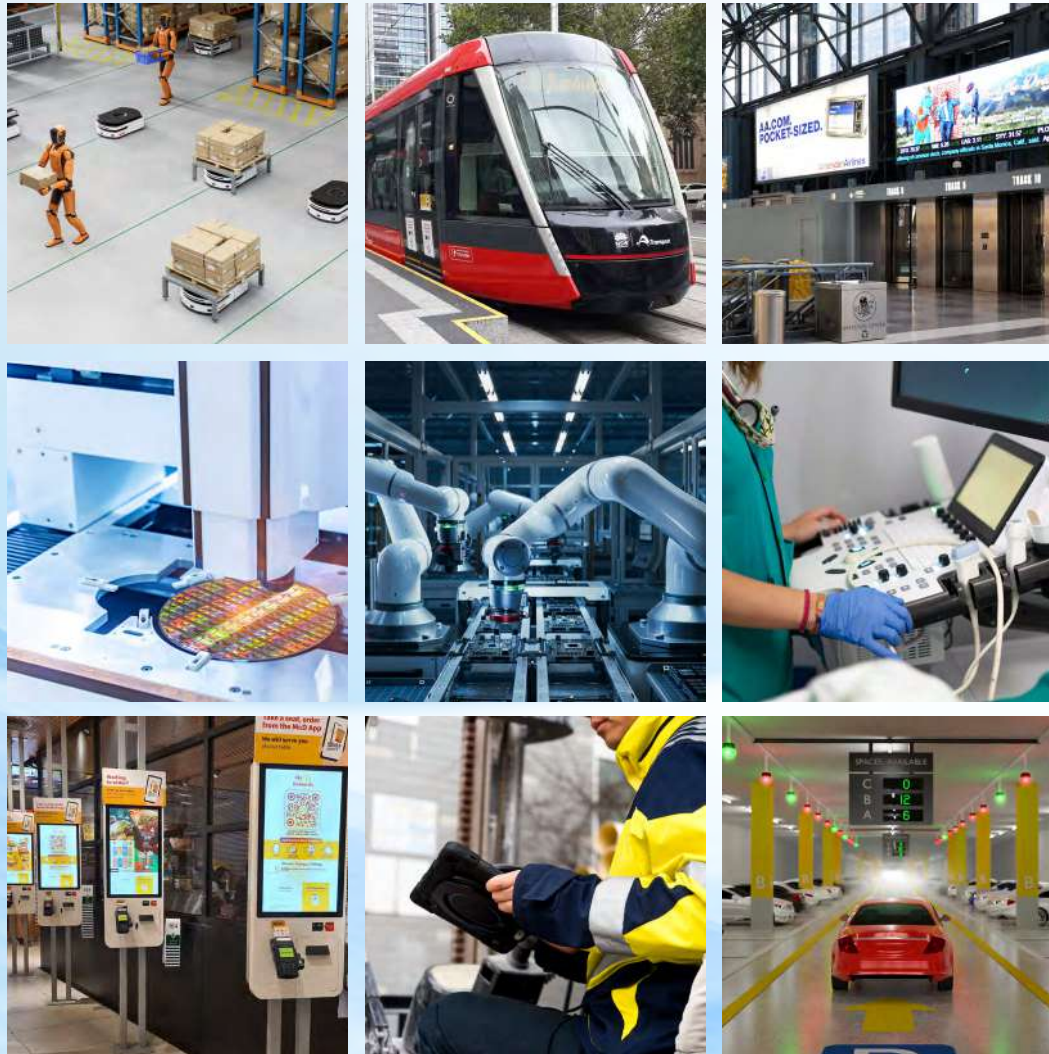




New Product & Solution Guide

The Latest Embedded and Edge AI Computing Innovations
for Intelligent Vertical Markets

About MSI IPC

With 40 years in motherboard design and manufacturing, MSI ranks among the world's top 3, renowned for quality and stability. Since 2006, MSI expanded into Embedded and Industrial markets, offering reliable, expandable products with longevity support.

Our high-quality embedded boards and systems cater to diverse applications including digital signage, medical electronics, ATM, POS, Kiosk, industrial automation, gaming, utility, and transportation. Backed by robust R&D and manufacturing capabilities, we deliver efficient DMS (Design & Manufacturing Services) solutions, poised to be the preferred partner in the Embedded and Industrial market worldwide.

We are a seasoned, cutting-edge department specializing in industrial/embedded motherboards and BOX IPC barebone/systems for discerning OEMs. With a wealth of experience, we offer both standard products and tailored design solutions.

