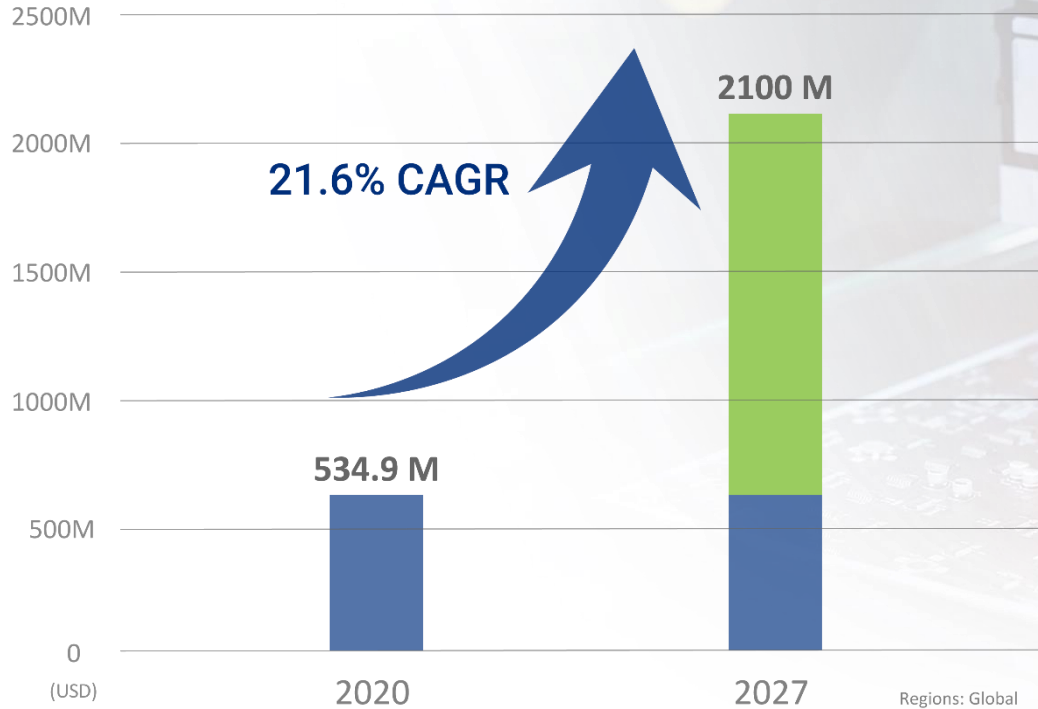


# ASRock Industrial IPC equipped with Intel EII and Microsoft EFLOW for AI AOI workload consolidation



## Automated Optical Inspection Systems Global Market



