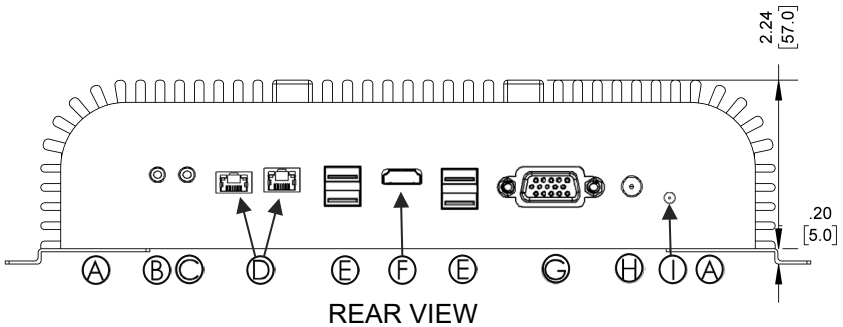
IPC2550B



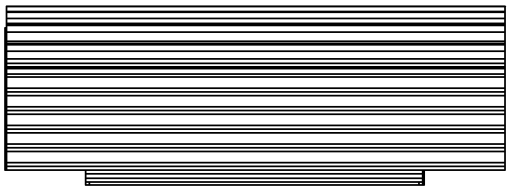
Heavy Duty Fanless Industrial Box PC with **Hexa-core** or **Deca-core** Intel® Alder Lake Processors

- 4K Ultra High-Definition Resolution Supported
- Up to 64GB DDR5 RAM, 2TB Storage Options
- Microsoft Windows® 10 IoT, Windows® 11 IoT or Linux® OS Options
- Optional Wi-Fi Kit with Bluetooth 5.2 Support
- Extended Operating Temperature (-20~60°C)
- Pair with our Industrial Monitors

System	**CPU**	Intel® Hexa-Core : i3-1215UE @ 1.2GHz Intel® Deca-Core : i5-1235U @ 1.3GHz Intel® Deca-Core : i7-1255U @ 1.7GHz
	System Chipset	SoC
	CPU Graphics	i3 CPU: Intel UHD Graphics i5 CPU: Intel Iris Xe Graphics i7 CPU: Intel Iris Xe Graphics
	System Memory Options	2 x DDR5 262-pin SO-DIMM RAM (8, 16, 32, 64 GB)
	TPM Module	Yes (TPM 2.0)
Front Panel I/O	**USB**	4 x USB 2.0 Type A
	Serial	2 x RS-232/422/485 DE-9P, COM2/COM3 (default RS-232)
	Display Interface	1 x HDMI® 2.0b port (max. 4096 x 2160 pixels @60Hz)
Rear Panel I/O	**USB**	4 x USB 3.2 Gen 2 Type A
	Serial	1 x RS-232 DE-9P, COM1
	Display Interface	1 x HDMI® 2.0b port (max. 4096 x 2160 pixels @60Hz)
	LAN	2 x 2.5 GbE RJ-45
	Wireless LAN	2 x Wireless LAN Antenna ports (covered unless optional Wi-Fi Expansion kit purchased)
	Audio	1 x 3.5 mm Line-out 1 x 3.5 mm Mic-in
	Power	1 x DC power input jack
	Power Switch	1 x Momentary Pushbutton with LED
Storage	**Solid State Drive Options**	1 x M.2 2280 NVME 3D TLC (128, 256, 512 GB, 1TB, 2TB SSD)
	SD Card Slot	N/A
Expansion	**Expansion Option**	Optional Wi-Fi kit (IEEE802.11ax card and 2 x antenna, Bluetooth 5.2 Support)
Electrical	**Input Voltage**	9~36 VDC (19VDC Nominal)
	Input Current	10 A Max.
	Input Power	90W Max.
Mechanical	**Construction**	Green Anodized Aluminum Heatsink, Black Steel Chassis
	Rating	IP30
	Mounting	Standard: Wall Mount, VESA 75x75 (VESA Mounting Hardware not Included) Optional: 35mm DIN-Rail Mounting Kit (Sold separately)
	Dimension (W x H x D)	9.65 x 6.65 x 2.24 inches [245 x 169 x 57 mm]
	Net Weight	Approx. 6.28 lbs. [2.85 kg]
Environmental	**Operating Temperature**	-4~140°F [-20~60°C]
	Storage Temperature	-40~185°F [-40~85°C]
	Storage Humidity	0 to 90%, non-condensing
	Certification	CE / FCC Class A* / RoHS
Operating System	**Microsoft Windows® Options**	Microsoft Windows® 10 IoT Enterprise Embedded LTSC 64-bit (EPKEA) Microsoft Windows® 10 IoT Enterprise LTSC 64-bit (PKEA) Microsoft Windows® 11 IoT Enterprise Embedded GAC 64-bit (EPKEA) Microsoft Windows® 11 IoT Enterprise GAC 64-bit (PKEA) Microsoft Windows® 11 Professional
	Linux® Options	Linux® Ubuntu Desktop Linux® Ubuntu Server
Notes	* FCC Class A Certified at 19VDC Specifications subject to change without notice	

