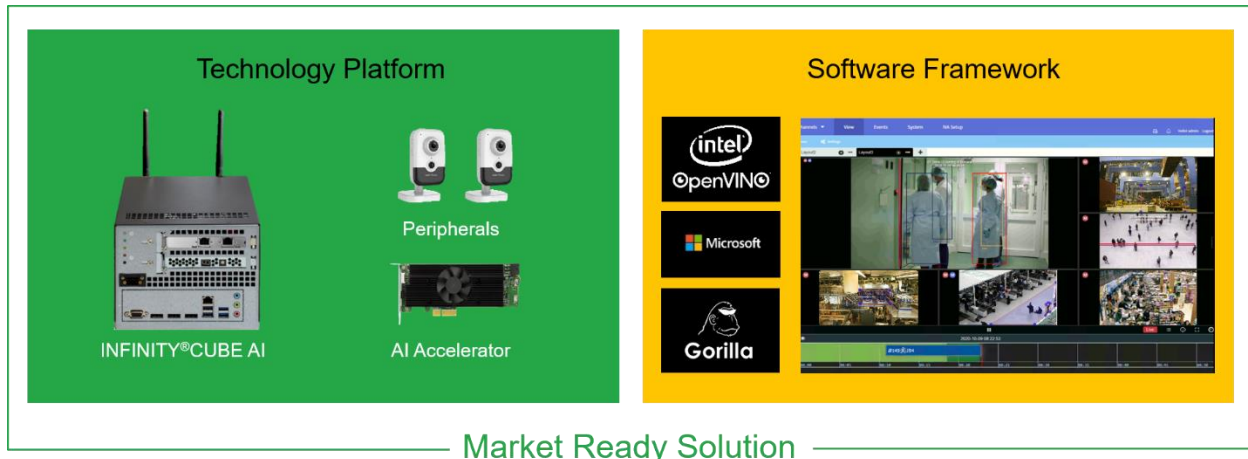# AI Vision
Brochure

Our AI Vision solution enables any company, from system integrator to software developer, to evaluate, customize and scale computer vision solutions with artificial intelligence extremely easily and quickly. Therefore our ready-to-use system platform includes powerful hardware components and software with optimized artificial intelligence (AI).
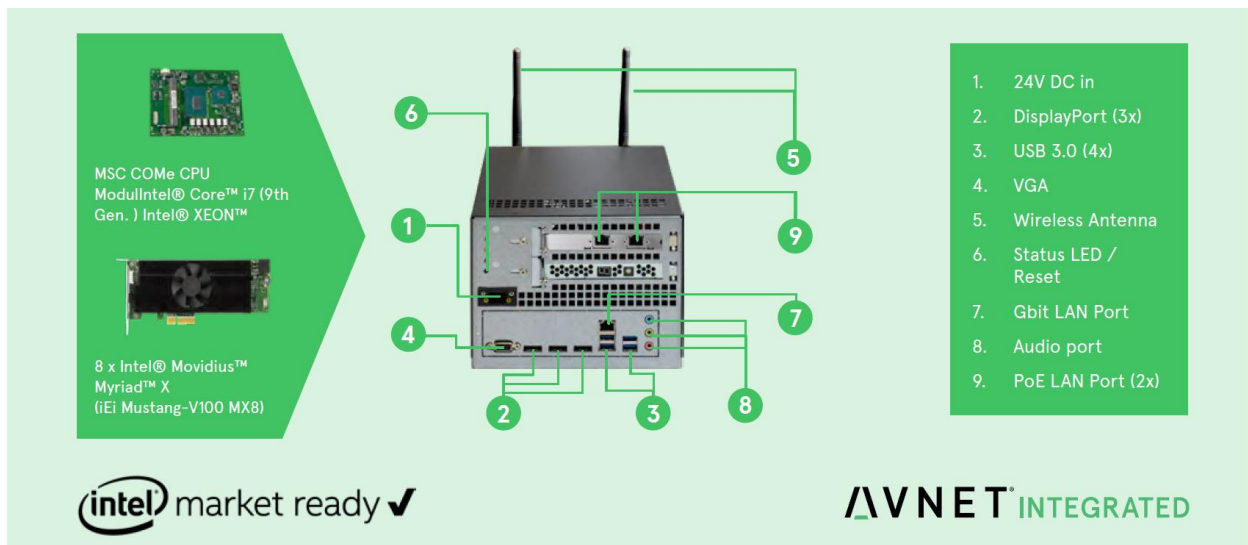
Market Ready Solution – AI Vision

