



5G

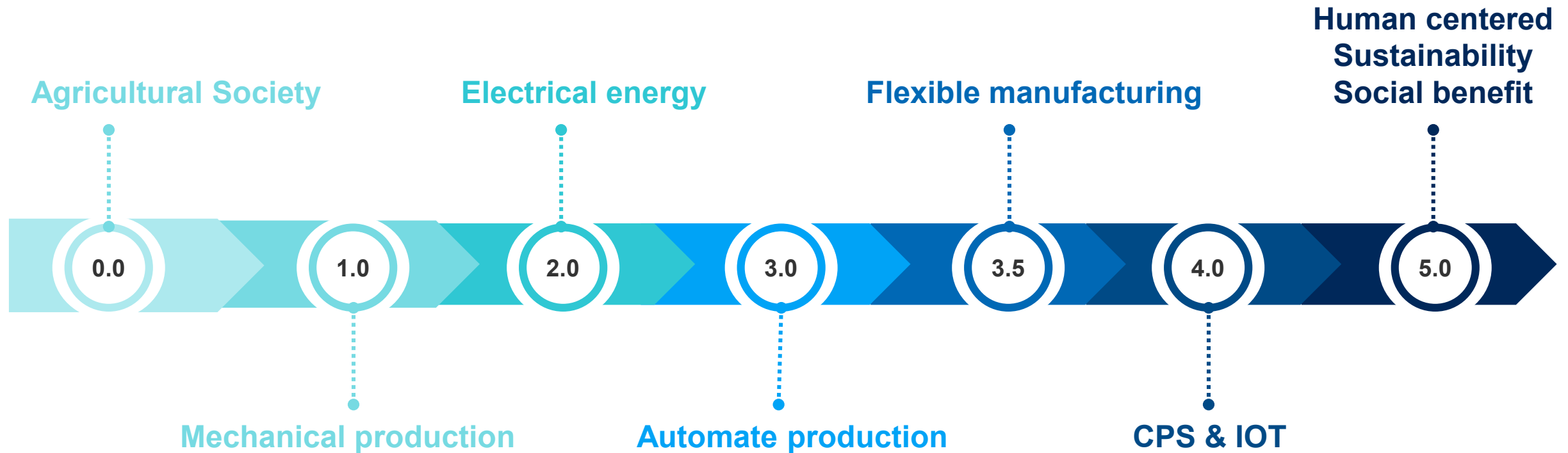
From Industrial 3.0 to Industrial 5.0

Ting Ting Product Manager