# Industry Challenge



Labor Shortages



Complex Process

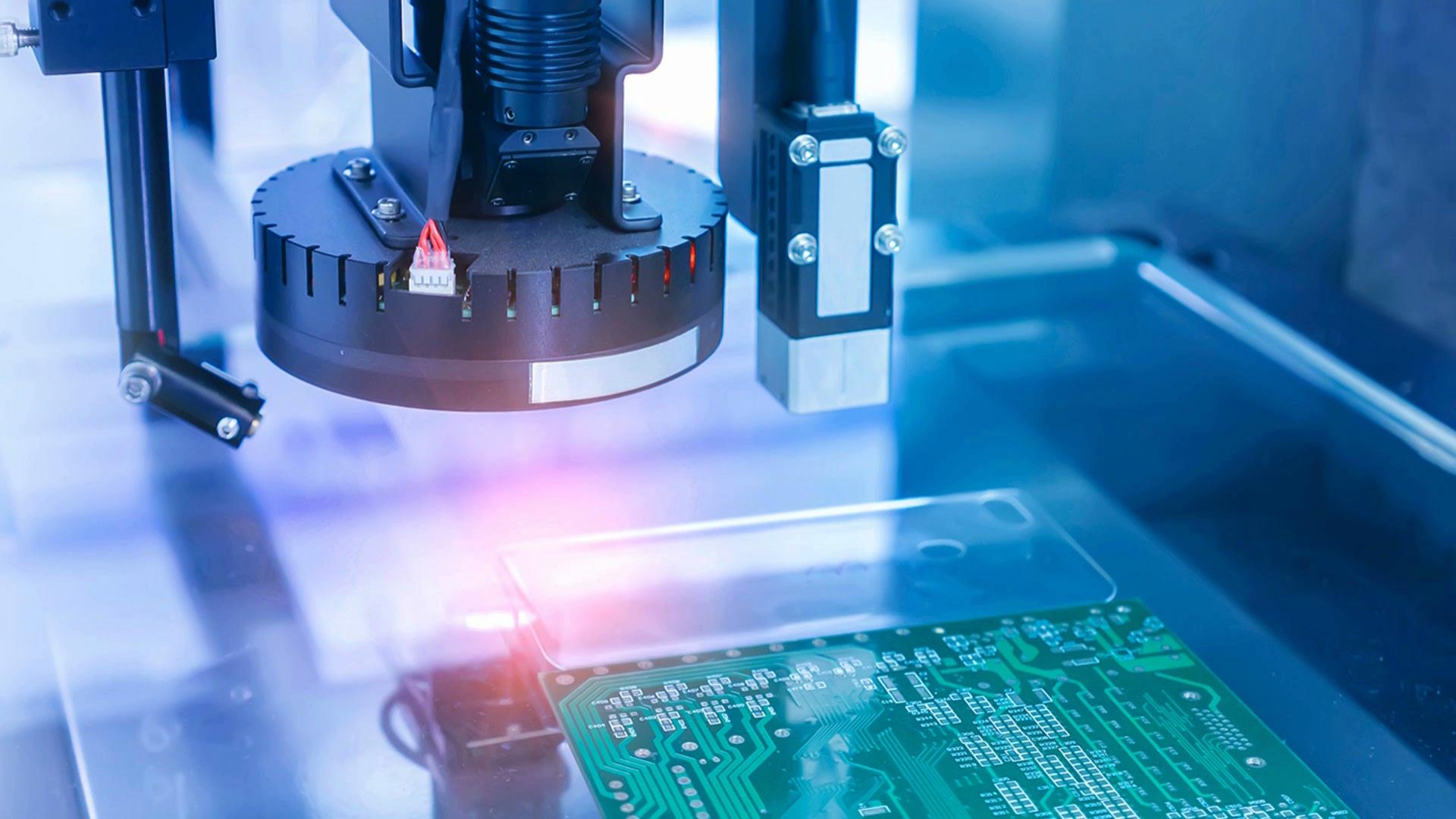


Inconsistency of  
Inspection Accuracy

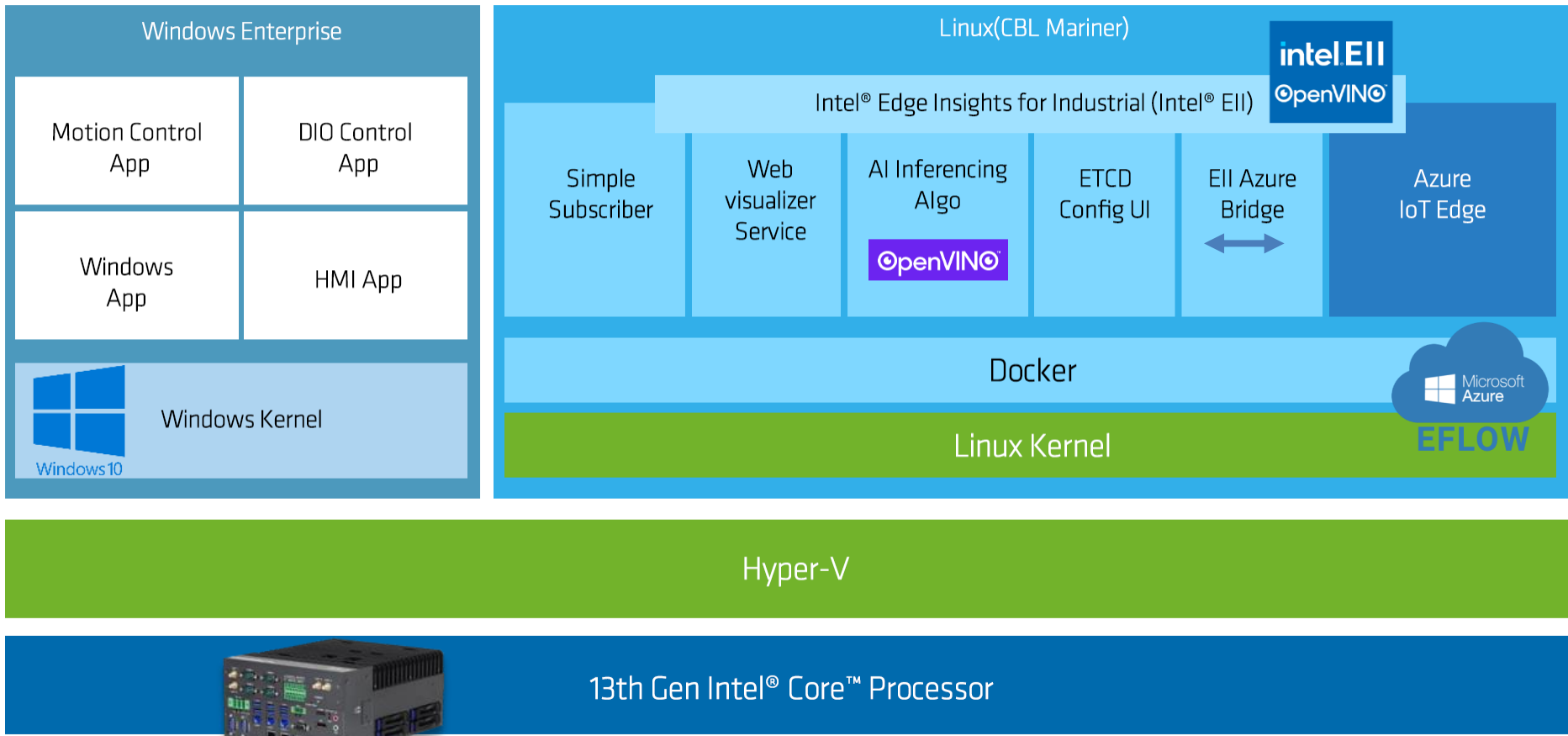


Low Effectiveness





