



SINTRONES Powers AI Machine Vision for Electronics and Semiconductor Inspection at VISION 2026

Descrizione

COMUNICATO STAMPA - CONTENUTO PROMOZIONALE

High-bandwidth vision computing, patented phase-change liquid cooling, and multi-camera Edge AI accelerate real-time inspection and precision automation

STUTT GART, Germany, Oct. 1, 2026 /PRNewswire/ - SINTRONES Technology (TPEX: 6680), a global provider of rugged industrial and edge AI computing solutions, will showcase edge AI computing platforms for machine vision, automated optical inspection (AOI), and semiconductor inspection at VISION 2026, Hall 8, Booth 8D14, Messe Stuttgart, October 6-8.

From high-density GPU systems to compact edge AI platforms, SINTRONES provides scalable computing for high-resolution defect detection, AOI, 3D vision, and multi-camera image processing across semiconductor, electronics, and precision manufacturing.

AI Computing for High-Precision Inspection

As semiconductors and electronic components become smaller and inspection requirements more demanding, machine vision systems must process increasingly high-resolution images and detect subtle defects at production speed. AI, deep learning, and 3D vision are accelerating this shift, placing greater demands on computing performance, data throughput, thermal management, and system reliability.

"As semiconductor inspection moves toward higher resolution and more sophisticated AI models, computing performance alone is no longer enough. Sustained performance, thermal stability, and high-speed image processing are becoming equally critical," said Kevin Hsu, CEO of SINTRONES. "Our goal is to provide the computing foundation that enables machine vision developers to process more visual data, run more complex AI models, and make inspection decisions in real time."

Edge AI Computing for Semiconductor and Machine Vision Inspection

ABOX-5221(P)(G)-IP66 combines Intel® Core® Series 2 processors, optional Intel® Arc® GPU acceleration, dual 10GbE, four 2.5GbE ports with optional PoE+, IP66 protection, and up to 96GB DDR5 memory for high-resolution inspection and multi-camera image processing. For compute-intensive vision workloads, ABOX-5221(P)(G)-LC features SINTRONES' patented fanless, pumpless phase-change liquid cooling with up to 5x thermal efficiency, helping sustain performance without thermal throttling. Making its debut at VISION 2026, ABOX-5222E provides dual PCIe x16 expansion slots for scalable GPU and vision expansion as AI inspection workloads grow.

Multi-Camera Edge Vision AI

SINTRONES will demonstrate compact edge AI platforms for real-time 3D and multi-camera vision, including the IBOX-604-G2 with dual GMSL2 cameras for object detection and distance estimation, and the rugged IBOX-601-M12X with four GMSL2 camera interfaces for multi-camera AI inference and industrial inspection, enabling scalable deployment from proof of concept to demanding industrial environments.

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