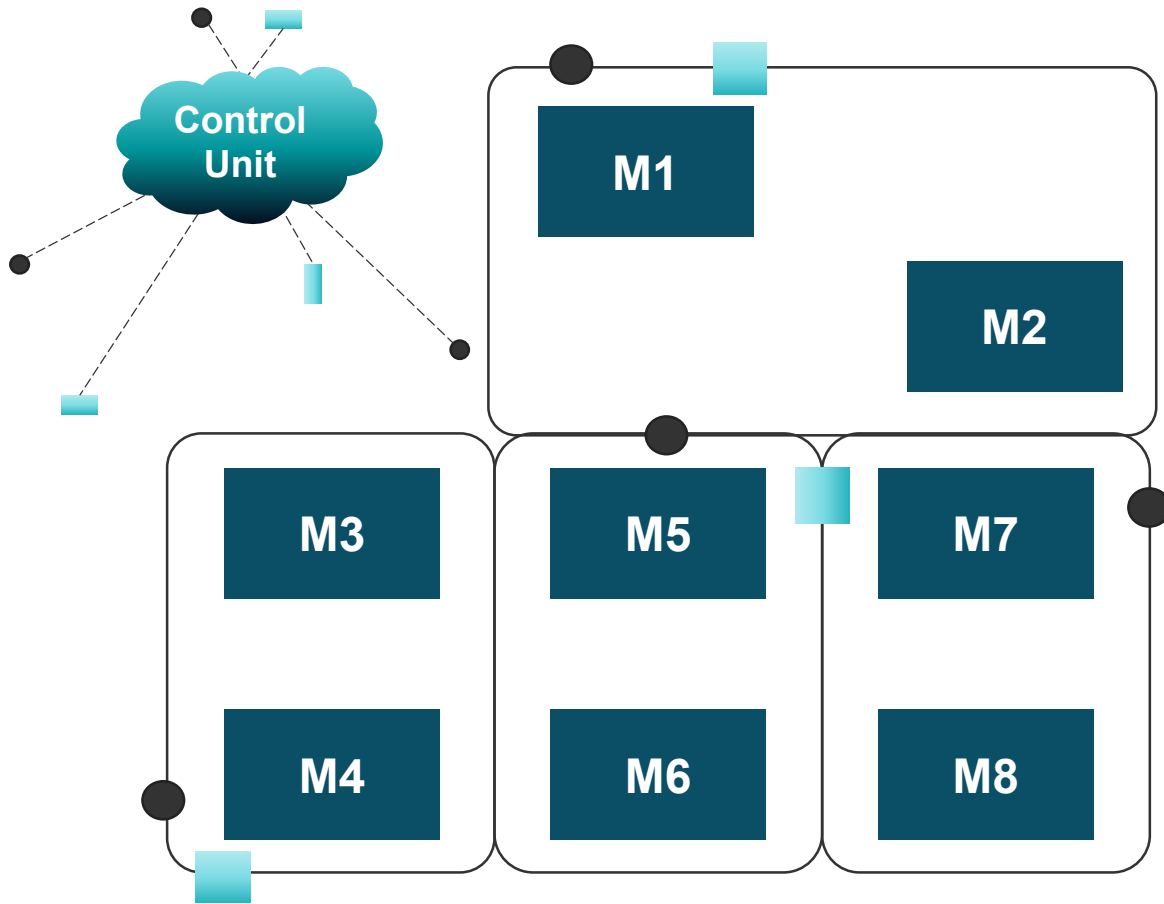
Enabling 5G & Intelligence at the EDGE

iEi®

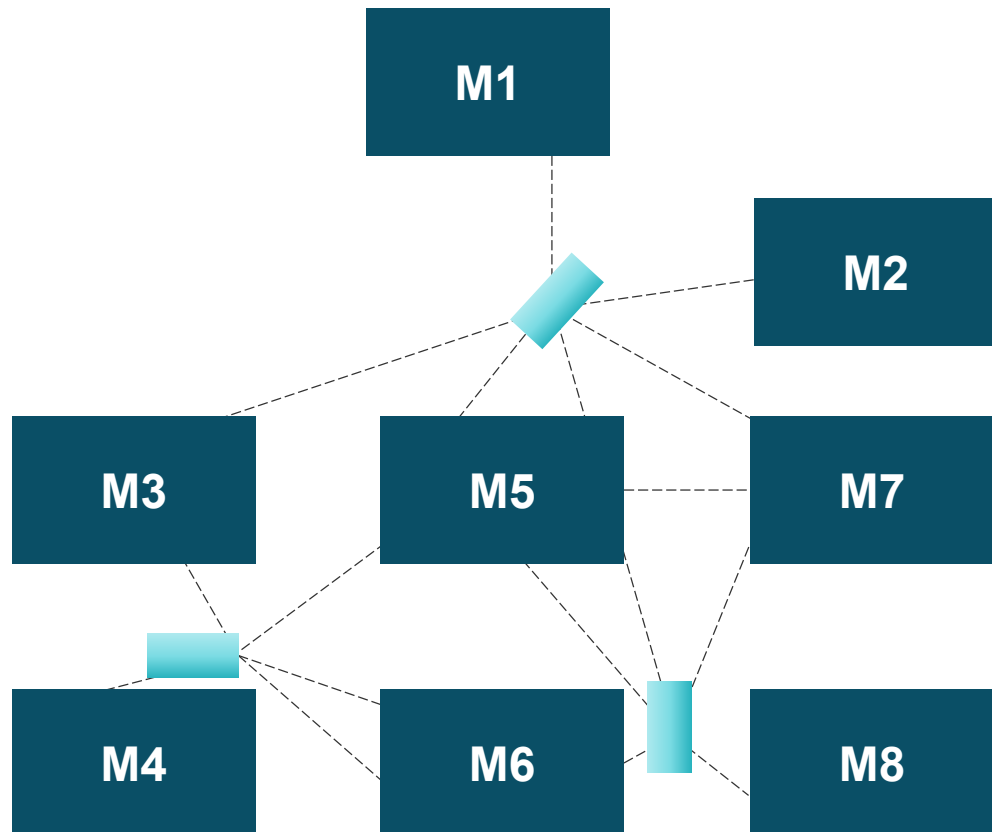
