


IPM-13SB / IPM-15SB / IPM-17SB

FANLESS MINI PC FOR INDUSTRIAL APPLICATIONS












Reliable Performance. Built for Industrial Applications.

Compact, fanless and robust design with 12th Gen Intel® Core™ processors.
Ideal for automation, machine vision, edge computing and more.

 FANLESS DESIGN Aluminum chassis for 24/7 stable operation	 12TH GEN INTEL® CORE™ High performance up to 10 cores	 TRIPLE DISPLAY 3x HDMI supports synchronous / asynchronous display	 RICH I/O Multiple COM, USB, LAN ports for industrial connectivity	 INDUSTRIAL GRADE Wide temperature, watchdog, TPM 2.0 for reliable operation
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AT A GLANCE

 CPU Intel Core i3-1215U (6 core 8 threads, Turbo 4.4G) Intel Core i5-1235U (10 core 12 threads, Turbo 4.4G) Intel Core i7-1255U (10 core 12 threads, Turbo 4.7G)	 I/O INTERFACE 2x COM (2xCOM RS232/485 Optional) 4x USB 3.2 1x Power Switch 1x SIM slot	 EXPANDABLE I/O (OPTIONAL) 2x USB2.0, 4x GPIO
 MEMORY 1x DDR5 4800MHz SODIMM slot Max. Support 32GB	 NETWORK 3x Intel i226-V 100/1000/2500M	 OTHER FUNCTION TPM 2.0, Auto power on, Wake on LAN, PXE boot, Watch Dog
 GRAPHICS & DISPLAY Intel UHD Graphics 3x HDMI (support synchronous / asynchronous triple display)	 EXPANSION SLOT 1x M.2 2280 M-Key (PCIe 4.0 x4 & NVMe) 1x M.2 3052 B-Key (USB 3.0, 4G/5G) 1x M.2 2230 E-Key (PCIe & USB, CNVio2, WiFi / BT) *Support PCIe 4.0 x4 NVMe	 POWER INPUT DC 12V Phoenix terminal (9-36V DC Optional) AC 100 - 240V
 STORAGE Support 1x M.2 2280 NVME 1x 2.5" SATA	 OPERATING TEMPERATURE 0°C ~ +40°C (HDD) -20°C ~ +60°C (Industrial grade SSD)	

INDUSTRY APPLICATIONS




COMPLETE SPECIFICATIONS

ITEM	SPECIFICATION
CPU	Intel Core i3-1215U (6 core 8 threads, Turbo 4.4G), Fanless Intel Core i5-1235U (10 core 12 threads, Turbo 4.4G), Fanless Intel Core i7-1255U (10 core 12 threads, Turbo 4.7G), Fanless
RAM	1*DDR5 4800MHz SODIMM memory slot, Max. Support 32GB
BIOS	AMI EFI BIOS
Display Chip	Intel UHD Graphics
Display Port	3*HDMI (support synchronous/asynchronous triple display)
Front I/O	2*COM (2*COM RS232/485 Optional), 4*USB3.2, 1*Power Switch, 1*SIM slot
Rear I/O	1*DC-IN 12V, 3*HDMI, 3*2.5G LAN, 1*Audio (Support Mic and Speaker at the same time)
Expandable I/O	Optional 2*USB2.0, 4*GPIO
Expansion Slot	1*M.2 2280 slot M-Key (Support M.2 PCIe4.0 X4 and M.2 NVME); 1*M.2 3052 slot B-key (USB3.0 Support 4G/5G); 1*M.2 2230 slot E-key (PCIe & USB / CNVio2, Support WIFI/ BT);
Network	3*Intel i226-V 100/1000/2500M
Storage	Support 1*M.2 2280 NVME, 1*2.5" SATA
Other Function	TPM2.0, Auto power on when there is electricity, Wake on LAN, PXE boot, Watch Dog
External Power Supply	AC 100 - 240V
Working Voltage	12V DC Phoenix terminal(9-36V DC Optional)
Temperature Range	Operating: 0°C ~ +40°C (HDD), -20°C ~ +60°C (Industrial grade SSD), surface air flow
Relative Humidity	5%~95% , non-condensing
Accessories	Power adapter, power cord, Vesa mount, warranty card
Mounting (Options)	Wall mounting brackets (optional)
Warranty	2 years warranty
Certificates	CE, FCC, RoHS
OS Support	Windows 10, Windows 11, Linux..


MORE DETAILS (Added / Updated)

- AMI EFI BIOS
- Optional 2x USB2.0, 4x GPIO
- Operating Humidity: 5%-95% non-condensing
- Full specification available upon request

ACCESSORIES

-  Power adapter, power cord, VESA mount, warranty card


MOUNTING OPTION

-  Wall mounting brackets (optional)

WARRANTY

-  2 years warranty

OS SUPPORT

-  Windows 10, Windows 11, Linux

CERTIFICATIONS

- CE, FCC, RoHS