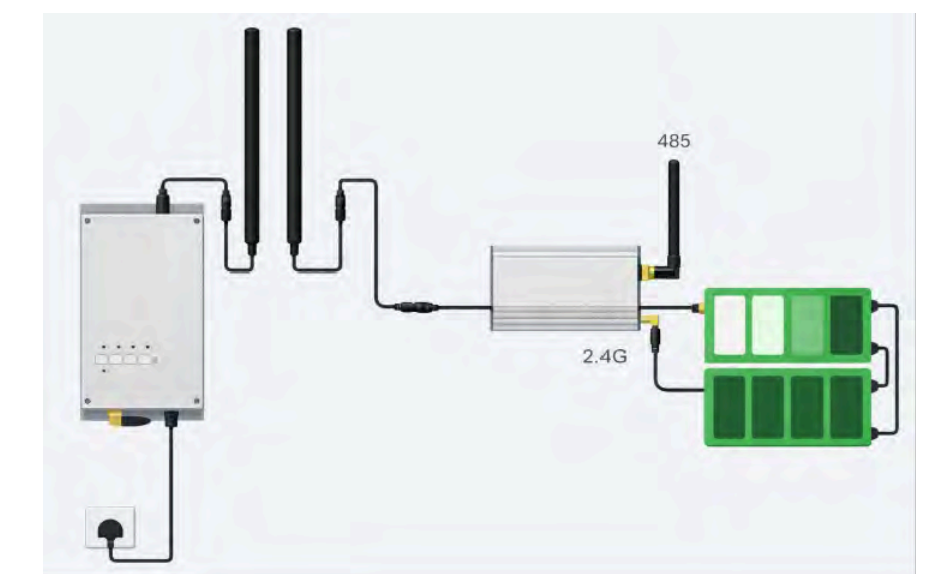


Charger & Battery

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



- Wireless charger





Thank you

귀사의 가장 든든한 파트너가 되겠습니다.
성공적인 미래를 함께 만들어가길 기대합니다.

제품 및 솔루션에 대한 추가 문의사항이 있으시면 언제든지 연락 주시기 바랍니다.

TEL +82-70-4130-7799 E-MAIL sales@y-not.kr HOME www.y-not.kr