From Industrial 3.0 to Industrial 5.0



AGV In Control Layer

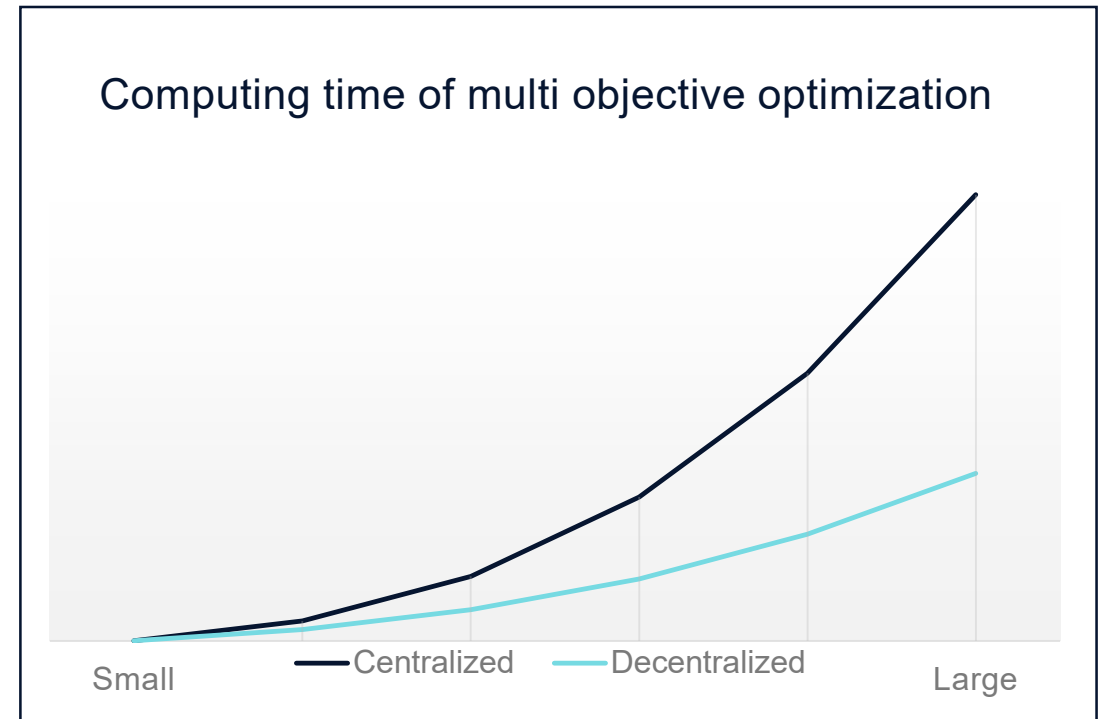
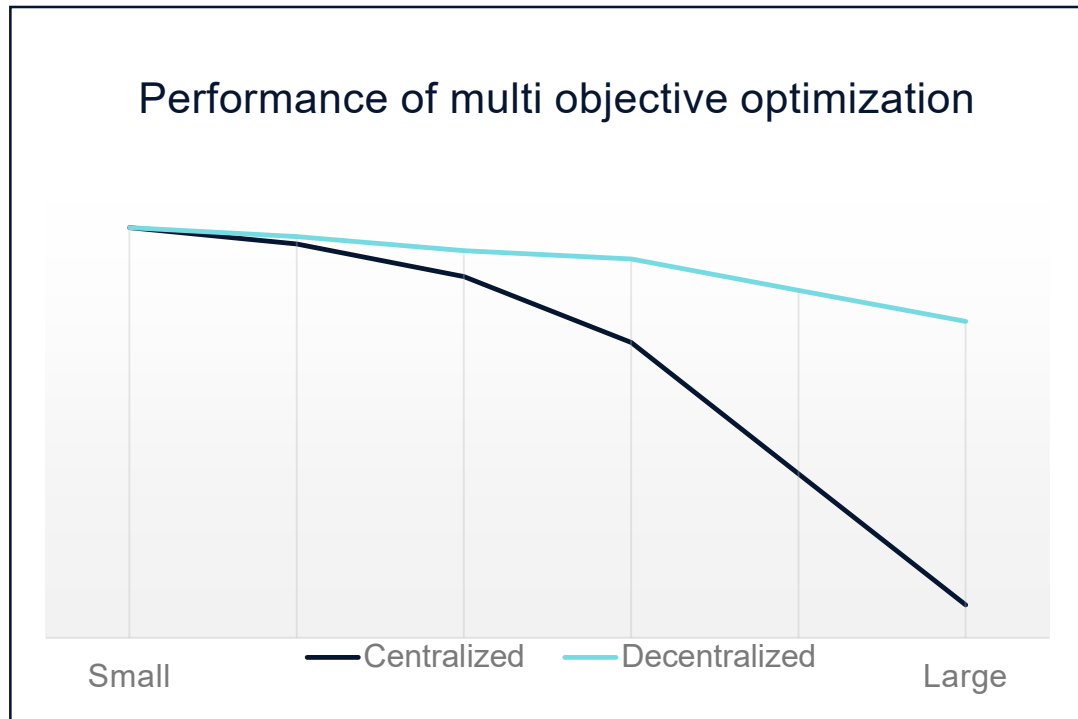


