

WADE-8141

Cost-effective Intel® ULV Celeron® M Mini-ITX Board with Two Video Outputs, Two LANs and Six USB Ports



Feature

- Intel® Celeron® M processors
- Max. 1GB, DDR2 SDRAM
- Support dual independent displays by VGA/LVDS, VGA/DVI, LVDS/DVI
- AC97 Audio interface
- Two 10/100Mbps LANs and one PCI slot
- Max. four COM and six USB 2.0 ports

The WADE-8141 is a cost-effective Mini-ITX embedded board for applications that need low power consumption. Built with the 1GHz ULV Intel® Celeron® M processor, WADE-8141 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.

Specification

System

CPU	90 nm Intel® ULV Celeron® M 600MHz(512KB cache) or 1GHz (zero cache) processor
FSB	400 MHz
BIOS	Award BIOS with 2Mb Flash ROM
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 1 x CompactFlash Type II Socket 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, 1 x FDD, 4 x RS-232, 1 x K/B, 1 x Mouse
IrDA	115k bps, IrDA 1.0 compliant
USB	4 x USB 2.0 ports and 2 x USB 2.0 with header
Audio Codec	Realtek ALC655 AC97 5.1 CH 3D audio interface
Audio Interface	Mic in, Line out
Ethernet Interface	IEEE 802.3 10/100 BASE-T Ethernet compliant

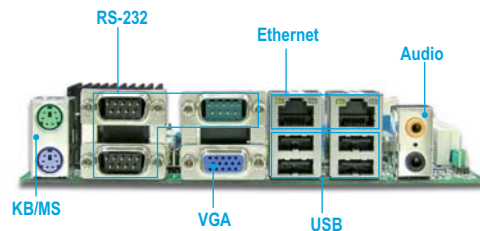
Display

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	Dual channel 24-bit LVDS

Mechanical & Environmental

Power Requirement	16W (Intel® Celeron® M 1GHz CPU with 256MB system memory in DOS 6.22)
Operating Temperature	0~60°C (32~140°F)
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 Information

- **WADE-8141**
Intel® Celeron® M 600MHz(512KB cache) Based Mini-ITX Board with VGA, LVDS, Audio, Dual LANS and Six USB 2.0 ports