Technology Platform — INFINITY®CUBE AI, Peripherals, AI Accelerator

Software Framework — intel OpenVINO, Microsoft, Gorilla

Market Ready Solution

Avnet Integrated's innovative intelligent-vision technology platform is based on powerful embedded computing technologies and the use of artificial intelligence (AI). The market-ready solution is designed for deep learning supported video analytics tasks at the edge. The ready-to-use system platform includes powerful hardware components and software with optimized AI.

Avnet Integrated's Intelligent Vision Platform improves AI

MSC COMe CPU ModulIntel® Core™ i7 (9th Gen.) Intel® XEON™

8 x Intel® Movidius™ Myriad™ X (iEi Mustang-V100 MX8)

intel market ready ✔

AVNET INTEGRATED

1. 24V DC in
2. DisplayPort (3x)
3. USB 3.0 (4x)
4. VGA
5. Wireless Antenna
6. Status LED / Reset
7. Gbit LAN Port
8. Audio port
9. PoE LAN Port (2x)

Computer vision combines smart cameras, edge- or cloud-based computer technologies, software and artificial intelligence for the realization of systems that can detect and identify people and objects. Avnet Integrated's intelligent vision technology platform is designed for deep learning supported video analytics at the edge.
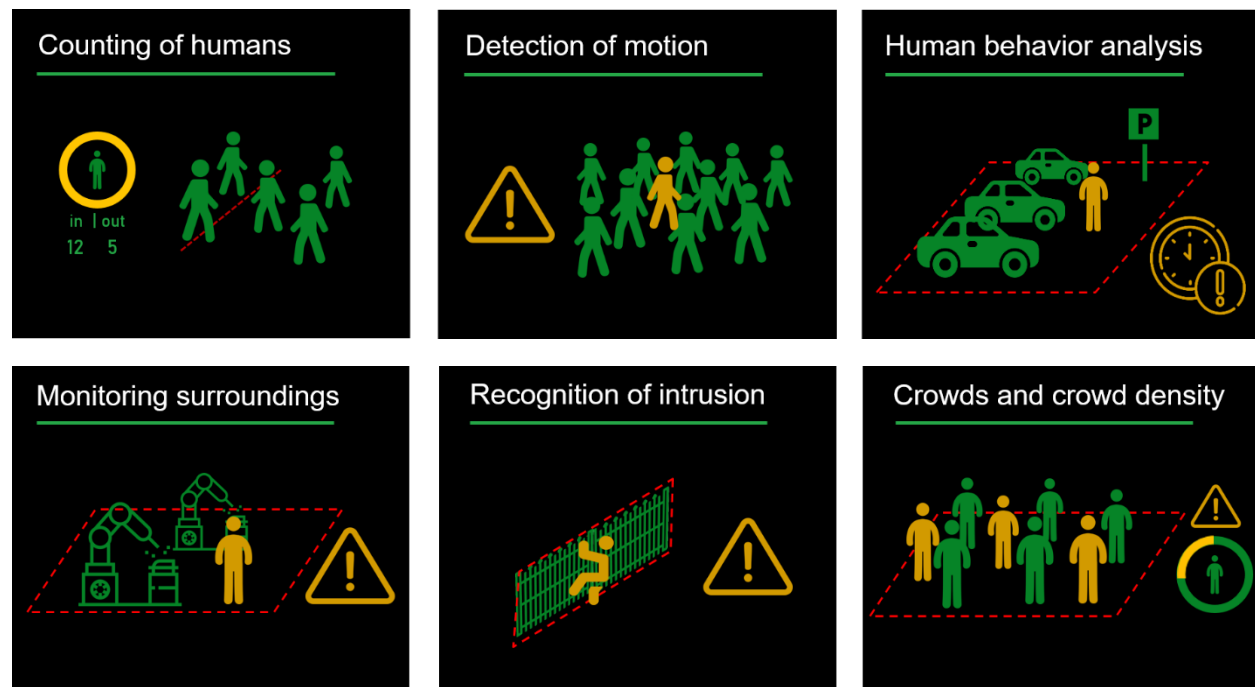
For these high-performance applications, the intelligent vision platform is equipped with the extremely powerful COM Express™ Type 6 module of the MSC C6B-CFLR family from Avnet Integrated, which is based on an Intel® Core i7 or Intel® Xeon™ processor.