AMR In Control Layer



Why Decentralization

The central hierarchical system has been challenged by large fleet swarms, collaborative robots, and an increased variety of services provided. System performance is reduced by a centralized control hierarchy since it must take, and real-time communication for many decisions.



Algorithm for AMR

**Control
decentralization**

**Cooperate with
numbers and
types of
vehicles**

**Zoning and
service points**

**Resource
management**

Scheduling

Dispatching

Path planning

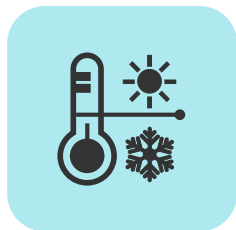
**Robustness and
resilience**



IEI Embedded System For AMR



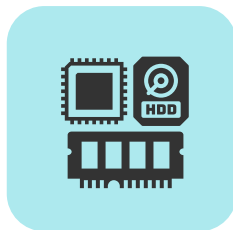
Optimized Mechanical
ID Design



Extended
OT



Thermal
Technology



Quick CTOS
Integration



Shock & Vibration
Resistant



CE/FCC

Industrial Automation System

TANK Series



DIN-Rail Embedded System

DRPC Series



Compact Size Embedded System

ITG / uIBX Series



Digital Signage Embedded System

IDS Series



TANK-XM810 / TANK-XM811



TANK-XM811 Features

- Supports 12th CPUs
- Support 35w and 65w CPU
- Dual independent display interface
- Support quick disassembly
- Multiple USB and multiple serial ports
- Modular design for easy expansion

Application

- Factory automation
- ATM
- Automatic ticket collection system
- Artificial intelligence reasoning system

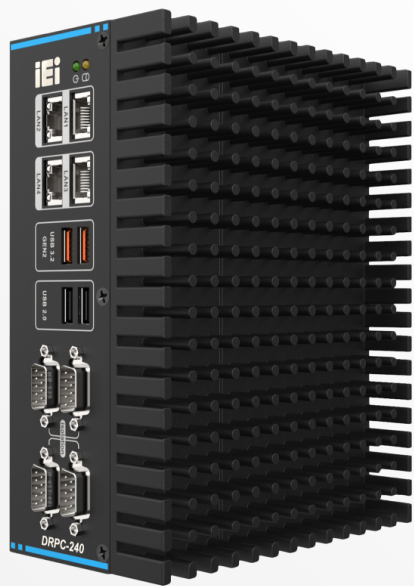
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DRPC-240-TGL-U / DRPC-W