The advantages of using MSI's DMS include



Customization



Faster Development



Reduced Design Risk



Prototype Delivery



Scalability



Revision Control & Management



Empowering the Edge: Comprehensive AIoT & Industrial Computing Solutions

Scalable, High-Performance Hardware Engineered for Smart Automation, Edge AI, Smart Healthcare, Intelligent Transportation, Smart Retail, and Digital Signage.



Retail

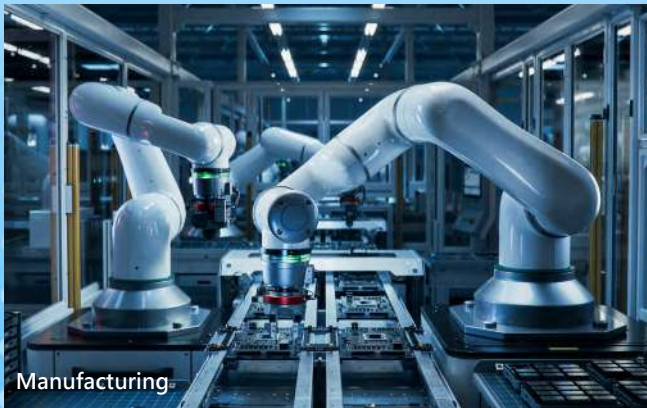
BOX IPC

GB10 AI Supercomputer,
Edge AI Box
Embedded Box, Slim Box
Industrial Lite BOX



Tablet PC

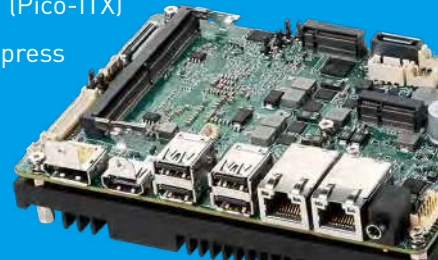
IP65



Manufacturing

Industrial Motherboard

ATX, Micro-ATX, Mini-ITX
3.5" SBC, 2.5" (Pico-ITX)
EPIC, COM Express

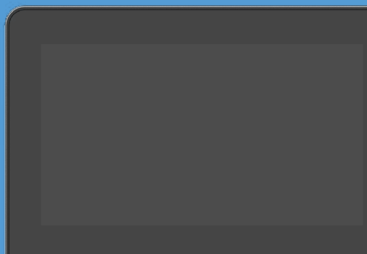


Medical



Industrial Panel PC

10.1", 12.1", 15", 15.6", 21.5"
Open Frame Solution



Transportation



Physical AI Solutions

Rugged Hardware for Autonomous Machines and Edge Intelligence.

EdgeXpert AI Supercomputer

Based on NVIDIA DGX Spark™ GB10 Platform for Deep Learning



- NVIDIA® Grace Blackwell (GB10) Architecture:
 - NVIDIA Blackwell GPU & Arm 20-core CPU
 - NVIDIA® NVLink®-C2C CPU-GPU memory interconnect
- 128 GB LPDDR5x coherent, unified system memory
- 1000 AI TOPS (FP4) AI performance

MS-C9P5 Edge AI Box PC

Edge AI Box PC with NVIDIA® Jetson Thor T5000™ for Physical AI, Robotics & Real-Time Edge Inference Solution

NEW



- T5000™ with 128GB LPDDR5X
- Dual displays: 2 HDMI
- 2 GbE with RJ-45, 1 QSFP (4 x 25 GbE)
- 1 USB 2.0, 1 USB 3.1 Gen 1, 1 USB 3.2, 4 USB 3.2, 8 USB 3.2 Type-A (Optional)
- 8 PoE (Optional)
- 4 GPIO, 4 CAN BUS
- 1 Mini-PCIe (Optional)
- Wide operating temp: -25~50° C
- Wide voltage DC-IN 9~36V

MS-C9ZA Compact Box PC

Compact-Size Box PC with NVIDIA® Jetson Orin™ Nano with Ultra Low-Power Fanless Solution

NEW



- NVIDIA® Jetson Orin™ Nano 8GB
- Nano 8GB: 128-bit LPDDR5 3200 MHz
- Single display: HDMI
- 2 GbE LAN with RJ-45
- 20-pin: 2x I2C, 2 UART, 4 GPIOs, 1 CAN
- 2 x 4 lane MIPI CSI-2, 22-pin FPC 0.5mm Pitch Connector
- 256G SSD (OS Bundled)
- Ultra-Compact with fanless design
- RTC battery and Battery Life Monitoring by MCU
- Wide voltage DC-IN 9~24V

Edge AI Computing

Industrial-Grade Fanless Systems Built for Real-Time Inference, Machine Vision, and Heavy Spatial Workloads.