# Architecture



13th Gen Intel® Core™ Processor

# Windows 10 IoT Enterprise LTSC



All the power of  
Windows



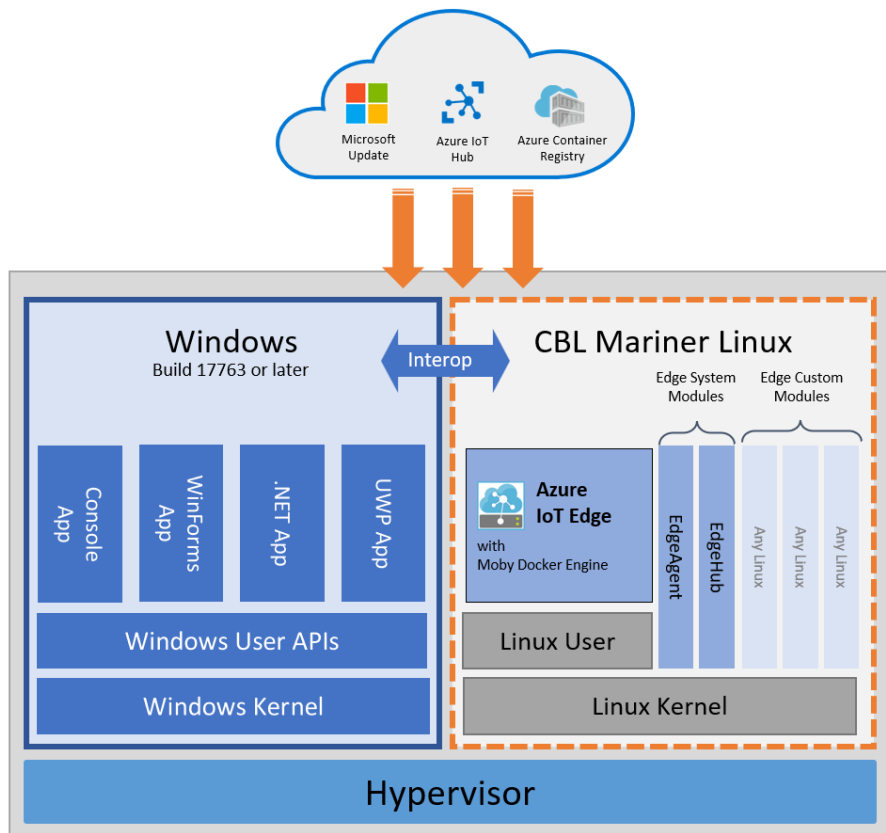
Specialized features  
for dedicated devices



