

Rugged Fanless Computer

High Performance Computer (AVP2000 Series)

About the Product

AVP2000 is a high performance fanless embedded and display computer powered by Intel® 6th generation Core™ U series processor with only 15 watt power consumption. The advanced graphics engine support triple independent display with 1x VGA, 1x DVI-D and 1x CDS interface. AVP2000 provides great connectivity with rich I/O including 2x GbE LAN, 5x USB and 6x COM ports. AVP2000 also supports 3 types of storage devices including 2.5" SATA HDD, CFast and mSATA. The accessible design of these storage devices allows quick data access and easy maintenance.

Expert Vision



Key Features

AVP2000 supports CFM Technology which allows you to extend PoE and IGN function with additional modules. AVP2000 also acts as an engine of panel PC for CV-100 Series. AVP2000 is truly a rugged computing system by supporting wide operating temperature from -25°C to 70°C, wide range DC power input from 9V to 48V, high tolerance of shock and vibration, various kinds of industrial protection and the integrated Super Cap for battery maintenance-free, those features allow AVP2000 to be easily deployed in harsh environment and critical applications.

Intelligent ultracapacitor-based power backup module



"2500 watt-second energy capacity"



Specifications:

Model Name	P2002E		
Processor System	Onboard 6th Intel® Core™ U processors (Skylake)	Other Function	Support CDS Technology
	-Intel® Core™ i5-6300U processor (3M Cache, up to 3.00 GHz)		Support CFM Technology
	-Intel® Core™ i3-6100U processor (3M Cache, 2.30 GHz)		Support Instant Reboot Technology (0.2 sec)
	-TDP: 15 W		Support Power Ignition Sensing (IGN)
	-BIOS: AMI 64Mbit SPI BIOS		Support OSD Function
Memory	2x DDR4 260-pin SO-DIMM socket, support up to 32 GB	Power Requirement	(LCD On/Off, Brightness Up, Brightness Down for CDS Display Module)
	(2133MHz, un-buffered and non-ECC type)		Internal Speaker AMP 2W + 2W
Graphics	Intel® HD Graphics 520	Physical	SuperCap Integrated
	Triple independent display with 1x VGA, 1x DVI-D and 1x CDS interface		Watchdog Timer:
Audio	Realtek® ALC888-GR	Protection	Software Programmable Supports 1~255 sec. System Reset
	High Definition Audio		Support AT/ATX Power Mode
I/O Interface	1x VGA (Up to 1920 x 1080 @ 60Hz), DB-15	Power Requirement	Power Input Voltage 9~48VDC
	1x DVI-D (Up to 1920 x 1080 @ 60Hz)		One 3-pin Terminal Block Connector
	1x CDS Interface, Compact PCI Connector		Optional Power Adapter AC/DC 12V/5A 60W or 24V/5A 120W
	2x GbE LAN (Support WoL, Teaming, Jumbo Frame and PXE), RJ45	Physical	Dimension (WxDxH): 254.5 x 220 x 72 mm
	-GbE1: Intel I219LM		Weight: 3.18 kg
	-GbE2: Intel I210AT		Extruded Aluminum with Heavy Duty Metal
	2x PoE+ (with Optional CFM PoE Module)		Support Wall / VESA / CDS Mounting
	-Comply with IEEE 802.3at, Offers Up to 25.5W Per Port		Fanless Design
	6x RS-232/422/485 with Auto Flow Control (Support 5V/12V), DB9	Protection	Jumper-less Design
	4x USB 3.0, Type-A		Reverse Power Input Protection
	1x USB 2.0, Type-A		Over Voltage Protection: 58V
	16x Isolated DIO (8x DI/8x DO), 20-Pin Terminal Block		Over Current Protection: 15A
	1x Line-out & 1x Mic-in, Phone Jack 3.5mm		ESD Protection: +/-15kV (air), +/-8kV (contact)
	1x Power On/Off Switch	Operating System	Surge Protection: 3KW
	1x Reset Button		Windows® 10
1x AT/ATX Switch	Windows® 8.1		
1x Remote Power On/Off Connector, 2-Pin Terminal Block	Windows® 7		
1x External FAN Connector, 4-Pin Terminal Block	Linux® Kernel 4.4		
Storage	2x 2.5" SATA HDD/SSD Bay, Support RAID 0/1 (Gen3)	Environment	Operating Temperature: -25°C to 70°C
	2x mSATA (One Shared by Mini-PCIe Socket) (Gen2)		(With extended temperature peripherals; Ambient with air flow
	1x CFast Socket (Gen3)		According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
Expansion	1x CFM PoE interface	Environment	Storage Temperature: -40°C to 85°C
	1x CFM IGN interface		Relative Humidity: 95% RH @ 40°C (Non-condensing)
	2x Full-size Mini-PCIe Socket		Shock: Operating, 50 Grms, Half-sine 11 ms Duration
	1x PCI or 1x PCIe4 Expansion slot		(with SSD, according to IEC60068-2-27)
	Optional Riser Card: 1x PCI, 1x PCIe4		Vibration: Operating, 5 Grms, 5-500 Hz, 3 Axes
	Support maximum dimension of add-on card		(with SSD, according to IEC60068-2-64)
	(H x L): 100mm x 200mm		EMC: CE, FCC Class A
	1x Universal I/O Bracket		
	1x SIM Socket		
4x Antenna Hole			

 DATASHEET

Contact us for Product Data Sheet

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