NEW

MS-C92B 4U Rackmount PC

14th/13th/12th Gen/ Bartlett Lake Intel® Core™ i Processor for High-Performance Solution

- Intel® 14th/13th/12th Gen Raptor Lake-S Refresh/Raptor Lake-S/Alder Lake-S Series/Bartlett Lake-S with Q670E
- 4 DDR5 4400 MT/s non-ECC UDIMM slots up to 128GB
- Triple displays: VGA, DP, HDMI
- 2 2.5GbE LAN with RJ-45
- 1 PCIe x16 or 2 PCIe x8, 1 PCIe x4 (Gen 4), 3 PCIe x4 (Gen 3), 1 PCI, 1 M.2 B key
- 10 USB 3.2, 3 USB 2.0, 6 COM, Audio, 8 GPIO
- SATA RAID 0/1/5/10



MS-C910E Edge AI Box

High Performance Box PC with 12th/13th/14th Gen Intel® Core™ i Processor & Core Processors Series 2 for Rugged, Scalable & Versatile Solution

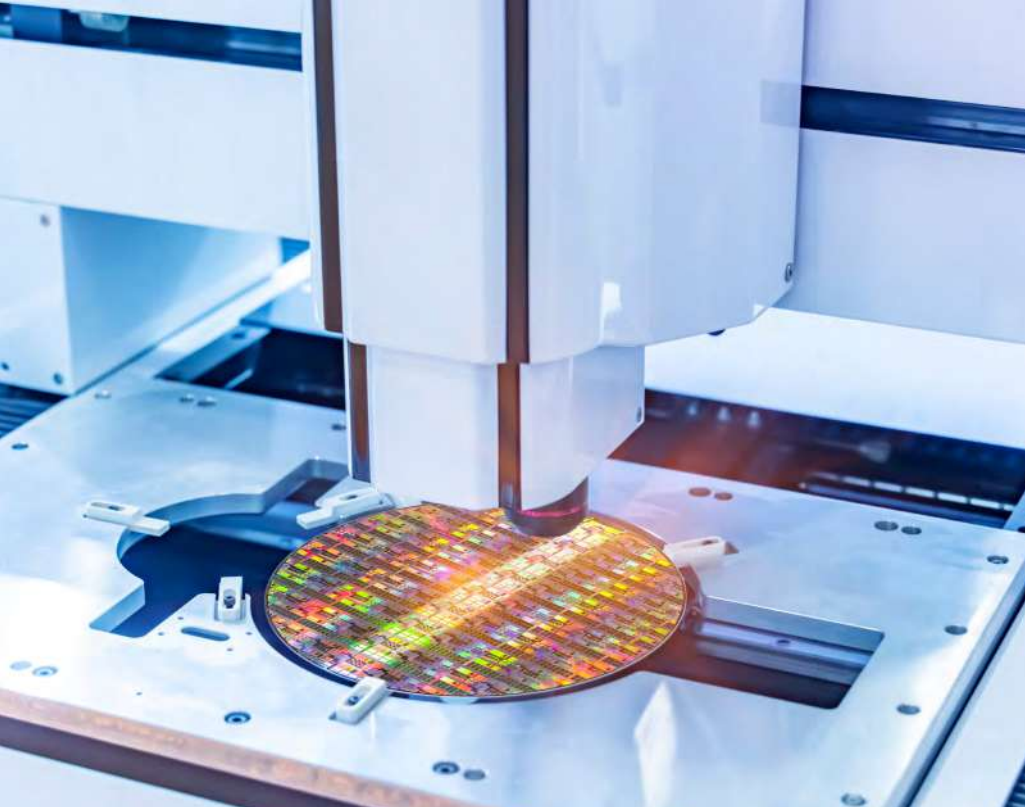
- Intel® 12th/13th/14th Gen Alder Lake-S/Raptor Lake-S/ Raptor Lake-S Refresh/Bartlett Lake-S Series with R680E
- 2 DDR5 5600 MHz ECC/non-ECC SODIMM slots up to 96GB
- Quadruple displays: 2 HDMI, 2 DP
- 4 2.5 GbE LAN with RJ-45
- 1 PCIe x16 (Gen 5), 1 PCIe x8, 1 PCIe x1
- 2 SATA 3.0 (2.5" SSD/HDD, 7mm) for storage