Longevity



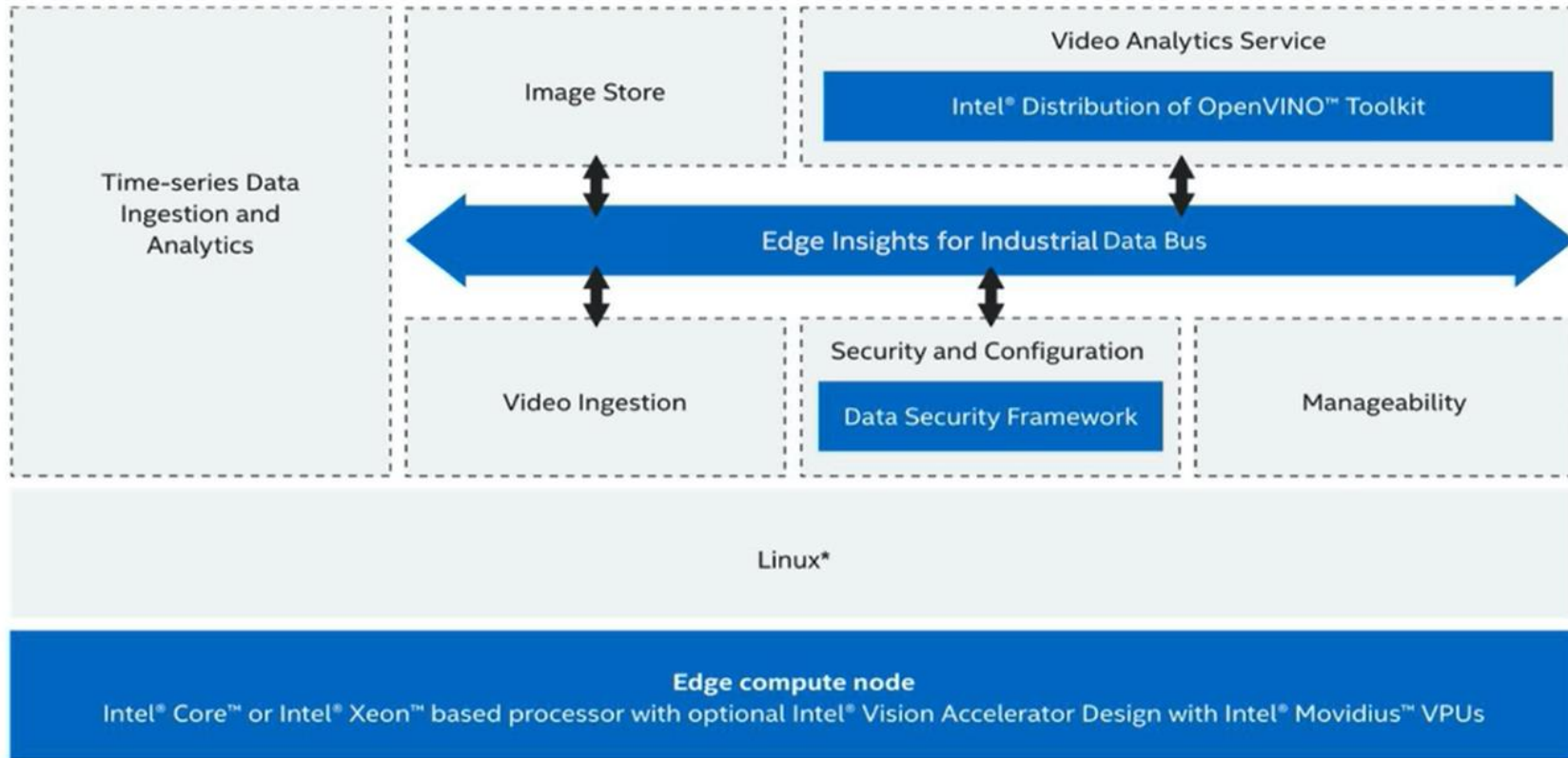
Windows 10  
security in its DNA



## Azure IoT Edge for Linux on Windows (EFLOW)

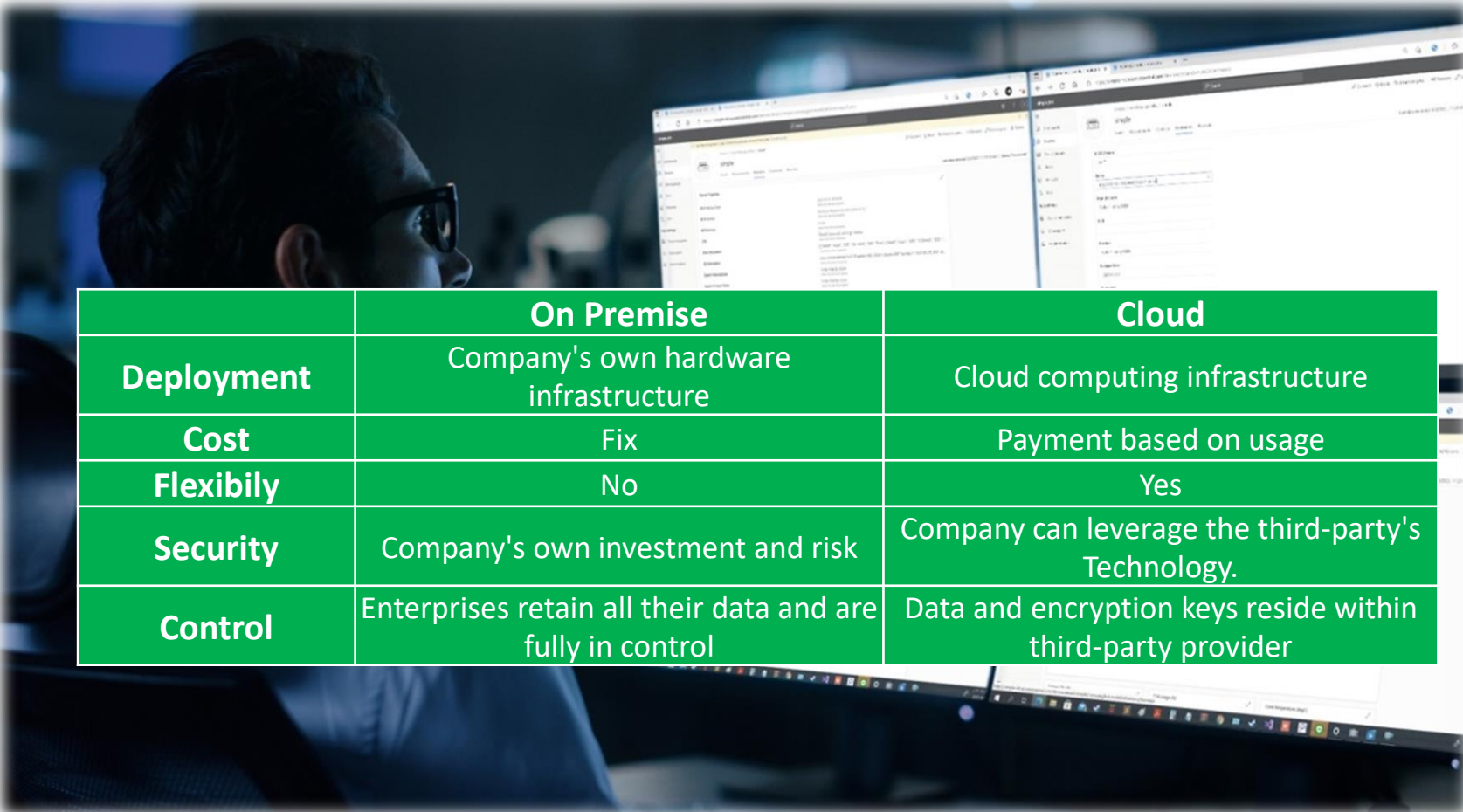
- ✓ Type1 Hypervisor
- ✓ CBL Mariner Linux
- ✓ To run containerized AI Linux workloads
- ✓ Windows to power the legacy devices
- ✓ Azure Cloud services

