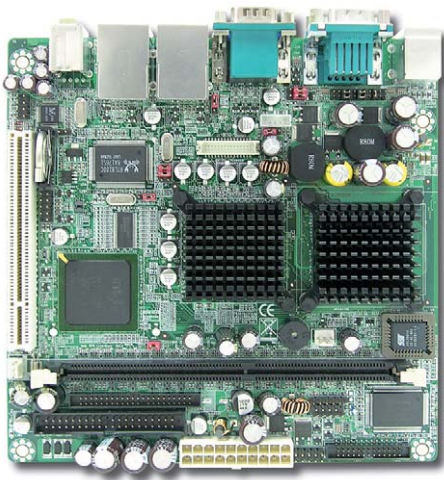# WADE-8041

Cost-effective Ultra Low Voltage Intel® Celeron® M Processor based Mini-ITX Board with Dual Displays, Four COM Ports

FEATURES

- Ultra Low Voltage Intel® Celeron® M processors
- Max. 1GB, DDR2 SDRAM
- Dual Display by VGA/LVDS
- AC97 Audio interface
- Two 10/100Mbps LANs and one PCI slot
- Max. four COM and six USB 2.0 ports

The WADE-8041 is a cost-effective Mini-ITX embedded board for applications that need low power consumption. Built with Ultra Low Voltage Intel® Celeron® M processors, WADE-8041 generates the computing power necessary for most embedded applications. Its dual video feature also enables the use of two displays simultaneously. Its four COM and Six USB ports provide an immediate interface to a range of peripherals.

SYSTEM

CPU	Ultra Low Voltage Intel® Celeron® M 600Mhz(512KB cache) or 1GHz (zero cache) processor
FSB	400 MHz
BIOS	Award BIOS
System Chipset	Intel 82852GM & 82801DB ICH4
System Memory	1 x 184-pin DDR 333/266 DIMM socket supports up to 1 GB
Storage	2 x Ultra DMA133/100/66/33 support four IDE devices by one 40-pin and one 44-pin IDE connector
SSD	1 x CompactFlash Type I/II socket
Watchdog Timer	Reset/IRQx; 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
GPIO	On-board programmable 8-bit Digital I/O interface
Expansion	1 x 32-bit PCI slot

I/O

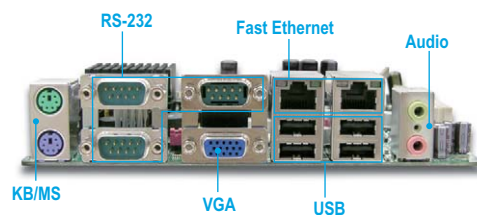|	
MIO	2 x EIDE, 1 x LPT, 4 x RS-232, 1 x K/B, 1 x Mouse
IrDA	IrDA 1.0 compliant
USB	4 x USB 2.0 ports and 2 x USB 2.0 with header
Audio Interface	Mic in, Line out
Ethernet Interface	IEEE 802.3 10/100 BASE-T Ethernet compliant

DISPLAY

Chipset	Intel® 82852GM (MCH)
Display Memory	Integrated Intel® Graphics share system memory to 64 MB
Resolution	CRT mode: 2048 x 1536@85 Hz LCD/Simultaneous mode: 1600 x 1200 (85 Hz)
VGA/LCD Interface	Up to 64 MB of dynamic video memory allocation
LVDS	2x 24-bit

MECHANICAL & ENVIRONMENTAL

Power Requirment	16W (Intel® Celeron® M 1GHz CPU with 256MB system memory in DOS 6.22)
Operating Temperature	0~55°C
Operating Humidity	0%~90% relative humidity, noncondensing
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)
Weight	0.94 lbs (0.43 Kg)

REAR I/O

ORDERING GUIDE

- **WADE-8041-600**
  Intel® Celeron® M 600MHz(512KB cache) Based Mini-ITX Board with VGA, LVDS, Audio, Dual LANS and Six USB 2.0 ports

- **WADE-8041**
  Intel® Celeron® M processors Based Mini-ITX Board with VGA, LVDS, Audio, Dual LANS and Six USB 2.0 ports

- **PEP-581R/582R**
  One/Two slots PCI riser card