The technology platform can integrate various accelerator technologies for fast data processing at the edge. Depending on the specific application, the number of video channels and the latency time play roles. The solutions range from AI inferencing on powerful CPUs, graphics processing units to the optimized Intel® Movidius Vision Processing Units (VPUs).

Market Ready Solution – Pre-installed functionalities

No matter if you want to count humans, detect motions or analyze human behavior the different functionalities are easy to use and to adapt to your environment and application. You may be surprised how easy it is to do this with our Market Ready Solution in your application.

Optional functionalities: GDPR compliant face recognition, License plate identification

Market Ready Solution – Versatile fields of application

Computer vision solutions account for a significant share of the global market for future promising applications based on artificial intelligence. On the basis of digital camera and video recordings as well as AI models, machines can identify and classify objects and persons, and execute resulting actions. Avnet Integrated´s AI Vision solutions focuses on various market verticals.

| Industrial / Manufacturing | Logistics | Construction | Smart City / Transportation | Retail | Healthcare |

Market Ready Solution – Selected industrial use cases

These use cases describe three typical industrial applications for Avnet Integrated's people detection market-ready solution.
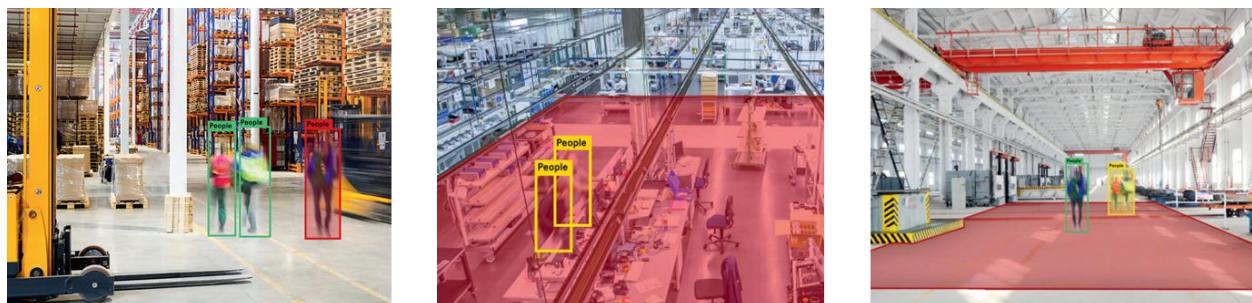
Challenges:

Safety monitoring of extensive- or safety-relevant areas such as, for example, warehouses, production plants, complete buildings, or critical infrastructure, requires a high level of human resources.
Nevertheless, virtual, or visual safety limits must be monitored and maintained to prevent accidents caused by persons or objects in the danger zone.

Our Solution:

Visual monitoring in real time allows rapid detection of people in safety-critical zones and control for compliance in zone occupancy (e.g. social distancing).
After an event has been detected, appropriate actions can be initiated, and a hazard report compiled. All this without addition personnel costs.

Market Ready Solution – Out-of-the-box AI Vision experience

Available out of the box or fully customized to suit your purpose. Units come with a quick start guide for easy setup and full support from Avnet Integrated.

a) Infinity® AI Cube b) 2 x 2MP IP PoE Camera c) Wireless Keyboard d) – g) accessories

Intel® Market Ready Solution – Awarded Key Benefits

With approval from Intel as market ready solution we simplify the use of Artificial intelligence for computer vision applications and provide essential benefits.

Build to your needs – Flexible adaption to different use cases by deep learning SW and HW

Accelerate development – Our functional platform reduces development efforts and time-to-market

Scale quickly – by leveraging AI Vision's quick-start compute and software building blocks

Have a look at the link at Intels market place and partner up with Avnet Integrated to get an advantage in your market.

(intel)
market
ready ✔

https://marketplace.intel.com/s/offering/a5b3b000000Duz3AAC/technology-platform-for-ai-vision-at-the-edge?language=en_US