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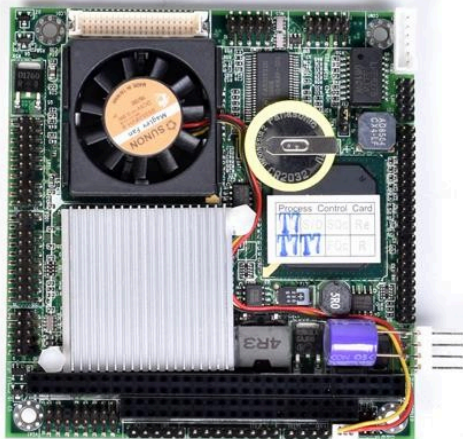
Data Sheet

August 15, 2026

DIAMOND SYSTEMS

Diamond Systems MOR-400 Morpheus High Integration PC/104 Celeron CPU

The Diamond Systems MOR-400 Morpheus is a high-integration PC/104 single-board computer engineered for embedded applications demanding compact form factor, low power consumption, and reliable operation across demanding thermal environments. Built around an Intel Ultra-Low Voltage Celeron processor (400 MHz or 650 MHz) with VIA VT8606/VT686B chipset, the board delivers integrated Savage4 2D/3D video acceleration, dual serial ports with configurable protocol support, Fast Ethernet, and flexible mass storage via IDE and CompactFlash interfaces. Processor: Intel Ultra-Low Voltage Celeron, 400 MHz or 650 MHz, 100 MHz FSB, uBGA package Video: VIA Integrated Savage4 accelerator with 32 MB shared memory, 4× AGP, VGA and LCD display support Storage: UDMA-33 IDE (up to 2 devices), CompactFlash Type I/II socket (up to 1 GB, bootable)



MODEL

**Diamond Systems
MOR-400**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MOR-400

LISTING

<https://aumictechlabs.com/products/mor-400-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Voltage Celeron processor (400 MHz or 650 MHz) with VIA VT8606/VT686B chipset, the board delivers integrated Savage4 2D/3D video acceleration, dual serial ports with configurable protocol support, Fast Ethernet, and flexible mass storage via IDE and CompactFlash interfaces. Technical Specifications Processor: Intel Ultra-Low Voltage Celeron, 400 MHz or 650 MHz, 100 MHz FSB, uBGA package Chipset: VIA VT8606 (North Bridge), VIA VT82C686B (South Bridge) Memory: User-supplied 144-pin PC133 SODIMM, up to 512 MB Video: VIA Integrated Savage4 accelerator with 32 MB shared memory, 4× AGP, VGA and LCD display support Storage: UDMA-33 IDE (up to 2 devices), CompactFlash Type I/II socket (up to 1 GB, bootable) Networking: Realtek RTL8100BL, 10/100 Mbps, Wake-on-LAN capable Serial: Two 16450-compatible ports (Port 1: RS-232 fixed; Port 2: RS-232/RS-422/RS-485 jumper-selectable) USB: 2× USB 1.1 Expansion: PC/104 bus Power: 5 VDC ±5%, 10.5 W @ 400 MHz (fanless), 15 W @ 650 MHz (with fan) Operating Temperature: 0°C to +60°C Dimensions: 90 mm × 96 mm; Weight: 110 g Key Features Programmable watchdog timer (1–127 seconds delay) Configurable serial protocol support via jumper selection Integrated Ethernet LED header for activity indication PS/2 keyboard/mouse interface Dual floppy drive support (20-pin header) Parallel port header (20-pin) Compatibility & Integration Supported operating systems: Linux, Windows 98/2000/XP/CE, DOS, QNX, VxWorks via DSC Universal Driver programming software. Power delivery via PC/104 bus or dedicated 4-pin connector.

MOR400 Characteristics / Specifications

PARAMETER	VALUE
Model	MOR-400
Instrument Type	PC/104 single-board computer
Family	Diamond Systems Morpheus
Processor	Intel ULV Celeron 400 MHz fanless
Processor Power	10.5 W at 400 MHz fanless (650 MHz sibling 15 W with fan)
Chipset	VIA VT8606 / VT686B
Memory	up to 512 MB 144-pin PC133 SODIMM user supplied
Display	CRT and flat panel with 2D/3D acceleration
Ethernet	Realtek RTL8100BL 10/100 Mbps with wake-on-LAN
Usb Ports	2 USB 1.1
Serial Ports	two 16450-compatible; port 1 RS-232; port 2 RS-232/422/485 via J5
Mass Storage	UDMA-33 IDE and CompactFlash
Other I/O	floppy, parallel, PS/2 keyboard and mouse
Watchdog	programmable 1 to 127 seconds
Expansion	PC/104 ISA/PCI stack
Input Power	5 VDC ± 5 percent
Operating Temperature	0 C to +60 C
Dimensions	3.55 inWx 3.775 inHWeight: 3.1 oz / 110 g
Analog Input Modes	single ended and differential on companion DAQ (catalog table)
Analog Input Ranges	± 10 V, ± 5 V, ± 2.5 V, ± 1.25 V, 0-10 V, 0-5 V, 0-2.5 V, 0-1.25 V class on companion DAQ table
Cable Kit	C-MOR-KIT
Manufacturer	Diamond Systems
Literature	Diamond Systems Morpheus data sheet (MOR-400 / MOR-650)

MOR400 Specifications

PARAMETER	VALUE
Applications	Embedded process control, medical and instrumentation hosts, mild-climate outdoor ticketing, PC/104 I/O stacks.
Key Features	400 MHz ULV Celeron fanless PC/104 SBC
Watchdog programmable 1 to 127 seconds	5 VDC ±5 percent, 0 C to +60 C
Technical Specifications	Model: MOR-400

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Cable Kit	C-MOR-KIT
Manufacturer	Diamond Systems
Literature	Diamond Systems Morpheus data sheet (MOR-400 / MOR-650) Notes From Diamond Systems Morpheus data sheet (MOR-400 400 MHz fanless 10.5 W row). Analog input range rows on that sheet describe companion DAQ catalog functions, not on-CPU converters; do not invent Morpheus ADC counts.

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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Cable Kit	C-MOR-KIT
Manufacturer	Diamond Systems
Literature	Diamond Systems Morpheus data sheet (MOR-400 / MOR-650)

Notes

From Diamond Systems Morpheus data sheet (MOR-400 400 MHz fanless 10.5 W row). Analog input range rows on that sheet describe companion DAQ catalog functions, not on-CPU converters; do not invent Morpheus ADC counts.

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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<https://aumictechlabs.com>

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Generated August 15, 2026

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