



About Us

Portwell, Inc. was founded in Taiwan in 1993 and entered the Industrial PC market in 1995 by developing single-board computers. Today, as an industrial embedded systems manufacturer and solutions provider, our continued development of leading-edge products has resulted in strong growth in market share. This has established Portwell as a major world-wide supplier of specialty computing application platforms. Portwell, Inc. is a Titanium member of Intel Partner Alliance, and an executive member of the PCI Industrial Computer Manufacturers Group (PICMG)

Portwell designs and manufactures Communication Appliances along with a full range of Industrial Platform Service (Computer on Module, Embedded Computing, Industrial Computer), Communication Appliance Service (Software Defined Wide Area Network, Advanced Networking products), Vertical Market Service (Gaming, Medical, industrial Automation, Smart Transportation, Energy, Smart Manufacturing, Internet of Things(IoT), AI Solutions, Panel Device Service (Panel PC and Display)

Portwell Products Portfolio



- 4u Rackmount ipcs
- 2u Industrial Servers
- 1u Industrial Servers
- Industrial Motherboards
- Single Board Computers
- Industrial Backplanes
- Industrial Power Supply
- COM Express
- Desktop Appliance
- 1U Rackmount Appliance
- Industrial Panel PCs
- Embedded Box PCs
- SD-WAN Solutions
- KVM Display Consoles
- Industrial Displays
- PicMG solutions



- Q-Seven Module
- SMARC Module
- MIL Grade Box PC
- Industrial Monitors
- Industrial Memory
- Industrial Storage
- cPCI



- Medical Grade Boards
- Medical Box PCs
- Medical Panel PCs
- Nursing Carts



- Logic Units
- Gaming CRM
- Server Boards
- Display PPC
- Gaming Terminal



- Transmission Span
Sag Guardian
- EHV Transmission Line
Safety Monitoring System
- Transmission Line
Monitoring Device
- Critical Analysis Services

With streamline access to the latest Intel technology, delivering cutting-edge solutions to meeT and even exceed the demanding needs of the ever-changing telecommunication, medical electronics, industrial automation, defense and life automation markets. Portwell's one-stop shopping approach of full product selection, competence and sophisticated customer support, Portwell helps all our customers pave the royal road to success and stay ahead of competition.

INDUSTRIAL MOTHERBOARDS

ATX MOTHERBOARD

ATX motherboard Support Desktop Alder-Lake Intel® 12th Gen Core™ Processors with DDR4 Long- DIMM up to 64Gb , VGA DP port , HDMI ,Dual GbE LAN, Six COM Ports

- Intel® 12th Gen Alder-Lake Core™ i3/i5/i7/i9 Processors support
- Two Long-DIMM support DDR4 Non-ECC DRAM up to 64GB
- Support dual Ethernet, 6-COM Ports, 4-USB 3.2 Ports , 4-SATA III Ports and Line-Out/Mic-In
- 2-PCIe x16 (1-PCIe x4 signal), 1-PCIe x1 , 4-PCI slot, 1-M.2 2242/2260/2280 (Type M)



3.5 | Min-ITX Motherboard

Industrial 3.5_ SBC and Industrial Min-ITX Motherboard

- Intel® 12th Gen Intel i9/i7/i5/i3 Core™ and Celeron Processors support
- Support 1-DDR 3L 1333/1066M Hz Single /Dual CH up to 4 GB /8GB
- Dual LAN, DVI-I output, SATA 2.0, 8-USB, 4-Serial, 1-Audio 9~24V DC-In
- Supports Dual displays with LVDS and DVI-I
- Support 1 - Serial ATA II (3Gb/s) Device
- Supports 4-COM ports, 8-USB, 1-Line-out, 2-LAN

COM Express

COM Express Type-6 Basic module with Intel® 11th Gen H Processor with DDR4 SO-DIMM, DDI, PCIe Gen 4.0, USB 3.2 Gen2x1, 2.5 Gigabit TSN Ethernet, discrete TPM 2.0, eDP/LVDS, SATA III & VGA

- 11 Gen Intel® Core™, Celeron®, and Xeon® W-11000E Series processors in 10nm Super Fin Process technology
- AI/DL Instruction sets Support (Intel VNNI, AVX-512, INT8, FP16)
- Up to 8C/16T@45W and 25W with Industrial temperature SKUs
- DDR4 SO-DIMM, PCIe Gen 4.0 x16, and 8x PCIe Gen 3.0 x1
- Complete Support of 3x DDI, eDP/LVDS, and VGA
- Support Intel® TCC/TSN with 2.5GbE