MS-C910 Edge AI Box

Outperform Fanless Box PC with 12th/13th/14th Gen Intel® Core™ i Processor for Rugged, Scalable & Versatile Solution

- Intel® 12th/13th/14th Gen Alder Lake-S/Raptor Lake-S/ Raptor Lake-S Refresh Series with R680E
- 2 DDR5 5600 MHz ECC/non-ECC SODIMM slots up to 64GB
- Quadruple independent displays: 2 HDMI, 2 DP
- 4 2.5 GbE LAN with RJ-45
- PCIe x16 (Gen 4), PCI, PCIe E Key (Gen 4), Mini-PCIe (per SKU)
- 2 SATA 3.0 (2.5" SSD/HDD, 7mm) for storage



Reliable AIoT Solutions

Connected Edge-to-Cloud Infrastructure Transforming Raw Sensor Data into Real-Time Predictive Insights and Automated Action.

Connect and intelligentize your operations with our reliable AIoT platforms. Built for seamless device-to-cloud integration, these systems power predictive maintenance in smart factories, energy management in commercial buildings, and automated traffic flow in transit hubs. By processing data directly at the edge, our solutions deliver the instant insights needed to optimize efficiency and minimize downtime.

MS-C939 Fanless Box PC

12th/13th/14th Gen Intel® Core™ i Processor for Rugged, Scalable & Versatile Solution

NEW



- Intel® IOTG Alder Lake-S Processor Core i9/i7/i5/i3 Pentium, Celeron
- 2 DDR5 SO-DIMM (262 Pin) up to 5600 MT/s
- Dual displays: DP, HDMI
- 6 Intel® GbE LAN
- 1 PCI-e x16, 2 SATA 3.0, 1 M.2 M KEY 2280 (SATA), 2 2.5" HDD Tool-less Bay
- 2 RS232/422/485 & 4 RS232
- 2 USB 3.2 (Gen1), 2 USB 3.2 (Gen2) & 5 USB 2.0
- Onboard TPM 2.0
- WatchDog 1~256s
- GPIO 16-bits (8*GPI; 8*GPO), 5V

MS-C9P3 Compact Box PC

Intel® Core Processors (Series 3) Wildcat Lake Processor for Ultra Low-Power Fanless Solution

NEW



- Intel® Core Processors(Series 3) Wildcat Lake Core3 304/305 Core5 315/320/330 Core7 350/360
- 1 DDR5 6400 MHz SODIMM up to 64GB
- Dual displays: 1 HDMI, 1 DP
- 2 2.5 GbE with RJ-45
- 1 M.2 E key slot
- 1 M.2 M key, SATA 3.0 for storage
- 2 USB 3.2 Gen 2, 8 USB 2.0, 2 COM (1 RS-485)
- Wide voltage DC-IN 9~36V



IIoT & Mobility Solutions

Energy-Efficient, Highly Connected Industrial Platforms Optimized for Edge Gateways, Data Aggregation, and Localized Automation.

MS-C9P1 Compact Box PC

Intel® Alder Lake-N & Twin Lake-N & Amston Lake for Ultra Low-Power Dual-Display Solution

- 1 SO-DIMM DDR5 4800 MHz up to 16GB
- Dual displays: 1 HDMI, 1 DP
- 4 1 GbE LAN with RJ-45
- 1 M.2 B Key, 1 M.2 E key slots
- 1 M.2 M key, SATA 3.0 for storage
- 1 USB 3.2 Gen 2, 1 USB 2.0, 6 COM
- Wide Voltage DC-IN 12~24V



NEW

MS-C9P2 Compact Box PC

Intel® Alder Lake-N & Twin Lake-N & Amston Lake for Ultra Low-Power Fanless Solution

- 1 SO-DIMM DDR5 4800 MHz up to 16GB
- Display: 1 HDMI
- 4 1 GbE LAN with RJ-45
- 1 M.2 B key, 1 M.2 E key slots
- 1 M.2 M key, SATA 3.0 for storage
- 1 USB 3.2 Gen 2, 1 USB 2.0, 1 COM
- Wide Voltage DC-IN 12~24V



NEW

MS-C9P4 Compact Box PC

NXP i.MX95 Plus Cortex®-A55 for Ultra Low-Power Fanless Solution

- NXP ARM® Cortex®-A55 i.MX 95
- LPDDR5 6400MT/s BGA up to 16GB
- Dual displays: HDMI
- 2 1 GbE LAN with RJ-45
- 1 M.2 M key, 1 M.2 B Key, 1 M.2 E Key Slot
- 1 USB 3.0, 5 USB 2.0, 1 x USB Type C for OTG, 3 COM, 1 GPIO, Audio, Amplifier-10W
- 1 CANbus
- 4 opening reserved for antennas
- Anti-Vibration & Shockproof Design to Compliance IEC 61373
- 12V DC-IN by lockable DC Jack
- Ultra-Compact with fanless design



