



SINTRONES, Pioneer of Edge AI Applied Computing

SINTRONES, an ISO 9001 and IRIS-certified leader in Edge AI and ITS, delivers high-quality, internationally certified products (EN50121, EN50155, E-Mark, IEC60945, IACS E10, DNV, MIL-810). Our edge AI applied systems integration expertise and patented products ensure stable solutions tailored to customer needs. We provide agile, efficient service and maximize customer value through best-in-class products supported by integrated global resources. Leading brands across various industries widely recognize our solutions. In 2021, we partnered with AUO to develop an AloV-connected vehicle ecosystem, offering advanced commercial vehicle networking and display technologies. Contact us to explore our success stories.

Automation Fanless Panel PC

SPC-101MA1/SPC-156MA1 (Coming Soon)

- Intel Alder Lake N97 Processor, Amston Lake x7433RE for option
- 1 x DDR5 4800MHz up to 32GB
- 1 x M.2 M key 2280 for NVMe SSD
- 2 x 2.5GbE RJ45 (1 x i226V, 1 x i226LM)
- 2 x USB 3.2 (1 x Type A, 1 x Type C) • 4x USB 2.0 • 1 x COM
- 1 x HDMI, 1 x Line out / MIC in
- 1 x M.2 E key for Wi-Fi / Bluetooth module
- 1 x M.2 B key for WWAN module
- TPM 2.0 on board
- Size: 10.1" / 15.6"
- Panel Brightness: 400nits
- Panel Resolution: 1280 x 800 (101MA1), 1920 x 1080 (156MA1)
- Touch: PCT touch
- Panel mount, VESA Mount, Open frame Mount
- 12~36VDC Power Input

SPC-101MB1/SPC-156MB1 (Coming Soon)

- AMD Ryzen Embedded R2312
- 1 x DDR4 2400MHz up to 32GB
- 1 x M.2 M key 2280 for NVMe SSD
- 2 x 2.5GbE RJ45 (1 x i226V, 1 x i226LM)
- 2 x USB 3.2 • 1 x COM
- 1 x HDMI, 1 x Line out, 1 x MIC in
- 1 x M.2 E key for Wi-Fi / Bluetooth module
- 1 x M.2 B key for WWAN module
- Size: 10.1" / 15.6"
- Panel Brightness: 400nits
- Panel Resolution: 1280 x 800 (101MB1), 1920 x 1080 (156MB1)
- Touch: PCT touch
- Panel mount, VESA Mount, Open frame Mount
- 12VDC Power Input



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IECQ QC 080000:2017



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FEB-25-001



Edge AI Applied Computing

Intelligent Transportation System
Certified Fanless Computers

Designed & Manufactured in Taiwan

EDGE AI

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 Standards
- E-Mark Certified



High-Performance Jetson Solution

IBOX-650P Series

- NVIDIA® Jetson AGX Orin™ 64GB
- IP66 with Fanless Design
- 2 x CAN FD
- 1 x 10 GbE, 2 x 2.5 GbE with PoE via Phoenix Contact® M12 Connectors
- 4 x FAKRA Supporting GMSL-2 Cameras
- 9 ~ 60VDC Input with Built-in Smart Ignition Power Management
- -25 ~ 70°C Operating Temperature
- Optional UPS for Emergency Power Backup
- Automotive Ethernet Edition Available (IBOX-650P-T1)



Enter the AI Revolution Now

IBOX-600/601/602P Series

- NVIDIA® Jetson Orin™ NX 16GB
- IP66 with Fanless Design (IBOX-600-IP66/IBOX-602P-IP66)
- 2 x Ethernet with PoE (IBOX-602P-IP66)
- 1 x CAN FD
- 4 x FAKRA Supporting GMSL-2 Cameras (IBOX-601-M12X/IBOX-602P-IP66)
- 9 ~ 60VDC Input with Built-in Smart Ignition Power Management
- Optional UPS for Emergency Power Backup
- M12 Edition 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
- 4 x RS-232/422/485 Serial Port
- 4 x DI, 4 x DO, 2 x Analog Input
- Wide-range Operating Temperature -40°C ~ 60°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
- Size: 7" / 10.1"
- High Resolution: 1280 x 720 (700HD), 1280 x 800 (101HD)
- Panel Brightness: 600 Nits (700HD), 1000 Nits (101HD)
- Secondary HDMI® Video Input
- Projected Capacitive Multi-touch
- 9~48VDC Power Input
- Operating Temp. -20°C~60°C
- E-Mark Certified



Outdoor Fanless Panel PC

VPC-101RA1S/VPC-156RA1S (Coming Soon)

- NXP i.MX 8X Quad Plus Automotive Grade SoC
- LP DDR4 4GB, and eMMC 5.1 32GB + Micro SD Card
- 2 x USB 3.0 • 2 x GbE
- 1 x COM + 1 x COM / 1 x DIO / 3 x CAN-FD (option)
- Size: 10.1" / 15.6"
- Panel Resolution: 1280 x 800 (101RA1S), 1920 x 1080 (156RA1S)
- Panel Brightness: 1000 Nits (101RA1S), 1200 Nits (156RA1S)
- Touch: PCT touch with AG, AF coating for outdoor environment
- IP Rating: Front Frame IP66
- Panel mount, VESA Mount, Open frame Mount
- 9~60VDC Power Input



Delivers Stunning Productivity

SBOX-2603/2623 Series

- AMD Ryzen™ Embedded R2312 2C/4T Processor
- 2 x HDMI® 2.0b, 1 x DVI-D (Three Independent Display Supported)
- Wide-range Power Input 9~36VDC (SBOX-2623)
- Wide-range Operating Temperature -30°C ~ 60°C
- 3 x M.2 Slots for NVMe or SATA SSD / WWAN / Wi-Fi and Bluetooth
- 4 x RS-232/422/485 Serial Ports
- Industrial Fanless Design



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