PICMG SBC

Intel® 12th/13th/14th Generation chipset 600 series with processor based on PICMG 1.3 SHB with DDR5 SDRAM,HDMI, DVI-D, DP, Dual Gigabit Ethernet, Audio and USB

- Supports Intel® 12th/13th/14th Generation Core processors Family in LGA 1700 package
- Two SO-DIMM support DDR5 DRAM up to 96GB
- Supports mutiple display by DVI-D ,DP and HDMI
- High speed dual 2.5Gigabit Ethernet based on PCI express x 1, high bandwidth I/O interface
- Support two USB 3.2 Gen2 and USB 3.2 Gen2x2 on REAR I/O
- Support on board TPM2.0

FANLESS BOX PC

WEBS-35C1

Embedded Rugged Fan-less System with Intel® 6th Skylake-S Core™ i3/i5/i7 based Mini-ITX Board

- Intel® Core™ i High performance Fan-less Embedded Box PC
- 6th generation Intel® Skylake-S Core™ i3/i5/i7 Desktop processor (Quad-Core CPU supported)
- Dual UB-DIMM DDR4 up to 32GB
- 2x 2.5" SATA HDD/SSD, 1x mSATA
- Rich I/O is good for versatile applications
- 1x M.2 socket, 1x Full-size Mini-PCIe socket
- Rugged design is good for using in harsh environment



WEBS-8910

Rugged Fanless Embedded System with Intel® Celeron® J6412 SoC based proprietary board

- Powered by Intel® Celeron® J6412 SoC
- Compact, Rugged, and Fanless Design
- 1x DDR4-3200MHz SO-DIMM up to 32GB
- 3x GbE, 3x USB, 1x RS-232 and 1x RS-485
- 1x M.2 2242 M key for SSD and 1x mini-PCIe for Wi-Fi/4G/LTE wireless connectivity
- Dual 4K Displays support through HDMI, DP
- Extended operating temperature -20 ~ 60°C
- Supports DIN-rail, Wall mounting



PBC-02013

Industrial Fanless Embedded Computer with Intel® SoC Celeron, i3/i5/i7 4th, 5th, 6th, 7th & 8 Gen processor, Dual LAN, Mini PCIe for Wi-Fi

- Support Celeron, Core i3/i5/i7-4th, 5th, 6th, 7th and 8th gen SoC Processor
- Support up to 64GB RAM
- Support Dual Display VGA & HDMI, Dual LAN, 6-USB
- Support One Mini-PCIe for Wi-fi/4G Module, one M.2 2260/2280 NVMe SSD
- Support 6-COM ports (COM 5, 6 - supports RS232/485 switching)
- 2x Antenna hole for WiFi or 4G/GPS module to use
- Audio Line-out/ Mic-In



PBC-1137G7

Latest 11th I5/I7 CPU industrial box pc with 6com and GPIO (IBOX-B6211)

- Compacting fanless design
- Support Intel I5 1137G7 quad core 2.4 Ghz CPU (I7 1165G7 optional)
- Support 1* VGA , 1* HDMI , 1* PS2 , 2* LAN , 2 * USB 2.0, 4* USB3.0, 6* COM (optional)
- 3 pin power socket , Support DC 9V ~36V wide voltage input



INDUSTRIAL PANEL PC

10.4" PANEL PC

10.4" TFT LED Industrial Panel PC with PCAP Touch, IP65 Front

- Resolution 1024*768
- Supports WINDOWS/LINUX Operating Systems
- On-board J1900/J4105/J4125/J6412/3/4/6/7/8/10/11th generation Core i3/i5/i7
- 2*USB/1*HDMI/1*VGA, 1*RJ45, 2*RS232, 1*Hp-out /1*Mic-in
- Support 4G/5G Internet access function to meet communication requirements (separate module required)
- Support Wifi, Bluetooth, GPS communication module (need to add a separate module)
- DC12V power input



12.1" PANEL PC

12.1inch TFT LED Panel PC with PCAP touch



- Supports WINDOWS/LINUX OS
- On-board J1900/J4105/J4125/J6412/3/4/6/7/8/10/11th generation Core i3/i5/i7
- 2*USB/1*HDMI/1*VGA, 1*RJ45, 2*RS232, 1*Hp-out /1*Mic-in
- Support 4G/5G Internet access function to meet communication requirements (separate module required)
- Support Wifi, Bluetooth, GPS communication module (need to add a separate module)
- DC12V power input