NEW

MS-C932 In-Vehicle Box PC

In-Vehicle Box PC with Intel® Amston Lake & Twin Lake Platform for Fanless Solution

- 1 DDR5 4800 MHz SODIMM slot up to 16GB
- Dual displays: 1 HDMI, 1 DP
- 4 2.5GbE w/ PoE function (up to PoE++) Intel® I226-IT (M12/RJ-45)
- 3 USB 3.2 Gen 1, 1 USB 2.0, 2 COM
- Onboard GNSS, G-sensor, Gyroscope, CANBus FD (backward compatible)
- Ignition power on/off control
- Isolated DIO (4-in/4-out)
- 2 removable SSD/HDD tray
- SD Card Support
- 1 M.2 B-key for 5G (USB3.0 only) w/ SIM
- 1 mini-PCIe for LTE w/ SIM
- Wide operating temp: -20~70° C
- Wide voltage DC-IN 9~60V



NEW



Slim Box Solutions

High-Reliability Operational Technology Powering Next-Generation Digital Signage, Smart Kiosks, and Interactive Automated Vending.

NEW

MS-C936 Slim Box

Intel® Raptor Lake-P Refresh Platform U-Series, High Performance & Low-Power for 4K2K Digital Signage, KIOSK, Automation & AIoT Edge Computer

- 2 DDR5 5200 MHz SODIMM slots up to 96GB
- Quadruple displays: 2 HDMI, 2 DP
- 2 2.5GbE LAN with RJ-45
- 1 M.2 B key (with NANO SIM-holder), 1 M.2 E key
- 1 M.2 M key, 1 SATA 3.0 (2.5" SSD, 7mm) for storage
- AHCI, SATA RAID 0/1 (SATA ports and M.2 M Key [SATA mode])
- 4 USB 3.2 Gen 2, 6 USB 2.0, 2 COM, Line-out
- Onboard TPM 2.0
- Easy access all on bottom side for 2 Memory, 3 M.2, 2.5" SSD
- DC-IN 12V/19V
- Anti-Vibration & Shockproof Design to Compliance IEC 60068-2



29mm
Ultra-Thin

Slim and
Fanless design

NEW

MS-C926 Slim Box

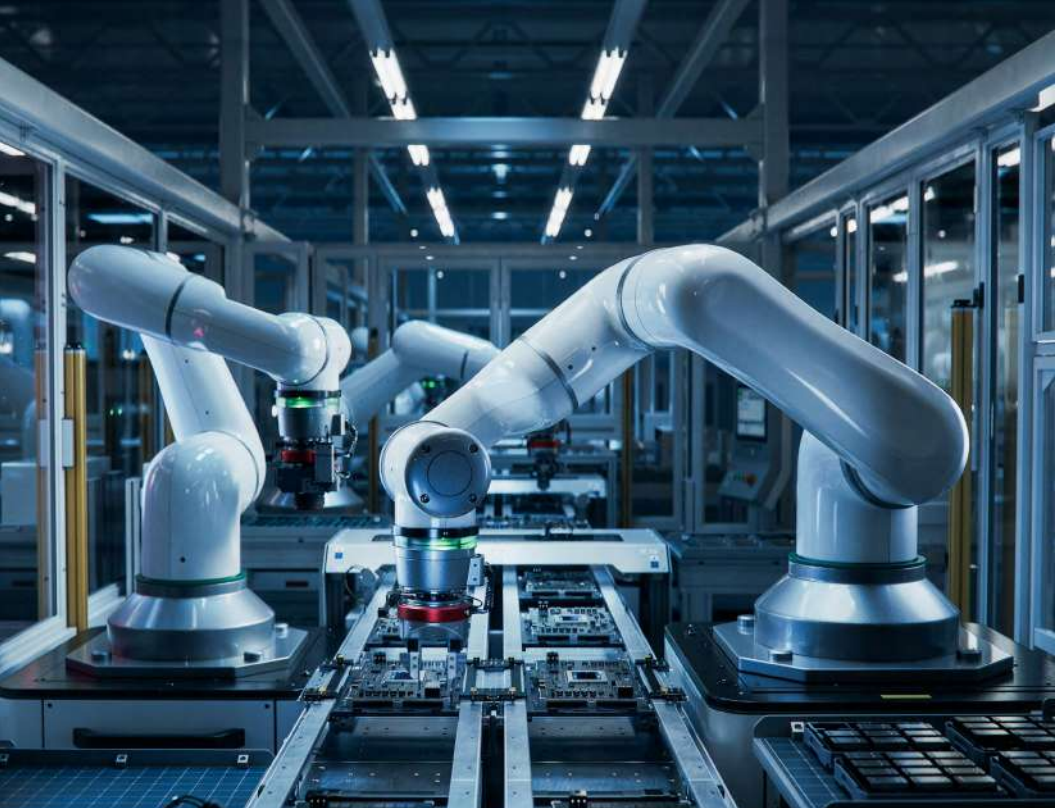
Ultra-Slim & Featherweight Fanless Box PC with Intel® Alder Lake-N/Twin Lake Platform, Low-Power for Digital Signage