# Intel Edge Insights for Industrial

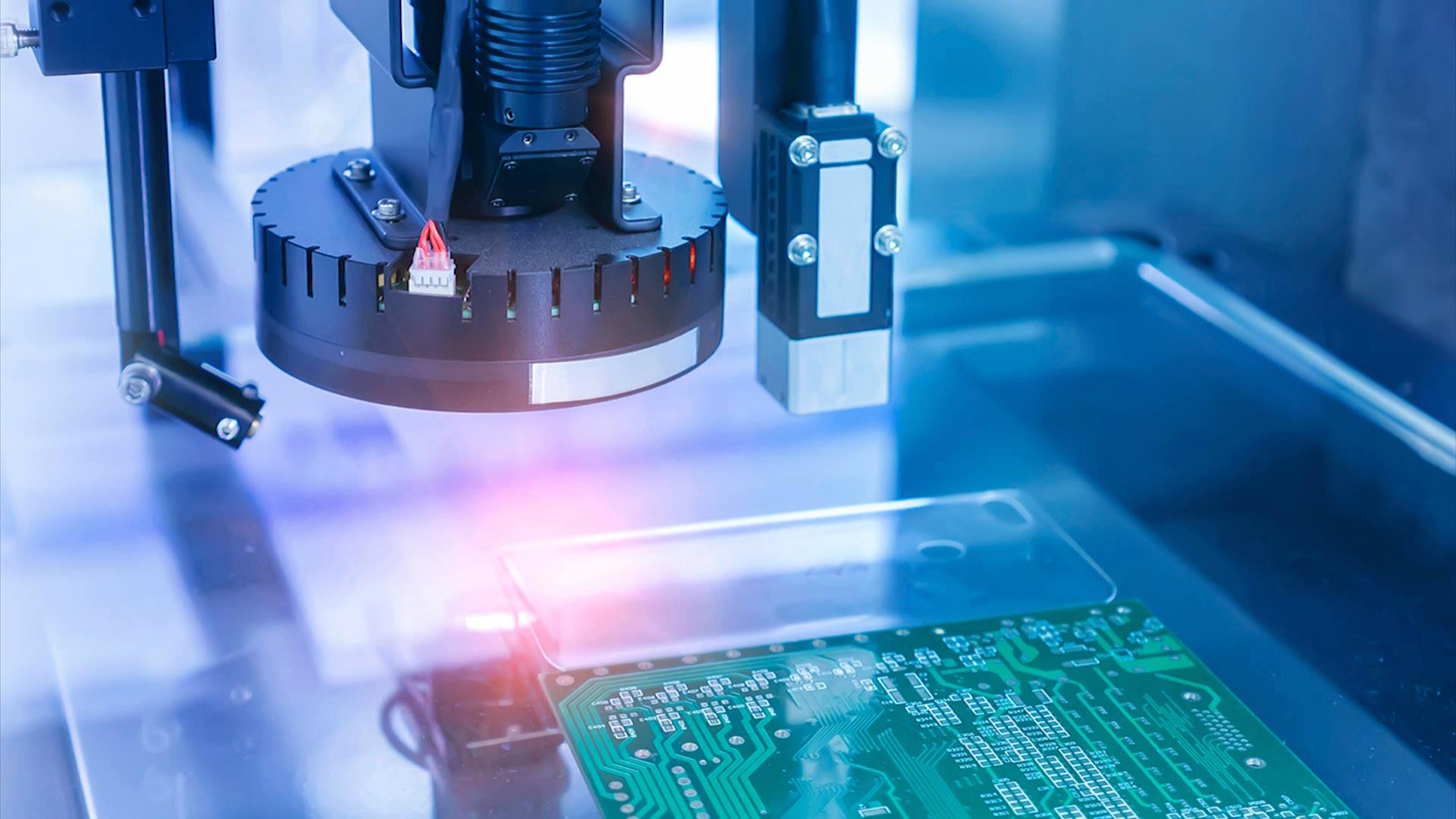




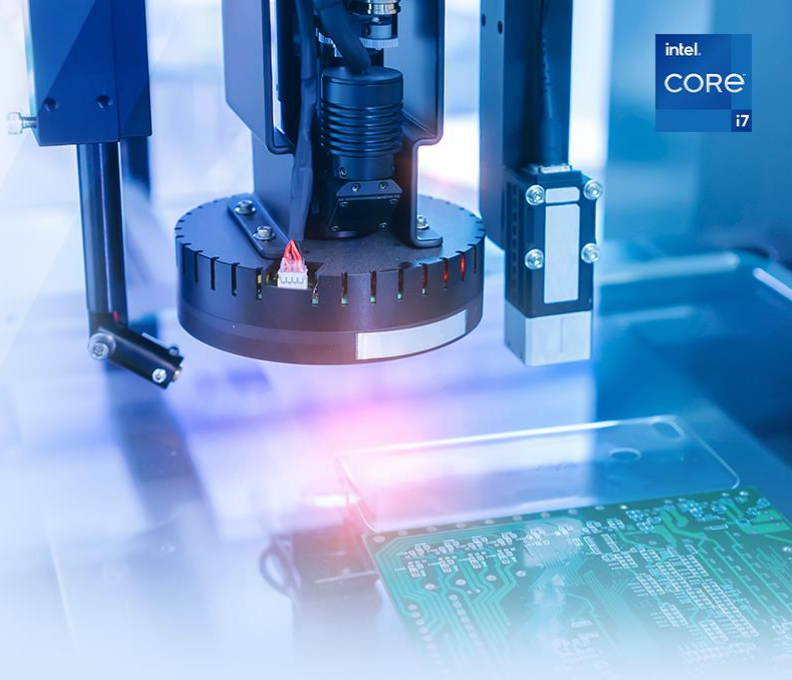
# On Premise or Cloud option



	On Premise	Cloud
Deployment	Company's own hardware infrastructure	Cloud computing infrastructure
Cost	Fix	Payment based on usage
Flexibility	No	Yes
Security	Company's own investment and risk	Company can leverage the third-party's Technology.
Control	Enterprises retain all their data and are fully in control	Data and encryption keys reside within third-party provider



