SINTRONES AUO

Your Trusted Partner- In-Vehicle Computing

In 2021, SINTRONES officially partnered with AUO to explore the business of an intelligent transportation ecosystem. A strategic partnership in AIoV connected vehicle solutions has been established, and SINTRONES is capable of providing cutting-edge commercial vehicle networking solutions and vehicle display technology. The partnership will bring a one-stop solution for various intelligent transportation needs.

SINTRONES is a world-renowned and ISO 9001 & IRIS ISO/TS 22163 certified company of in-vehicle computing systems. We provide our customers with high-quality products that meet international standards and certification, including EN50121, EN50155, E-Mark, IEC60945, IACS E10, DNV, and MIL-810.

Our team has years of product design and sales experience in X86 platforms and vertical system integration. Our in-vehicle computing products were awarded several patents in many countries. With reliable and robust engineering ability in R&D, SINTRONES provides stable and high-quality product solutions that align with customers' short and long-term needs. We are proud of the passion, agility, and efficient, professional service we offer.

SINTRONES in-vehicle computing solutions aim to complement our customers' success. We thoroughly integrate global sales support, R&D, product planning, and marketing resources to perform professional, high-quality, and simultaneous services and create maximum value for our customers with the best products. SINTRONES in-vehicle computing solutions have been widely adopted and approved by many industries and well-known international brands.

Contact us now to learn more about our significant use cases!

SINTRONES
In-Vehicle Computing

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www.sintrones.com

SEP-24-001

SINTRONES
In-Vehicle Computing

IRIS® Certification

Intelligent Transportation Systems

Certified Fanless Computers

IN-VEHICLE COMPUTING
EMBEDDED COMPUTING
EDGE AI COMPUTING
DISPLAY COMPUTING

Edge AI Solution

Discrete GPU AI Solution

ABOX-5220(G) Series

- **14th Generation Intel® Core™ i9-14900T Processor**
- NVIDIA RTX™ and Intel® Arc™ GPU Options for AI Acceleration
- 2 x TSN Ready 2.5GbE Controller for Time-Sensitive Network
- 8 x GbE with Optional PoE Support for Easy Connection with IP Camera
- 8 x DI (9~60VDC), 2 x ADC (9~60VDC), and 4 x DO (5V, 100mA)
- Compliant with EN 50155, EN 45545-2 R25, ECE R118 Standards
- E-Mark Certified

High-Performance Jetson Solution

IBOX-650 Series

- **ARM® Cortex®-A78AE 12-core Processor**
- NVIDIA® Jetson AGX Orin 64GB
- 2048 NVIDIA® CUDA® Core, 64 Tensor Cores
- 2 x CAN FD for Vehicle Applications
- 3 x M.2 Slots for Wi-Fi / WWAN / SSD Expansion
- IP66 Design for Harsh Environment
- GMSL Cameras Supported
- Wide-range Power Input 9~60VDC with Smart Power Management
- Wide-range Operating Temperature -25°C~70°C

Enter the AI Revolution Now

IBOX-600/601 Series

- **ARM® Cortex®-A78AE 8-core Processor**
- NVIDIA® Jetson Orin NX 16GB
- 1024 NVIDIA® CUDA® Cores, 32 Tensor Cores
- 3 x M.2 Slots for Wi-Fi / WWAN / SSD Expansion
- 1 x CAN FD for Vehicle Applications
- 4 x GMSL Cameras Supported (IBOX-601)
- Wide-range Power Input 9~60VDC with Smart Power Management
- Wide-range Operating Temperature -25°C~70°C
- Model M12 version available

In-Vehicle Video Surveillance

ABOX-5211 Series

- **10th Generation Intel® Core™ i9 Processor**
- 8 x DI, and 4 x DO and 4 x RS-232/422/485
- 3 x M.2 2280 Key M Support NVMe SSD Storage
- 8 x GbE RJ45 with PoE Support
- Wide-range Power Input 9~60VDC with Smart Power Management
- Wide-range Operating Temperature -40°C~70°C
- E-Mark Certified