15" PANEL PC

15inch TFT LED Panel PC with PCAP touch

- Support Celeron, Core i3/i5/i7-4th, 5th, 6th, 7th and 8th gen SoC Processor
- Support up to 64GB RAM
- Support Dual Display VGA & HDMI, Dual LAN, 6-USB
- Support One Mini-PCle for Wi-fi/4G Module, one M.2 2260/2280 NVMe SSD
- Support 6-COM ports (COM 5, 6 - supports RS232/485 switching)
- 2x Antenna hole for WiFi or 4G/GPS module to use
- Audio Line-out/ Mic-In



21.5" PANEL PC

21.5inch TFT LED Panel PC with PCAP touch



- Supports WINDOWS/LINUX OS
- On-board J1900/J4105/J4125/J6412/3/4/6/7/8/10/11th generation Core i3/i5/i7
- 2*USB/1*HDMI/1*VGA, 1*RJ45, 2*RS232, 1*Hp-out /1*Mic-in
- Support 4G/5G Internet access function to meet communication requirements (separate module required)
- Support Wifi, Bluetooth, GPS communication module (need to add a separate module)
- DC12V power input

INDUSTRIAL CHASSIS

PRC-1194

19" 1U Height industrial rack-mount P4 chassis

- Single power supply with higher +12V output for Pentium® 4 processor
- Cooling tunnel design for expiring heat generated by CPU
- Power cable routed beneath the cooling tunnel to avoid disturbance of air path
- Two PCI expansion slots for adding more functions to system



AREMO-2173P

19" 2U industrial rack-mount chassis for PICMG backplane

- One slim CD-ROM and two hot-swap 3.5" HDD (SATA) Drive bays
- Two USB ports on the front panel
- Two 7cm ball-bearing cooling fans for better ventilation
- One power On/Off switch with protection cap and one touch free reset for secure access



AREMO-3194

19" 3U rack-mount chassis for ATX M/B platform IEEE 1394 port and two USB ports on the front panel

- Dedicated cooling fans for expiring the heat on the hot spots within the chassis
- Dustproof front-access air filter for easy cleaning and replacing
- Lockable front door provides greater security
- Thumb lock for greater security and to operate system more easily



PIRON-4508

19" 4U Industrial Economical rack-mount motherboard version chassis

- 8x 3.5" HDD Bays for RAID, 1x 3.5" FDD Bay and 2x 5.25" DVD/CD-ROM
- Two 80mm fans on rear panel
- One 120mm Fan on front
- Two USB ports on the control panel
- Standard PS2 power supply.
- ATX, Micro-ATX and Mini ITX Motherboard applicable



SDWAN & EDGE AI IOT SOLUTIONS

PJAI-100 (Edge AI)

Fanless Compact System with NVIDIA® Jetson Orin Nano™ SOM for Edge AI Applications

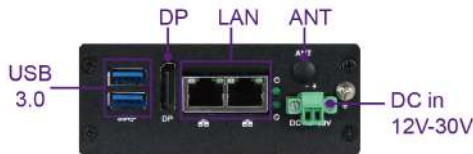
- Fanless System with NVIDIA® Jetson Orin Nano™ SOM
- 4GB/8GB 64-bit LPDDR5 (By SOM)
- 1x M.2 2280 M-Key NVMe (PCIe x4)
- Supports 1x M.2 2230 E-Key, 1x M.2 3042/3052 B-Key and 2x Nano SIM slots
- Supports 2x RJ45 GbE and 3x USB 3.2 Type A ports
- 2x DB9 COM ports and 1x DB9 CANbus



Lynx Series (SD-WAN)

19" 2U industrial rack-mount chassis for PICMG backplane

- Palm-sized power and innovation for integrated AIoT solutions based on various Intel processors
- Certified by Microsoft Azure IoT Edge Device.
- LYNX Series provides a rich portfolio of ultra-small form factor IoT appliances that offer a variety of features including low power consumption connectivity and expansion, rich interfaces for data acquisition and server connection, ruggedized design, and industrial regulatory compliance.
- It's one of the best AIoT solutions for you.



SD WAN Solutions

ANS-2121/41/42 desktop appliance series with Intel® Apollo Lake processor E3900 family up to 4-Core, up to 10x GbE ports, PoE+, suitable for SDN (SD-WAN) application with 5G and IoT devices deployment.