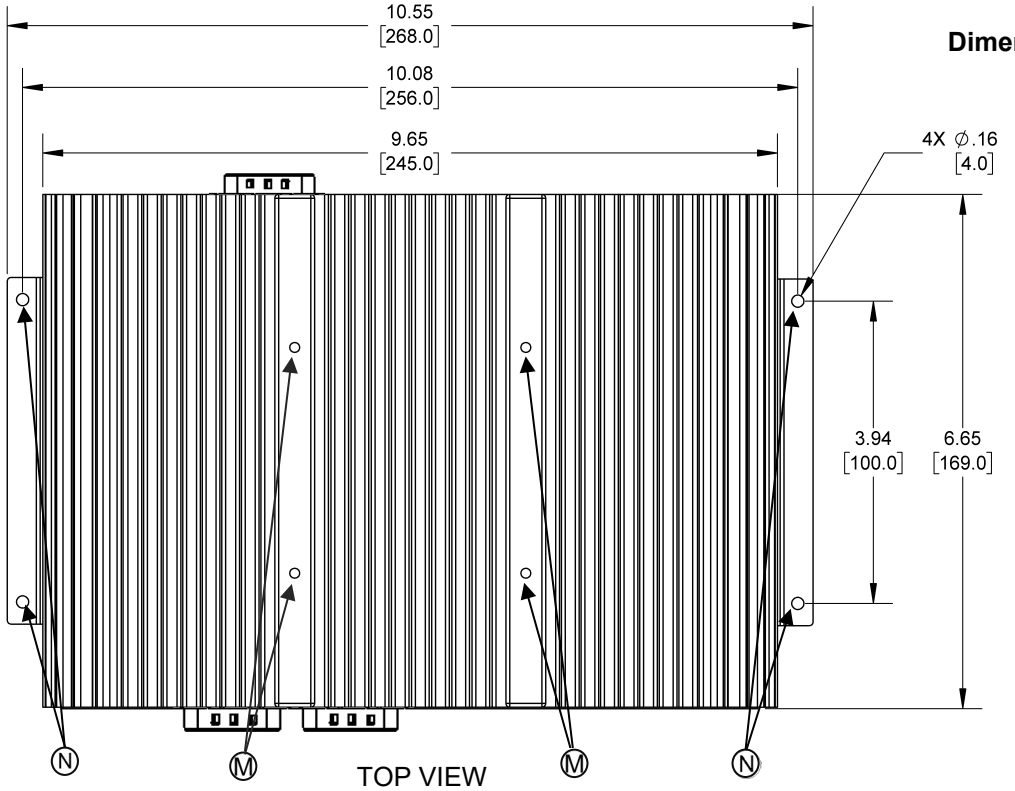


REAR VIEW

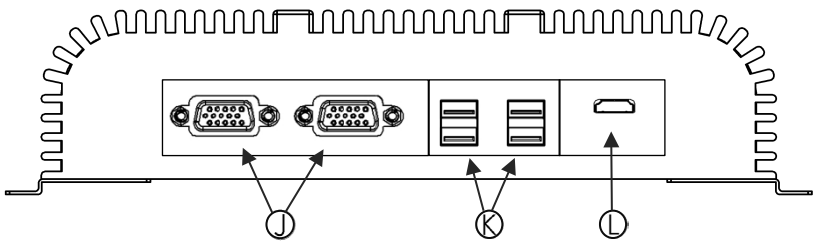


SIDE VIEW

Dimensions are in inches [mm]



TOP VIEW



FRONT VIEW

A	Antenna Fixture x 2
B	3.5mm Line-out
C	3.5mm Mic-in
D	2.5 Gigabit Ethernet Port x 2
E	USB 3.2 Host Ports x 2
F	HDMI 2.0b Port
G	COM Port DE9P
H	DC Power Input
I	Power Button
J	COM Ports DE9P x 2
K	USB 2.0 Host Ports x 4
L	HDMI 2.0b Port
M	VESA 75mm M4 Screw Holes
N	Wall Mount Holes

Why Buy A Maple Industrial PC

In addition to our powerful and affordable hardware, we'll also continue to support your company long after a sale. Wide product selection, large in-stock inventory, outstanding product warranty, free technical support and software, and in-house repairs with quick turnaround times, Maple Systems has your business covered.



Customize To Meet Your Needs

Companies have chosen Maple Systems solutions over Allen-Bradley, Omron, Siemens, Panasonic, and so many others, in hundreds of applications, in every industry, and in every type of organization. Our Industrial PCs are designed to resolve your toughest automation challenges in manufacturing, processing, and fabrication environments, and because we offer thousands of different configurations, designing your IPC to meet your unique requirements is easy.