In-Vehicle Computing Solution

Best Device for Railway Application

VBOX-3630(R) Series

- **11th Generation Intel® Core™ i7 Processor**
- 5G / LTE / GPS / Wi-Fi / Bluetooth / CAN Bus Supported
- 2 x HDMI, 1 x DP, 1 x DVI-D (Four Independent Display Supported)
- 1 x 2.5 GbE & 3 x GbE (Selectable for RJ45/M12 Ethernet Connectors)
- Optional PoE with Max. 60W Power Budget
- Wide-range Operating Temperature -40°C~70°C
- Wide-range Power Input 9~60VDC (VBOX-3630)
- Isolated Power Input 24~110VDC for Rolling Stock (VBOX-3630R-M12X)
- Smart Power Ignition Management
- E-Mark & EN 50155 Certified

Ignition Management for Variety Vehicle

VBOX-3122 Series

- **11th Generation Intel® Core™ i7 Processor**
- 3 x M.2 & 2 x mPCIe Slots for WWAN / Wi-Fi / SSD /GPS / CAN Expansion
- 2 x RS-232/422/485 Serial Ports
- 4 x DI, 4 x DO, 2 x Analog Input
- Wide-range Operating Temperature -40°C~70°C
- Wide-range Power Input 9~60VDC
- Smart Vehicle Power Management
- E-Mark Certified

Efficient Fleet Management Solution

VBOX-3123 Series

- **AMD Ryzen™ Embedded R2312 2C/4T Processor**
- Dual HDMI® supports resolution specified in HDMI® 2.0b
- 1 x M.2 2280 Key M supports NVMe or SATA SSD
- 1 x M.2 3042/52 Key B supports USB 3.2 for WWAN w/ Dual SIM
- 1 x M.2 2230 Key E supports PCIe and USB 2.0 for Wi-Fi/BT
- 2 x RS-232/422/485 Serial Port
- 4 x DI, 4 x DO, 2 x Analog Input
- Wide-range Operating Temperature -40°C~70°C
- Wide-range Power Input 9~60VDC
- Smart Vehicle Power Management
- E-Mark Certified

Display Solution for ITS

For Vehicle Installation

VDM-700HD/VDM-101HD

- Effortless One-Cable Connection
- High Resolution: 1280 × 720 (700HD), 1280 x 800 (101HD)
- High Brightness: 560 Nits (700HD), 500 Nits (101HD)
- Secondary HDMI® Video Input
- Projected Capacitive Multi-touch
- 9~48VDC Power Input
- Operating Temp. -20°C~60°C
- E-Mark Certified

For Passenger Information

VDM-286RS-AC/VDM-370RS-AC

- High Resolution: 1920 x 540
- High Brightness: 700 Nits (286RS), 1,500 Nits (370RS)
- Anti-Glare Surface Treatment (Haze 28%)
- Side / Bottom I/O Design for Slim Wall Mounted
- Landscape / Portrait Mounting
- Reliable 24/7 Operation
- Reliable for Public Transportation Terminals

Delivers Stunning Productivity

SBOX-2603 Series

- **AMD Ryzen™ Embedded R2312 2C/4T Processor**
- Dual HDMI® Supports Resolution Specified in HDMI® 2.0b
- 1 x M.2 2280 Key M Supports NVMe or SATA SSD
- 1 x M.2 3042/52 Key B Supports USB 3.2 for WWAN with Dual SIM
- 1 x M.2 2230 Key E Supports PCIe and USB 2.0 for Wi-Fi/Bluetooth
- Wide-range Operating Temperature -30°C~60°C
- Power Input 12VDC

Fully Industrial Specifications

SBOX-2321 Series

- **Intel Atom® x6416RE Quad-core Processor**
- Dual Display Output (1 x DP / 1 x DVI-D)
- 2 x 2.5GbE for Embedded IoT Connection
- 3 x M.2 & 1 x mPCIe Slots for Wi-Fi / WWAN / CAN Expansion
- Wide Operating Temperature -40 ~ 70°C for Harsh Environment
- Dual SIM for Network Redundancy
- Industrial Fanless Design