- DDR5 4800 MHz SODIMM Slot up to 16GB
- Triple displays: 2 DP, 1 HDMI 2.0
- 2 GbE LAN with RJ-45
- 1 M.2 B key (with NANO SIM-holder) support 5G/LTE, 1 M.2 E key
- 3 USB 3.2 Gen 1, 1 USB 2.0, 1 COM(RS485), Audio
- Onboard TPM 2.0
- Easy access HDD, Memory, SIM Card, M.2 slots
- DC-IN 12~24V
- Anti-Vibration & Shockproof Design to Compliance IEC 60068-2



19mm
Ultra-Thin

Slim and
Fanless design



Embedded Board Solutions

Industrial Motherboards and Single-Board Computers Engineered to Drive Complex Automation, Healthcare Infrastructure, Transportation, Retail and Smart Utility Systems.

NEW



MS-CF31 3.5" SBC

Intel® Wildcat Lake for Fanless, Ultra Low-Power, Wide Voltage Range & High-Performance Solution

- 1 DDR5 6400 MHz SODIMM slot up to 64GB
- Triple displays: DP, HDMI, LVDS/eDP
- 2 2.5GbE Lan with RJ-45
- 1 M.2 E key slot
- 1 M.2 M key, 1 SATA 3.0 for storage
- 2 USB 3.2, 8 USB 2.0, 2 COM, Audio, Amplifier-R/L 3W each
- Onboard TPM 2.0
- Wide Voltage DC-IN 9~36V

NEW



MS-CF27 3.5" SBC

Intel® Alder Lake-N, Twin Lake-N & Amston Lake for Fanless, Ultra Low-Power, Wide Voltage Range & High-Performance Solution

- DDR5 4800 MHz SODIMM slot up to 32GB
- Triple displays: DP, HDMI, LVDS/eDP
- 4 1 GbE LAN with RJ-45
- 1 M.2 B Key, 1 M.2 E Key slot
- 1 M.2 M Key, SATA 3.0 for storage
- 1 USB 3.2 Gen 2, 5 USB 2.0, 6 COM (2 RS-485), GPIO, Audio
- Wide Voltage DC-IN 12~24V



MS-CF20 V2.0 ATX

Intel® Arrow Lake-S, Core™ U9/U7/U5 & Intel® W880 for High-Performance Solution



MS-CF19 3.5" SBC

Intel® Meteor Lake-U/ Arrow Lake-U for Fanless, Ultra Low-Power, High-Performance Solution



MS-CF17 3.5" SBC

Intel® Raptor Lake-P for Fanless, Ultra Low-Power, High-Performance & Wide Temperature Solution



Industrial Panel PCs & HMIs

All-in-One Touch Display Solutions Built for Heavy-Use Industrial, Commercial, and Healthcare Environments.