# AI AOI Workload Consolidation



13th generation Intel®  
Core™ processor



Rugged design for  
Industrial environment



Fast development using  
Edge Insights for Industrial



Rich IO & connectivity  
TSN & Intel® TCC



Linux AI Workload  
Consolidation with Windows



Connecting Edge to Cloud



# ROBUST EDGE AIOT PLATFORM



iEPF-9020S Series

iEP-9020E Series



13th Gen Intel® CPU



Rich IOs & Expandability



Real-time Connectivity



Rugged Design



Workload Consolidation

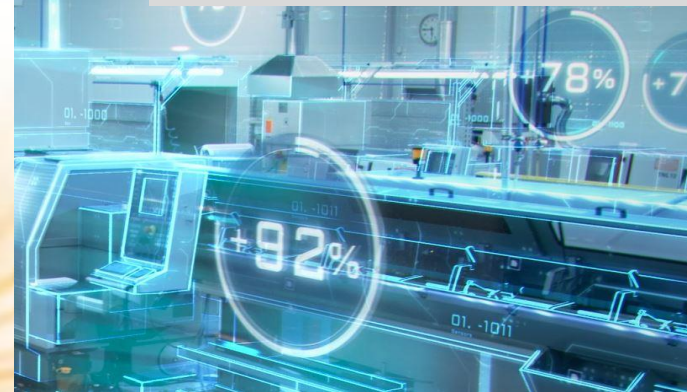
# Various Industrial Mission-Critical Application

## Robotic Control



iEPF-9020S Series

## Manufacturing Automation



iEP-9020E Series



Autonomous Vehicle



Smart Pole



# iEP-7020E Series

## INDUSTRIAL IOT CONTROLLER



13<sup>th</sup> Gen Intel® CPU



AI Acceleration



Rich IOs/Expansions



Real-time Connectivity



Rugged Design



# The Best AI Accelerator

## Edge AI inference



Buffer-fly DRAM design  
for the Best Thermal  
Performance

**Fast GPU image  
classification inference  
performance with  
up to 96 EUs**

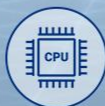


128-bit Dual Channel DRAM(VRAM)  
to meet iRIS Xe Brand requirement.  
The Best iGPU Inference Engine.



# iEP-5000G

## INDUSTRIAL IOT CONTROLLER



Powerful Intel® Atom® x6000E Processor



Rich RF Connectivities



Flexible I/Os & Expansions



Real-time TCC/ TSN



Compact & Rugged Design



Wide Operating Temperature

# iEP-5010G

## INDUSTRIAL IOT CONTROLLER



Powerful Intel® Atom® x6000E Processor



Real-time TCC/ TSN



Flexible IOs & Expansions



Intel® In-Band ECC



Fan-less and Rugged Design



-40 ~ 70 °C Wide Operating Temp.



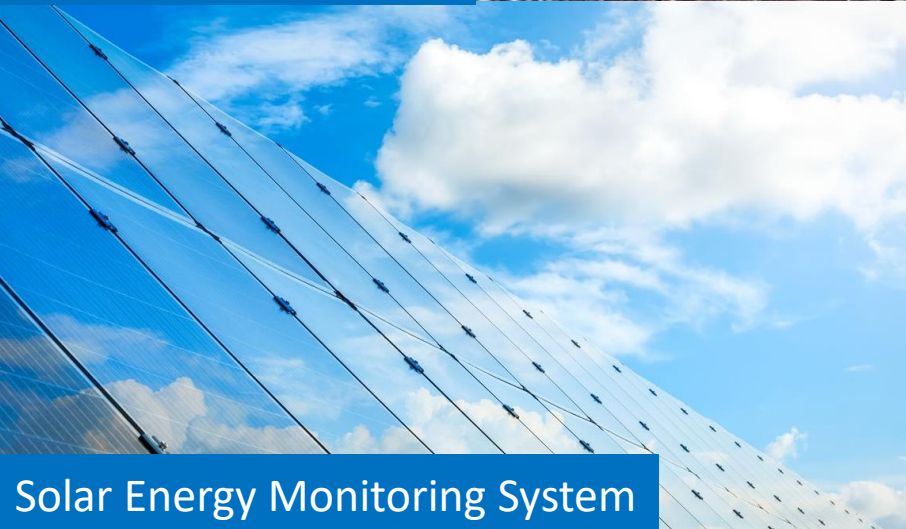




Process Automation



EV Charging Stations



Solar Energy Monitoring System



Intelligent Agriculture



Thank you for your attention!

