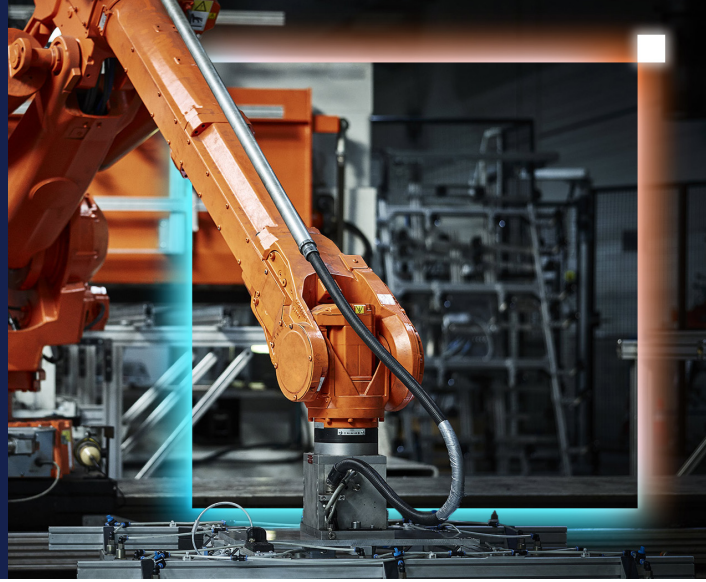


# Real-Time Edge AI Platform for Industrial Worker Safety

ARCsafe



*By leveraging Intel® technologies, ARCSafe by Circulus, onboarded to ASRock Industrial NUCS BOX-255H, helps manufacturers address the limitations of delayed cloud-based safety systems and passive CCTV, enabling real-time hazard detection, faster incident response, and improved worker safety.*

ARCsafe, developed by Circulus, is an AI-powered worker safety platform built for smart manufacturing environments. Onboarded to the compact and powerful ASRock Industrial NUCS BOX-255H system, this advanced solution transforms standard CCTV cameras into real-time safety intelligence networks directly at the edge. By integrating ARCSafe advanced software with this compact, Intel-powered system, the solution delivers secure, low-latency, and energy-efficient on-device computing to enhance industrial safety and automation across smart manufacturing environments.

Powered by Intel® Core™ Ultra Processors with integrated Intel® Arc™ graphics, ARCSafe leverages heterogeneous CPU, GPU, and NPU resources to efficiently run complex computer vision models without discrete GPUs. By integrating the OpenVINO™ toolkit and oneAPI Deep Neural Network Library (oneDNN), it ensures high-performance, energy-efficient edge inference with low latency. ARCSafe actively detects unsafe behaviors, hazard zone entries, missing PPE, and fatigue, delivering instant alerts while preserving data privacy and reducing manual supervision. This Intel-optimized edge integration dramatically reduces industrial injuries and operational downtime.

***ARCsafe by Circulus delivers real-time worker safety through edge AI, enabling proactive hazard detection, reduced downtime, and faster incident response without cloud dependency.***

## Intel Products & Technologies Accelerating AI and analytics at the edge



[Intel® Core™ Ultra  
Series 3 Processors](#)



[Intel® Arc™ Pro  
B-Series Graphics](#)



[Intel® oneAPI  
Toolkit](#)



[OpenVINO™ Toolkit](#)

# Key Intel-Enabled Features

Real-Time AI and analytics make it easy



Real-Time Edge AI



Safety Detection



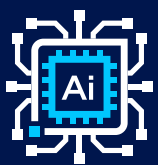
Low-Power Inference



Ready for Humanoid

Powered by Intel® processors and optimized with OpenVINO™ toolkit, Circulus and ASRock Industrial deliver:

01



Intel® CPU, GPU, and NPU enable fast edge AI inference

02



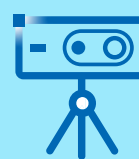
The OpenVINO™ toolkit optimizes computer vision for safety

03



oneDNN boosts deep learning, reducing power

04



Supports dense camera streams without discrete GPUs

That's the power of Intel Inside®.

## Country/Geo:

US/Canada  
Asia Pacific, Japan, Australia  
and New Zealand

## Verticals:

Robotics; Video Safety &  
Critical Infrastructure

## Use Cases:

Vision Guided Robots; Public  
Safety & Enterprise Security

## About Circulus

Circulus develops ARCSafe, an AI-powered worker safety platform built for manufacturing environments. Running at the edge, ARCSafe transforms standard CCTV cameras into real-time safety systems to detect hazards on-device. Backed by Intel hardware, it reduces industrial incidents and operational downtime while maintaining secure, low-latency, and private processing.

[arcsafe.circul.us/](https://arcsafe.circul.us/)

[ARCSafe - Edge AI Partner Spotlight](#)

intel ai

Intel® AI Edge Applications

## About ASRock Industrial

Founded in 2018, ASRock Industrial focuses on industrial motherboards, edge computers, and AIoT solutions for B2B markets worldwide. A global leader in Industrial PC motherboards, it emphasizes R&D, customization, and partnerships to deliver high-performance, flexible solutions across CARES industries and aims to lead in AIoT innovation.

[www.asrockind.com/en-gb/](https://www.asrockind.com/en-gb/)

[ASRock NUCS BOX-255H - Edge AI Partner Spotlight](#)

intel ai

Intel® AI Edge Systems

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