NEW



MS-OP01

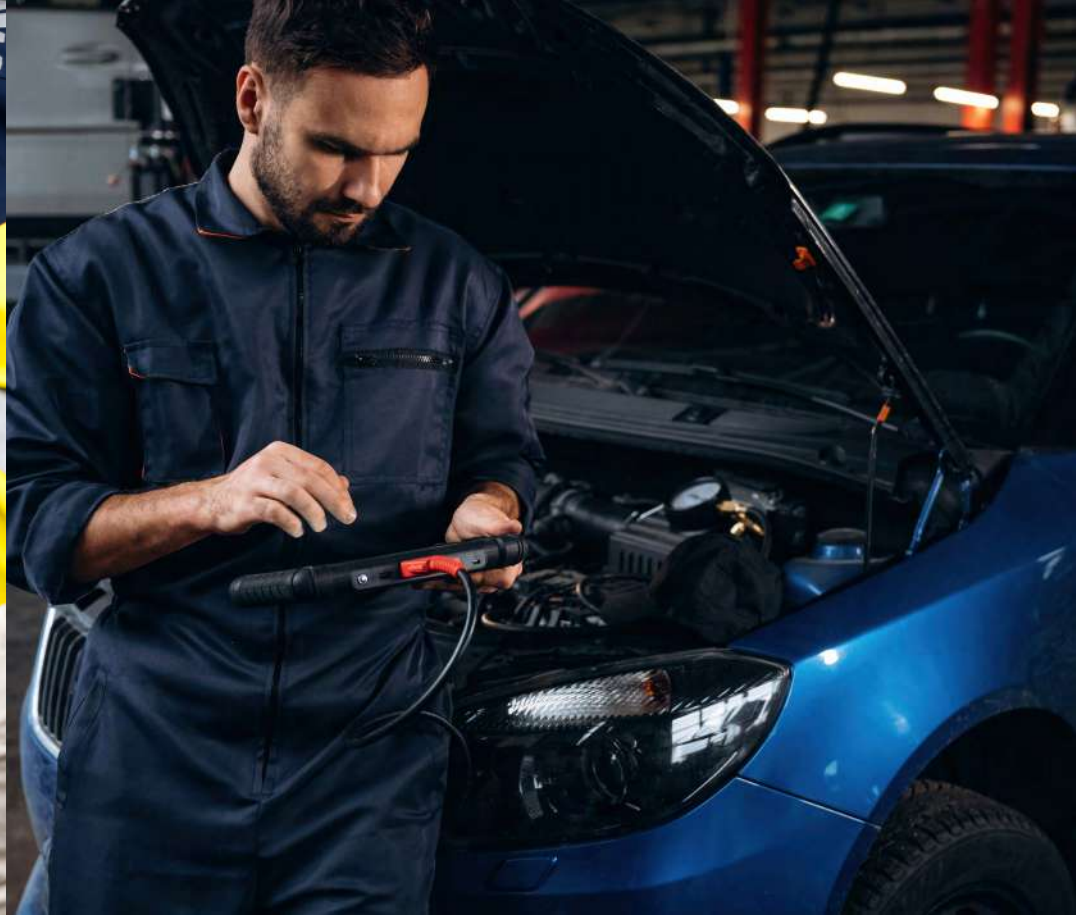
15.6" Open Frame Design for HMI Panel PC

- Panel Size: 15.6" (Customization for 12", 15", 21.5")
- Fully Flat Panel & Ultra Slim Design
- Compatible design for standard motherboard
- P-Cap Touch



MS-1A91 / -1A22 / -1A32 / -1A71 / 1A81

- Intel® Alderlake N CPU
- Panel Size: 10.1" / 12.1" / 15" / 15.6" / 21.5"
- Fanless & Ultra Slim Design
- P-Cap Touch
- IP65 (Front)
- Rich I/O



Rugged Tablet Solutions

Military-Grade Rugged Tablets Engineered for On-Site Logistics, Field Diagnostics, and Mission-Critical Mobile Workflows.

NEW



MS-NOT2

IP65 Semi-Rugged Tablet PC with Intel® Twin Lake N150

- 1 x DDR5 SO-DIMM slot up to 16GB
- 10.1" 1280 x 800 w/Pcap touch + MPP1.51 pen solution
- 2 x USB 3.0, 1 x Audio, 1 x RJ-45 LAN
- 1 x SD card reader
- 2M Pixel front camera, 5M Pixel rear camera
- Option for Office Docking I/O : 2 x USB 3.0, 2 x USB 2.0, 1 x 2.5G LAN (Option for NFC, Barcode Scanner)
- DC-IN 19V
- Accessories (Option) : Protection cover, VESA mount , Active Pen
- Detachable Battery design