DRPC-240-TGL-U Features

- Intel® Core™ i5-1145G7E/i7-1185G7E/ Celeron™ 6305
- Four 2.5GbE network interfaces (optional POE)
- Multiple IO interfaces
- Flexible expansion

Application

- factory automation
- energy management
- Factory production line
- AGV



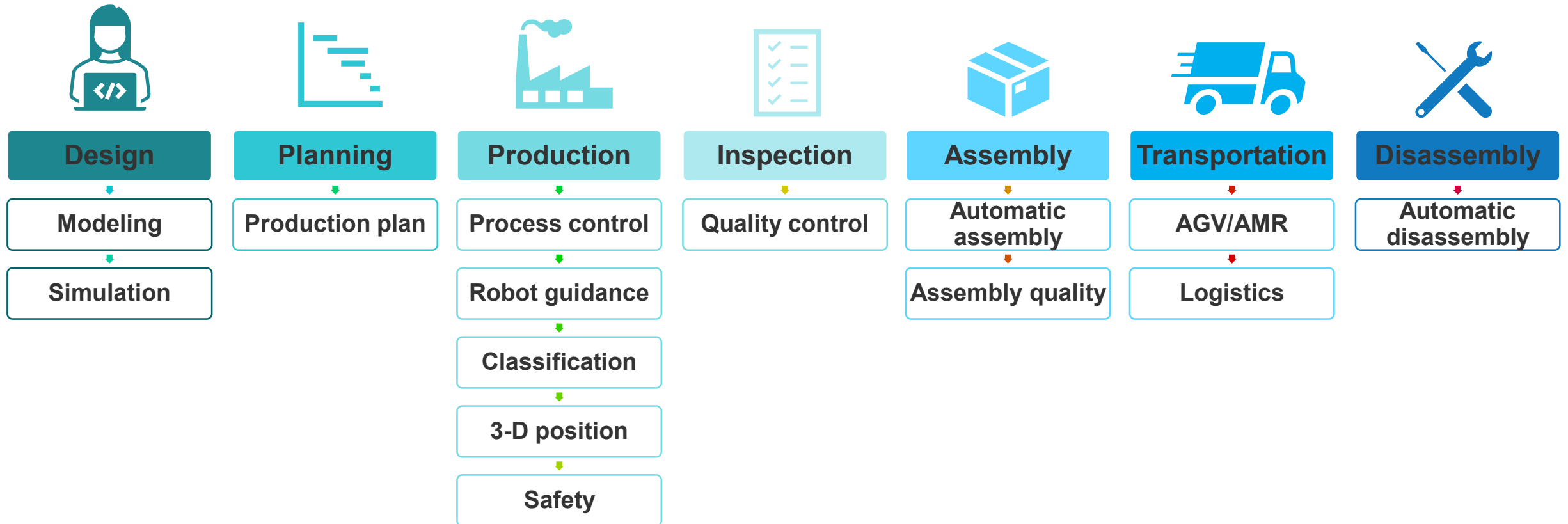
DRPC-W Features

- Support wafer series motherboards
- WAFER-TGL-U
- WAFER-EHL
- WAFER-JL
- Compact size design

Application

- factory automation
- ATM
- Automatic ticket machine
- artificial intelligence inference system

