



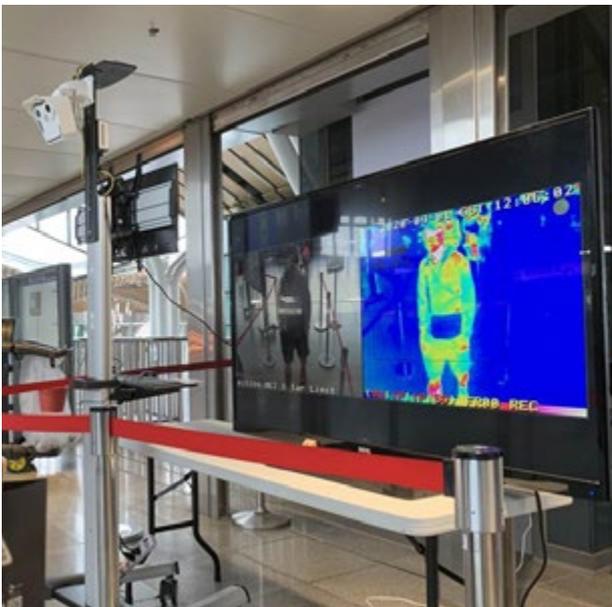
## **EFCO's Industrial Computers Lend Intelligent Embedded Vision for Pandemic Prevention Applications**





## Proactive Pandemic Prevention Using Specialized Image Processing Machines

Embedded vision is also key to the design of new healthcare tools and technologies currently being developed for a proactive approach to helping to prevent an epidemic. Smart temperature screening, which is now being deployed in Taiwan, is a new application and one way to identify people that may be ill. The system helps to reduce direct contact between healthy people and those that may be contagious, thus achieving the effect of intelligent epidemic prevention and helping to stunt the spread of new disease. By allowing body temperature to be remotely monitored through a dual-lens thermal sensor, and identifying people in a crowd who are running a fever, this diagnostic can be used to alert people who might not even know they are sick, to take precautions and get help from their healthcare provider.



Critical image processing applications such as these require extreme performance requirements and accuracy, and EFCO's task-optimized logic computers ensure reliability. The basic system features of the Eagle Eye are specifically designed to meet the market needs of machine vision in full. In particular, they focus on the areas of factory automation, machine vision and transportation/logistics. The Eagle Eyes systems are equipped with state-of-the-art Intel Skylake / Kabylake i3/i5/i7 CPUs and offer up to six Gigabit Ethernet interfaces for sophisticated image processing tasks, four of which are equipped with PoE PSE to power IP cameras. The two remaining Gigabit Ethernet interfaces can be used to integrate a real-time fieldbus such as EtherCAT as well as a classic TCP/IP network. Another four USB 3.0 interfaces are used to connect additional peripherals such as USB camera systems. For integration into the machine environment, eight optically isolated inputs and eight also optically isolated outputs are available. The six classic serial interfaces, which contain two RS-485 interfaces, can be used to establish connections to older system components that are still in use.

As we look to the future and what we've learned from the need to quickly adapt in the time of a crisis such as COVID-19, task-optimized image processing combined with artificial intelligence offers a number of advantages. From production line efficiency to new product features, the technology is available and being used in new and creative ways to respond to market demands.



## About EFCO

Established in 1992, EFCO is a leading provider of embedded computer platforms with a demonstrated history of delivering solutions matched specifically to individual customer requirements. Our industrial-grade products cover a variety of vertical market solutions. These include Wide-temperature Rugged Fanless Computers, Multi-touch Panel PCs, Casino Gaming Solutions and IoT Nodes. We also offer COMe carriers board design service, OEM/ODM design and manufacturing services, and Computer on Module (SOM) thermal solutions. EFCO is headquartered in Taipei Taiwan, with offices in the USA, China, UK and Germany.

EFCO has earned a reputation for quality control and reliability on product design and service. EFCO has successfully deployed customers' solutions into Gaming, Digital Signage, Smart Factory, Machine Vision, In-Vehicle Transportation, Health Care, Security Control and Automation.

EFCO has close partnerships with Intel® and AMD® to provide customers seamless support and time-to-market solution. EFCO is also a member of AIA, EtherCAT, and AGEM. By participating in industrial organizations, and staying current on AIoT trends, EFCO aims to build integrated Application-Ready Platforms to provide various solutions, as well as contribute its insights to the market.

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