IP65
Sealing

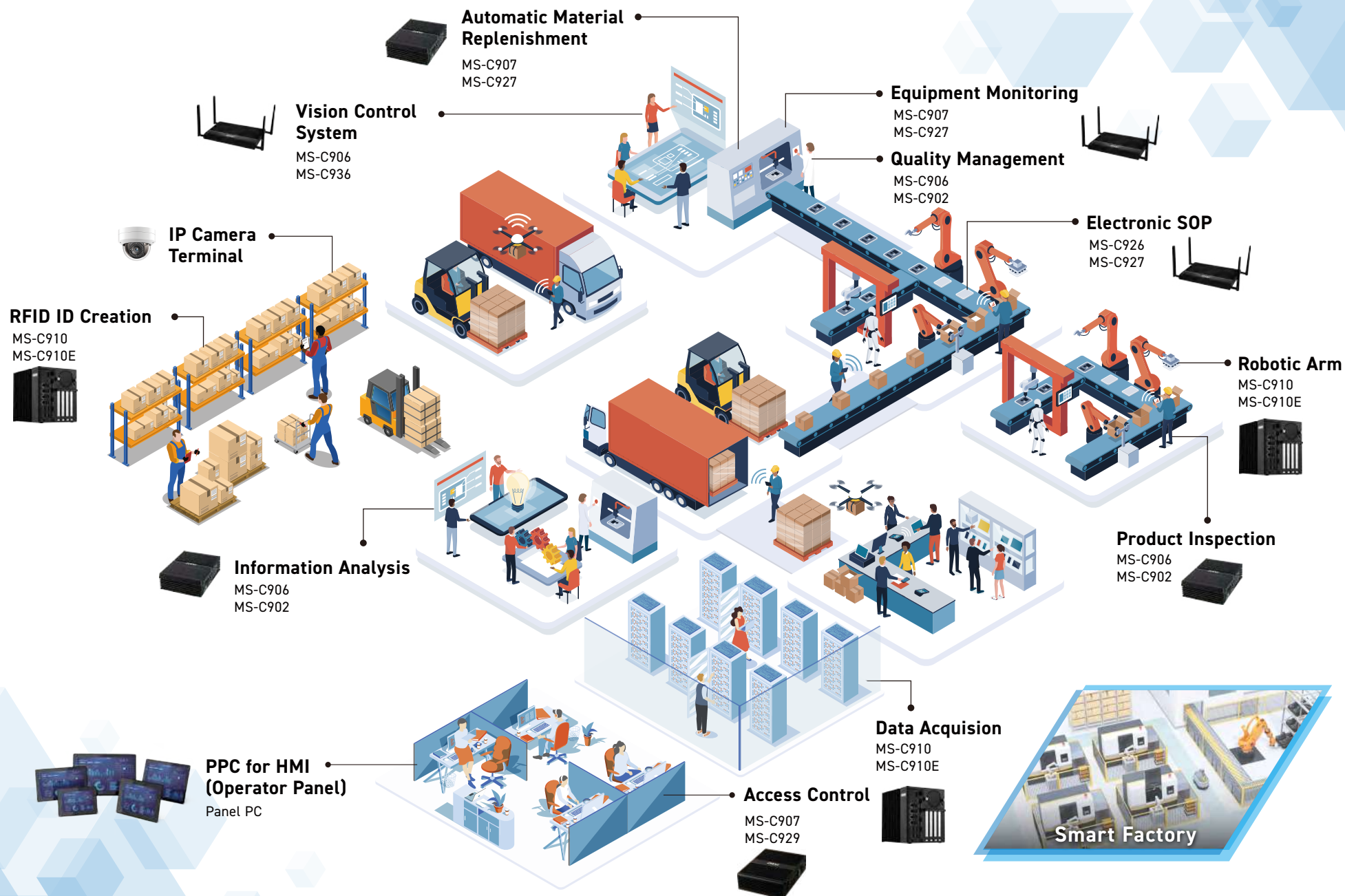
4 ft.
Drop Test

Long Battery Life

Anti Bacteria

Card Reader

Barcode Scanner



Smart Transportation



Smart Retail (KIOSK)



Smart Self-ordering Kiosk

MS-C907
MS-C929
MS-1P17

Smart Self-Checkout system

Panel PC

Smart Shelf

MS-C907
MS-C929
MS-1P17

Instant Inventory Checking

MS-C907
MS-C929
MS-1P17

Business Intelligence



Smart Retail Dashboard

MS-C926
MS-1P17
MS-C902



Data Collection Business Intelligence

MS-C910
MS-C910E
MS-C930



Cutting-edge recognition technology for in-store business analytics
MS-C910
MS-C910E
MS-C930(4U)

Digital Menu Boards

Digital signage solutions as menu boards displaying real-time promotions

MS-1P17
MS-C926

Panel PC

POS Terminal

Interactive Digital Signage with Facial Recognition

Self-ordering kiosks to cut customer queuing time

MS-C926
MS-C902

Panel PC

Intelligent Shelf

Panel PC+ MS-C910

Orders are automatically sent to kitchen display systems from POS terminals to accelerate meal preparation

MS-C906
MS-C907
MS-C929





Learn More: ipc.msi.com

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