All our Industrial PCs are ideal for applications in industrial automation, healthcare, manufacturing, oil & gas, packaging, building automation, water, energy, agriculture, food & beverage, and more. Our offerings include high brightness/sunlight readable displays, extended temperature IPCs, stainless steel enclosures, and Class I, Div 2 certified IPCs. Learn more about the industries we serve and discover why more and more companies are choosing Maple Systems.

Supports Your 3rd Party Software

Since our Industrial PCs can be configured with either a Windows™ or Linux™ Operating System, adding your own software is easy. Don't be tied to expensive industrial computers or HMIs just because of a name. Our IPCs support FactoryTalk®, Ignition SCADA®, Emerson Ovation®, Simatic SCADA®, Predator Touch HMI®, and hundreds of other HMI and SCADA software solutions.

We are a proud partner of Award-winning AVEVA™ Edge. This powerful HMI/SCADA software package enables you to create custom industrial control applications for your unique industry, putting you in the driver's seat of creating your industrial process. With easy-to-use commands/ tool bars and a Microsoft Windows® programming environment, AVEVA™ Edge's feature-rich application puts you in the driver's seat of creating your industrial process. Learn more about AVEVA Edge.

Build your SCADA

We offer all the components you need to create your own unique level of supervisory data acquisition and control, from the simplest stand-alone machine to sophisticated multi-device networked production line(s), all the way to enterprise-level operations and IIoT functionalities leveraging cloud connectivity.

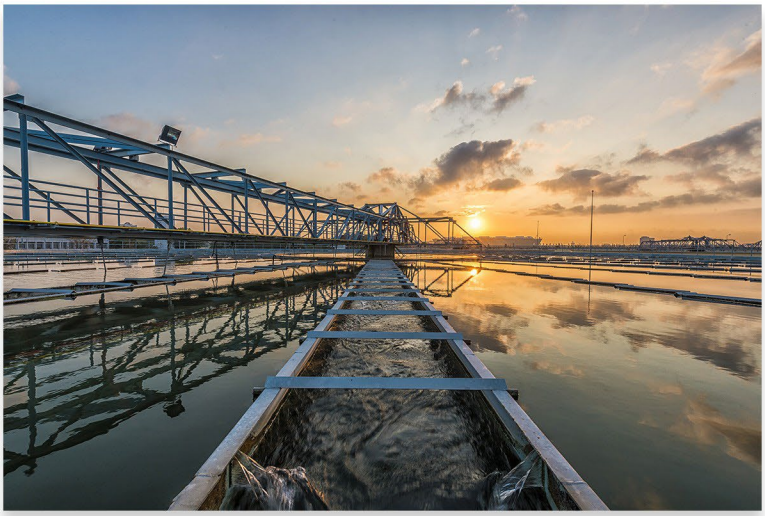
Our products can help you standardize communications between devices, gluing different systems together for one source to your SCADA. No need to redesign your entire application. Keep the components that are already working for you, just add Maple Systems components to grow your abilities to supervise, control, and acquire data.

Application Story

Pharmaceutical Equipment

Adding a Maple Systems Stainless Steel Industrial Panel PC with Wi Fi to an existing machine saved this OEM time and money

This OEM manufacturer uses a Maple Systems Industrial Panel PC for their production-series tablet pressing machines. The rotary tablet press boasts features essential for successful mid-sized tableting without the full-scale price. This application required a cost effective 12" panel touch screen industrial PC with enough computing power for their custom software and reporting system. They also required the front bezel be stainless steel with a IP69K rating to meet washdown sanitization requirements. See how we support the Pharmaceutical and Medical Industry.



Case Study

Water / Wastewater Treatment

Our High Brightness Industrial Panel PC with Wi-Fi checked all the boxes for this System Integrator

During their large revamping of a utility control system, Aqua Sierra's customer North Tahoe Utilities needed a PC-based HMI to run a simple Wonderware SCADA project as an interface. The PC needed to allow 3rd party software logging and reporting tools for their utility management system. The control room facility is climate controlled with large windows and bright overhead lighting. The remote facility did not have Ethernet cabling out to the PC location, however there was a Wi-Fi router connection nearby. Read how we support the Water & Wastewater industry.

Application Story

Dairy / Agriculture Equipment

The Stainless Steel enclosure makes this Industrial Panel PC the right choice for the food and beverage industry

This customer is a leading OEM manufacturer of custom stainless steel processing equipment and a preferred provider of quality products and services to the cheese, dairy, food, beverage and other sanitary industries. The customer's dairy processing equipment required an IPC that operators can interface with while wearing gloves. Another major requirement is that the PC be IP69K washdown rated to endure the regular cleaning and disinfecting required; and for compliance and record keeping, the customer needed real time data logging and storage using a 3rd party historian application running on the PC. Read more about the Food & Beverage OEMs we support everyday.

