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DIAMOND SYSTEMS CORPORATION

MORPHEUS

400-650 MHZ Ultra-low Voltage Celeron Processor, Multi-I/O, Low Cost



- Low power, high performance Intel ULV Celeron CPUs at 400MHz and 650MHz with up to 512MB RAM
- Full featured, including 10/100 Ethernet, 2 serial, 2USB, keyboard / mouse, floppy, IDE and CompactFlash support
- CRT and flat panel support

DESCRIPTION

Morpheus offers high computing power and highdensity I/O in a compact, low power consumption, and low cost PC/104 module. It is a superior choice for low-cost / high-volume applications in stationary or interior environments with minimal temperaturE swings and limited space, such as medical equipment, process control, and instrumentation, or for outdoor applications in mild climates, such as ticketing and access control systems.

The board utilizes the Intel Ultra-Low Voltage Celeron processor and is available in two speeds: 400MHz / fanless / 10.5 watts and 650MHz / fan / 15 watts. The companion VT8606 / VT686B chipset provides advanced video with 3D and 2D hardware acceleration and support for high-resolution LCD and CRT displays. In addition the Realtek RTL8100BL Ethernet controller provides 10/100Mbps network connectivity with wake-on-LAN capability supported in BIOS. Memory is provided via a user-supplied standard 144-pin PC133 SODIMM up to 512MB.

A full set of I/O ports is provided to support any application's requirements, including Ethernet, UDMA-33 IDE, CompactFlash, floppy, parallel, PS/2 keyboard and mouse, and 2 USB 1.1 ports. The board also has two 16450-compatible serial ports: One port is fixed RS-232, and the second is jumperconfigurable for RS-232, RS-422, and RS-485 protocols. The watchdog timer provides protection from software crashes and is programmable for delays between 1 and 127 seconds.

CPU SPECIFICATIONS

Processor	400MHz or 650MHz Intel ULV Celeron
Memory	Up to 512MB SODIMM
Display	CRT and flat panel
USB	2 USB 1.1
Serial	1 RS-232, 1 RS-232/422/485
Networking	10/100 Ethernet
Mass Storage	IDE, CompactFlash
Keybd / Mouse	PS/2
Dimensions	3.55"W x 3.775"H
Input Power	5VDC±5%
Operating temp	0°C to +60°C
Weight	3.1oz / 110g
Input Modes	single ended, differential
Input ranges	±10V, ±5V, ±2.5V, ±1.25V, 0-10V, 0-5V, 0-2.5V, 0-1.25V, ±10V,

The built-in PC/104 expansion bus enables the Morpheus to work with almost all the data acquisition and communications modules in this catalog, as well as hundreds of I/O boards from other vendors.

ORDERING INFORMATION

Part No.	Description
MOR-400 / MOR-650	Morpheus CPU, 0MB RAM, 400MHz / 650MHz CPU
C-MOR-KIT	Morpheus Cable Kit*

FOR MORE INFORMATION

Diamond Systems Corporation
1255 Terra Bella Avenue
Mountain View, CA 94043
Tel: 650-810-2500
Fax: 650-810-2525
techinfo@diamondsystems.com

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