Computer Vision In Manufacturing

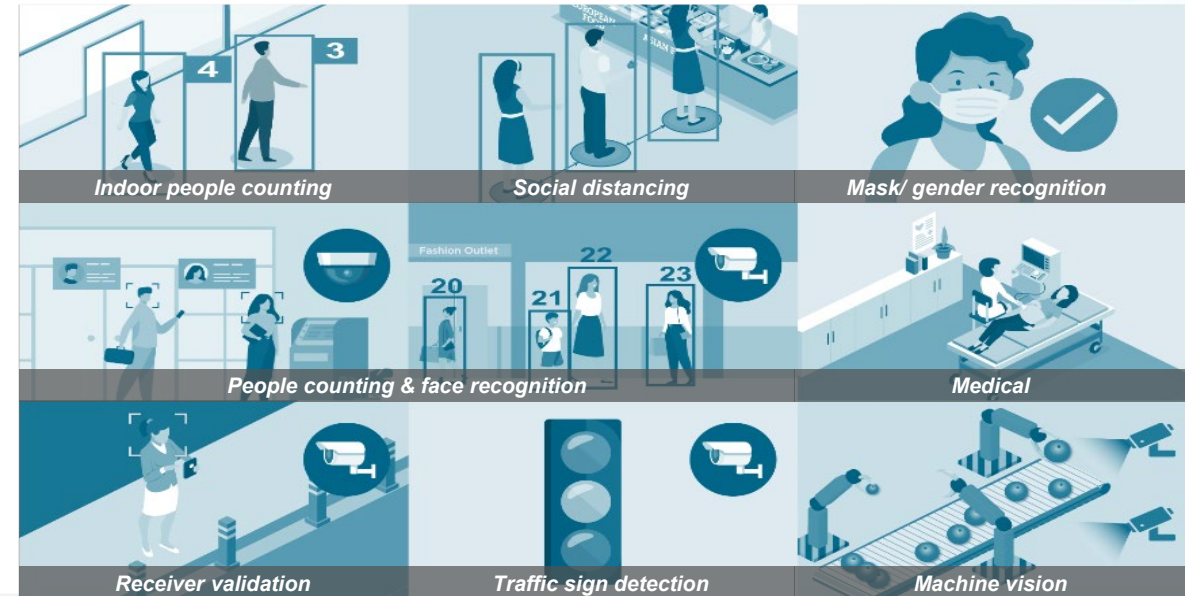


IEI AI Solution For CV

- High workload with optimized thermal design.
- Powerful AI inference capability with VPU.

OpenVINO™

TensorFlow Lite



AI Accelerator PCIe Card



AI Accelerator M.2 Module



AIoT Dev. Kit



OpenVINO™

Network AIoT Dev. Kit



OpenVINO™

AI Box PC



FLEX-BX210-Q470



FLEX-BX210-Q470 Features

- Support Intel 10th/11th CPU
- Four hot-swap hard drive bays support RIAD 0 1 5 10
- 4 x USB 3.2 Gen2
- Multiple PCIe expansion slots
- Internal multi-expansion

Application

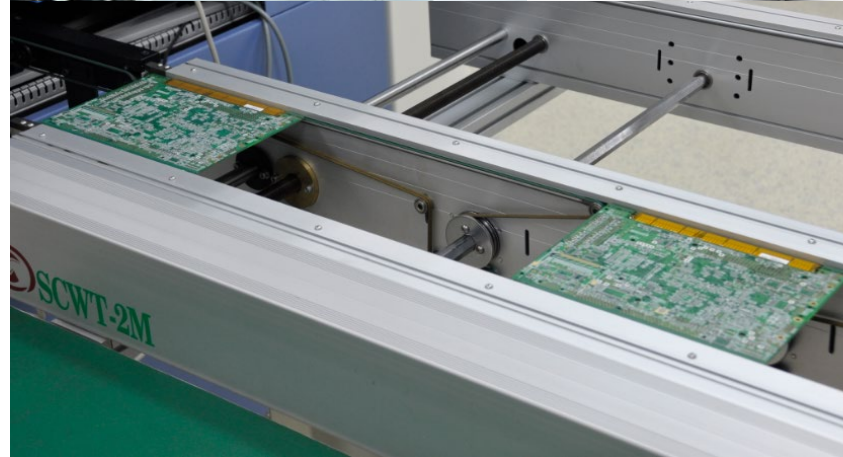
- Edge computing
- Factory automation

AI Small Box For Industry

- AOI inspection
- Robot arm control

Small Box PC

Tango Series



TANGO-3010 / TANGO-7010



TANGO-3010 Features

- Intel® Celeron J6412
- 2 x HDMI 1.4b up to 4k
- Support multiple USB ports

Application

- Digital Signage
- Smart factory gateway



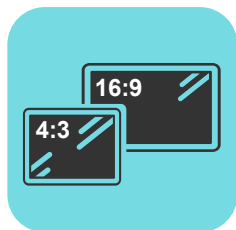
TANGO-7010 Features

- Intel® ADL-S Core™ I
- 2 x HDMI2.0 up to 4k
- 1 x DP ++ up to 4k
- Support multiple USB ports

