



RadiSys Washford

WF815E

PIII PCI SBC

RadiSys WF815E Overview

- **Support Intel® Tualatin (PIII) CPU's**
- **Intel® 815 GMCH + ICH2**
- **Max 512MB SDRAM (one DIMM)**
- **Integrated VGA controller**
- **Analog and LVDS VGA interfaces**
- **Intel 10/100 Ethernet**
- **Four USB ports**
- **System monitoring**
- **Fan speed control**
- **Watchdog timer**



RadiSys WF815E - Feature Summary

● Processor

- 370-pin ZIF PGA socket for Intel Celeron™ and Pentium® III CPUs (Tualatin core only)
- 66MHz, 100MHz and 133MHz FSB operation
- CPU speed control via Stop Clock modulation

● Memory

- 168-pin DIMM socket for PC133
- Maximum 512MB, parity and ECC not supported

● Video

- Integrated 815 video
- Main memory is used for the frame buffer
- Analog VGA output
- LVDS output via National 387R chip

● Ethernet

- Intel ICH2 MAC with Intel 82562ET PHY
- IEEE 802.3 10Base-T & 100Base-TX compatible
- RJ45 connector with two LEDs to indicate line activity, link integrity and line speed

RadiSys WF815E - Feature Summary Continued

● IDE/Floppy

- Two Ultra ATA/100 interfaces
- Supports ATAPI, LS120 and ZIP drives
- USB Floppy disk drives supported

● Card Bracket and I/O Connectors

- VGA 15-way D-type
- PS/2 keyboard and mouse connector (supports external "Y" cable, ports are swappable)
- Two USB 1.1 ports
- Ethernet RJ45 connector

● Internal I/O Headers

- Combo I/O connector with 2* RS-232 ports, 2 USB ports, PS/2 mouse, PS/2 keyboard, reset input, Standby5V input, PS_ON#, HDD LED, power switch and PC Speaker. Connector is same style as 68-pin SCSI-2
- Front panel header with Power & HD LEDs, PC Speaker, Reset, Power Switch, 4 GPIO
- I2C bus on 4-way 2mm header

● Expansion

- 4 bus master 5V PCI 2.2 drives

RadiSys WF815E - Feature Summary Continued

● Power Supply

- 54W (with Celeron 1.2GHz)
- Power input for +5V (+/-5%), +3.3V (+/-5%), +/-12V (+/-10%)
- Support for logic-switched PSUs with Standby5V

● BIOS

- PhoenixBIOS 4.0 Release 6.0
- Boot from Ethernet and USB
- ACPI 1.0, APM 1.2
- Customizable defaults, customer splash logo
- Silent boot, automatic configuration
- Console redirection via RS-232

● Operating System

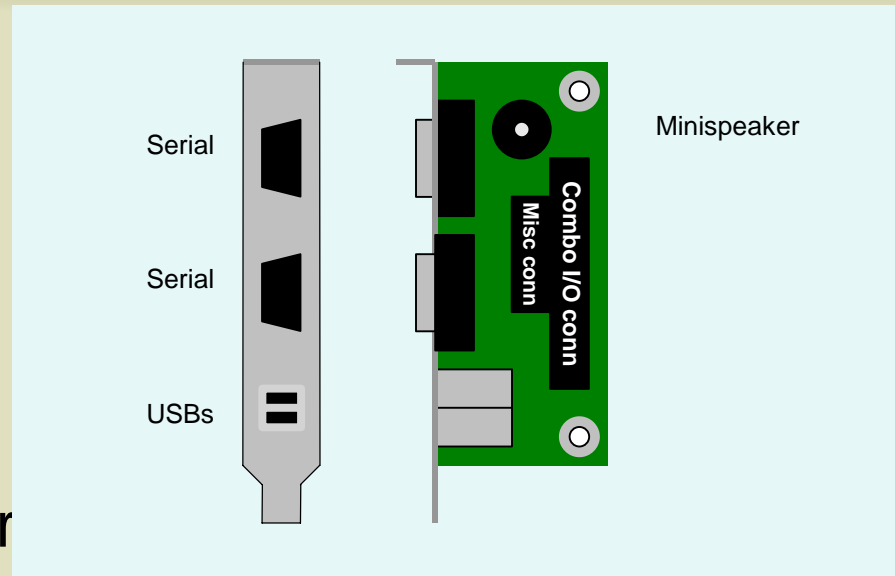
- Windows NT Embedded 4.0, XP Embedded and Linux. Others TBD

● Safety/Environment

- Evaluated in accordance with UL1950, EN60950 and IEC60950
- Operating temperature 0 ° C to 55 ° C (subject to CPU and fansink selection)
- Storage temperature -40 ° C to 85 ° C
- Relative Humidity 5% to 95% non-condensing

RadiSys WF815E - Optional I/O Board

- PCB size 4.00" x 1.75"
- Two serial port connectors
- Dual USB port connectors
- 68-pin connector for SBC cable
- Minispeaker
- Miscellaneous signals connector



Sample Washford Applications

- **ATM**
- **Medical Devices**
- **Military**
- **Industrial Automation**