



# Key Ingredient for Manufacturing Success - Axiomtek's Machine Vision System



Recent intelligent computer technologies have greatly improved production lines in factories as well as fulfillment operations in warehouses. For example, with the help of intelligent machine vision controllers in a factory setting, production line robots can quickly and efficiently identify parts that may contain defects and sort them out with higher speed and accuracy than humans can.

In warehouses, autonomous picking robots - some with machine vision, machine learning and AI capabilities - have been utilized to increase productivity and shorten deployment times during fulfillment processes. These innovations have contributed to various businesses' competitive advantages over their competitors.

Good industrial computers that drive these robotic technologies offer flexible configurations for customization that include rich interfaces. They should offer rich I/Os and allow for connectivity within the local area network and also to the cloud. Axiomtek's machine vision systems offer real-time vision I/O, camera interfaces and Power Over Ethernet (PoE) LAN ports. The IP40-rated **IPS962-512-PoE** machine vision controller acts as a reliable building



block for deep learning and automated optical inspection (AOI) applications. It has scalable processing powers with a choice of LGA1151 socket 7th/6th generation Intel® Core or Celeron® processors with the Intel® Q170 chipset. It also supports Intel® RealSense™ Camera Technology. The machine vision system also offers a wide range of isolated I/O interfaces, including 4-channel trigger input and output, four USB 3.0 ports, 24V DC power input, LED lighting controller and an encoder input. It is an all-in-one solution that addresses the needs and requirements of most machine vision applications.

The feature-rich **IPS962-512-PoE** is highly customizable for various applications with its I/O module slot. It has a choice of four different types of I/O modules - a four-port RS-232/422/485 module (AX93511); a four-port isolated RS-232/422/485 module (AX93516); a one-port GbE Ethernet, two-port USB 3.0 and two-port RS-232/422/485 module (AX93519); and a two-port isolated RS-232/422/485 and 8-in/8-out DIO module (AX93512). Axiomtek's vision system has optional support for Trusted Platform Module (TPM) 2.0 for optimum security.

We designed the **IPS962-512-PoE** with rich and innovating features and flexibility to meet the demanding requirements of high quality platforms in factory automation and robotics. We are proud to deliver the product that will help our customers achieve their goals and ease their burden of project development.

## IPS962-512-PoE - Robust, Advanced Vision System



- Scalable CPU options with 7th/6th Generation Intel® Core™ i7/i5/i3 or Celeron® processors
- Four PoE GbE LAN ports for camera interface
- Real-time vision I/O that includes 16-CH isolated DIO
- Great expansion capability



IoT Solutions  
Alliance