Application

- Digital Signage
- Smart factory gateway

Industrial Touch Panel PC and Monitor



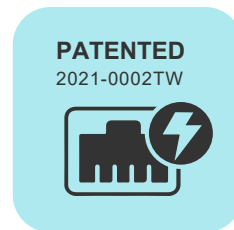
Scalability In Panel Sizes



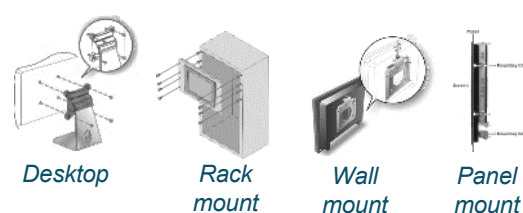
Front Panel IP64/65 Waterproof



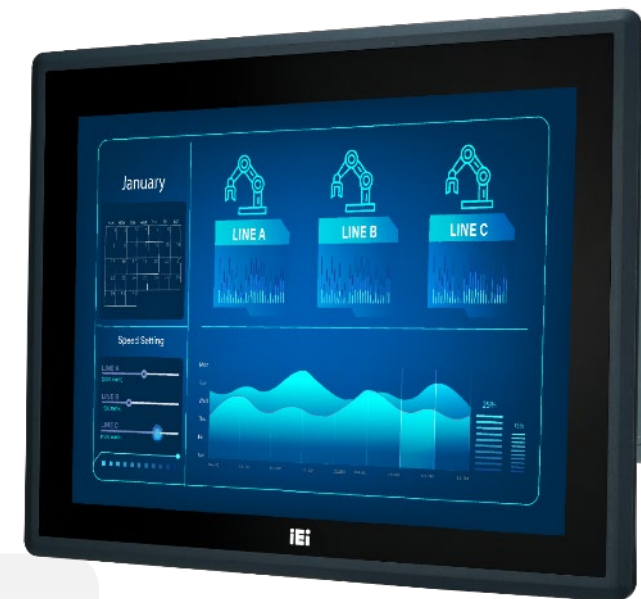
10-point AG PCAP touch with anti-UV



PoE PD Device



Versatile Mounting Methods



IP64 Slim Panel PC

AFOLUX Series



IP65 Rugged Panel PC

PPC-F Series



Industrial Monitor

DM-F Series



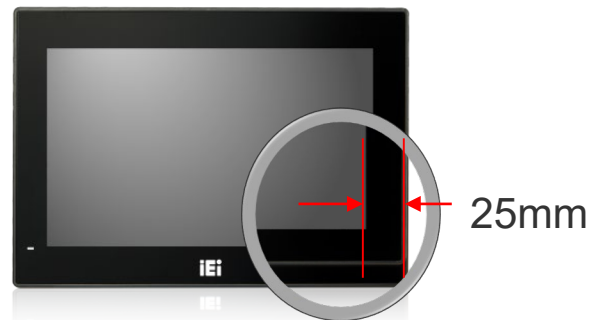
IEI AFL4 Series



AFL4



AFL3



Features

- Intel® Elkhart lake & Alder Lake -P
- Fanless design
- Narrow bezel design
- Support Wi-Fi 6E and Bluetooth 5.2
- Support 2.5GbE Lan port x2
- Support M.2 2242/2280

Application

- Self service
- Retail

IEI PPC2 Series



Features

- 8"~W21.5" Heavy Industrial Panel PC
- Intel® Elkhart lake & Alder Lake -S
- IP65 waterproof design
- Support 2.5GbE Lan port x2
- Support M.2 2242/2280
- Anti-Glare& Anti-UV Capacitive

Application

- Factory automation
- Power Industry
- Warehousing
- Visual inspection



Thank You



iEi®