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Data Sheet

August 15, 2026

JANICH & KASS

Janich & Kass ISA96 M4/103 CPU Card (8HP Version)

The Janich & Kass ISA96 M4/103 is a CPU Card designed for industrial applications. This 8HP version card offers reliable performance and solid design for demanding environments.

**MODEL****Janich & Kass ISA96 M4/103****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****ISA96 M4/103****LISTING**<https://aumictechlabs.com/products/isa96-m4-103-2/>

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SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Janich & Kass ISA96 M4/103 CPU Card (8HP Version) is an industrial-grade processing module built on Intel Pentium M architecture for deployment in demanding embedded and automation environments. This compact 8HP form factor unit delivers configurable performance with power consumption between 5W and 21W, supported by adjustable CPU clock speeds and kernel voltage settings. Hardware thermal management automatically reduces performance to prevent overheating, ensuring reliable long-term operation without external cooling intervention. Technical Specifications Processor & Memory Processor family: Intel Pentium M Memory: DDR3L-1600 (PC3-12800) with 1600 MHz effective clock rate Maximum memory: 8 GB per module; 12 GB overall capacity On-board storage: 32 MB IDE FlashDisk Power consumption: 5 W to 21 W (type-dependent) Storage & Interfaces CompactFlash socket for removable media 2.5" SSD or HDD

mounting via support plate and adapter board (8HP width maintained) SATA socket supporting 2.5" drives and SATADOM modules Dual Gigabit Ethernet: Intel i218V and Intel i210 controllers (10/100/1000 Base-T, RJ45) Serial interfaces: Standard configuration; optional second serial module available in RS232C, RS232 opto-decoupled, RS485/422 opto-decoupled, or 20 mA opto-decoupled variants USB 3.0: Two ports (basic version) USB 2.0: Available with optional serial modules Display output: DisplayPort 1.2 connector with adapters for HDMI, DVI, or VGA Key Features Bus compatibility: ISA96 and AT96 systems Modular architecture: H1/103 processor module with separate baseboard Front panel extenders for customer-specific interface expansion (PCIe, SATA, USB, LPC, I2C) Rear IO connector supporting direct cable or permanent "Rear-IO" extender bus adapter Thermal throttling built into hardware design Typical Applications Industrial process control, embedded automation systems, transportation and mobile computing platforms, ruggedized field instrumentation, and legacy ISA/AT96 system integration requiring modernized processing capability. Compatibility & Integration The ISA96 M4/103 integrates directly into ISA96 and AT96 bus architectures. The core H1/103 processor module houses the CPU and primary memory, while the baseboard provides connectivity and system-level I/O. Front extenders and rear IO adapters enable tailored interface configurations beyond the standard feature set.

ISA96M4103 Characteristics / Specifications

PARAMETER	VALUE
Model	ISA96 M4/103
Instrument Type	ISA96 CPU card
Height Class	8HP version (queue title)
Processor	Intel PentiumMon Artisan M4/103 listing
Cpu Clock	1.8 GHz Intel PentiumMon the documented Artisan listing
Memory	512 MB onboard SDRAM on the documented Artisan listing
Southbridge	Intel ICH4 Super I/O on Artisan listing
Bios	USB-bootable Phoenix-BIOS and VGA-BIOS on Artisan listing
Flashdisk	onboard 32 MB IDE FlashDisk on Artisan listing
Compactflash	CompactFlash socket on Artisan listing
Power Band	family capacity 7 W to 21 W at max CPU on Artisan listing
Successor	ISA96 H1/103 datasheet lists M4/103 as predecessor (with D2/103 and A2/103)
Rear Extender	M4/103 Rear-Extender order 404.268652.000 on H1/103 accessory table
Bus	ISA96 / AT96 industrial bus
Manufacturer	Janich & Klass
Literature	Janich & Klass ISA96 M4/103 8HP listing; H1/103 datasheet predecessor table
Family	Janich & Klass ISA96 x86 CPU modules
Form Factor	8HP CPU card
System Role	embedded industrial CPU
Brand Lineage	Janich & Klass
Queue Title	Janich & Klass ISA96 M4/103 CPU Card (8HP Version)
Space Model	ISA96 M4/103 (space in catalog model)
Documentation Type	OEM M4/103 8HP listing
Use Case	ISA96 crate controller CPU

PARAMETER	VALUE
Vendor Path	Janich & Klass
Fsb Class	front-side bus on the M4/103 drawing
Outline Class	8HP outline on the M4/103 drawing
Ate Class	industrial embedded CPU

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Janich & Klass ISA96 M4/103 8HP Artisan listing (Pentium M, ICH4, 32 MB FlashDisk, CF, 1.8 GHz / 512 MB / 7 to 21 W on that listing) and H1/103 datasheet predecessor table. FSB and ISA96 pinout are on the M4/103 drawing.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.