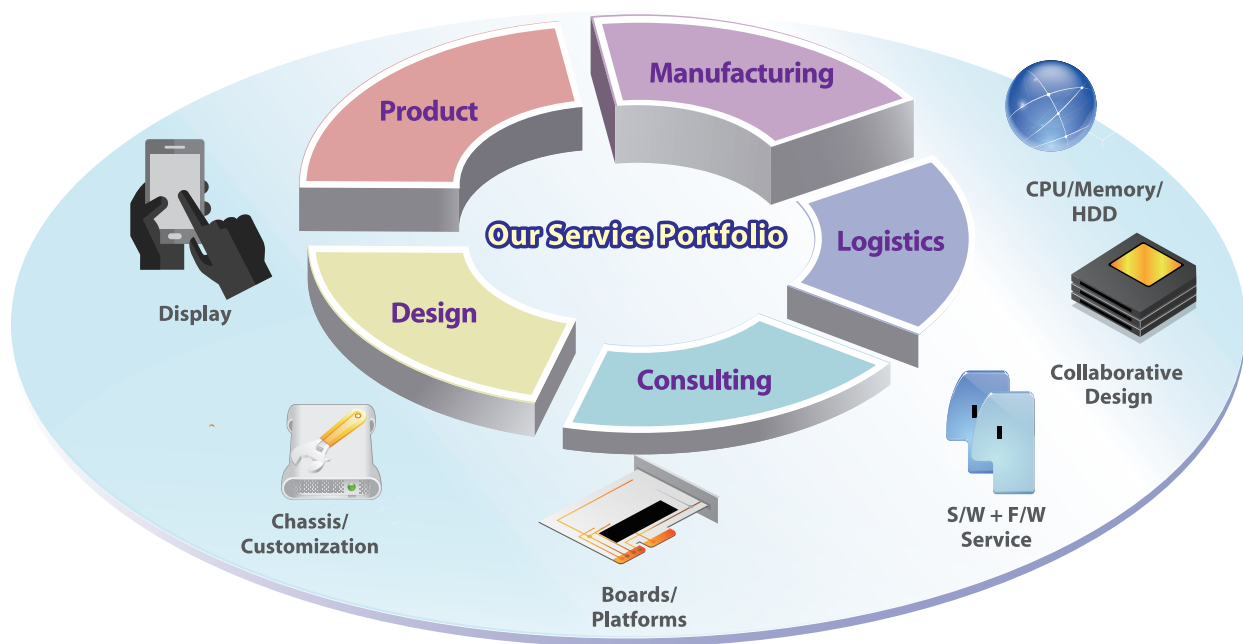
- 2x GbE RJ45, 8x GbE RJ45 (with PoE+ support by SKU)
- 1x RJ45 Console, 1x HDMI, 2x USB3.0
- 1x DDR3L 1866/1600/1333 MT/s ECC SO-DIMM up to 8GB
- 1x eMMC 16GB(on-board), 1x TPM2.0 (on-board)
- 1x Mini-PCIe(PCIe/ USB2.0), 1x M.2 Key-B Slot(PCIe/ USB3.0), 1x SATA III, 2x micro SIM
- Design ready for 5G and WiFi 6 (802.11ax)
- Compact design 2 in 1U rackmount



Network Appliance Series

- Supports LGA1151 6th/7th Gen Core i3/i5/i7 Pentium/Celeron Xeon E3 1200 v5/v6/(C236 chipset) processors
- Deploy Intel C236 express chipset
- Supports 4 x DDR4 DIMM 2133MHz RAM, Max. 64GB(ECC/Non-ECC)
- Supports 6 x Intel i211AT GbE Ethernet ports,
- Supports Wake On LAN, PXE booting
- Supports Max. 2 x expanded NIC
- Supports 1 x RS232 console port(RJ45 type, Cisco Standard)
- Supports 2 x USB 2.0 headers, 2 x USB 3.0 ports
- Supports M-SATA SSD, CF, SATA HDD storage





KVM Display Console Drawer

- 1U/2U Height
- 15", 17", and 19" options
- 4 port, 8 port and 16 port input options
- Extended Temperature option



Industrial Display Monitor

- 10.4", 12.1", 15", 17", 19", 21.5", 24", 27", 32" & 55" size options
- Industrial Design and High-Brightness
- High Resolution till 4K available
- Aluminium front bezel with front IP65
- Multiple inputs available DP, DVI, HDMI and VGA options
- PCAP and Resistive touch options
- Extended Temperature options

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