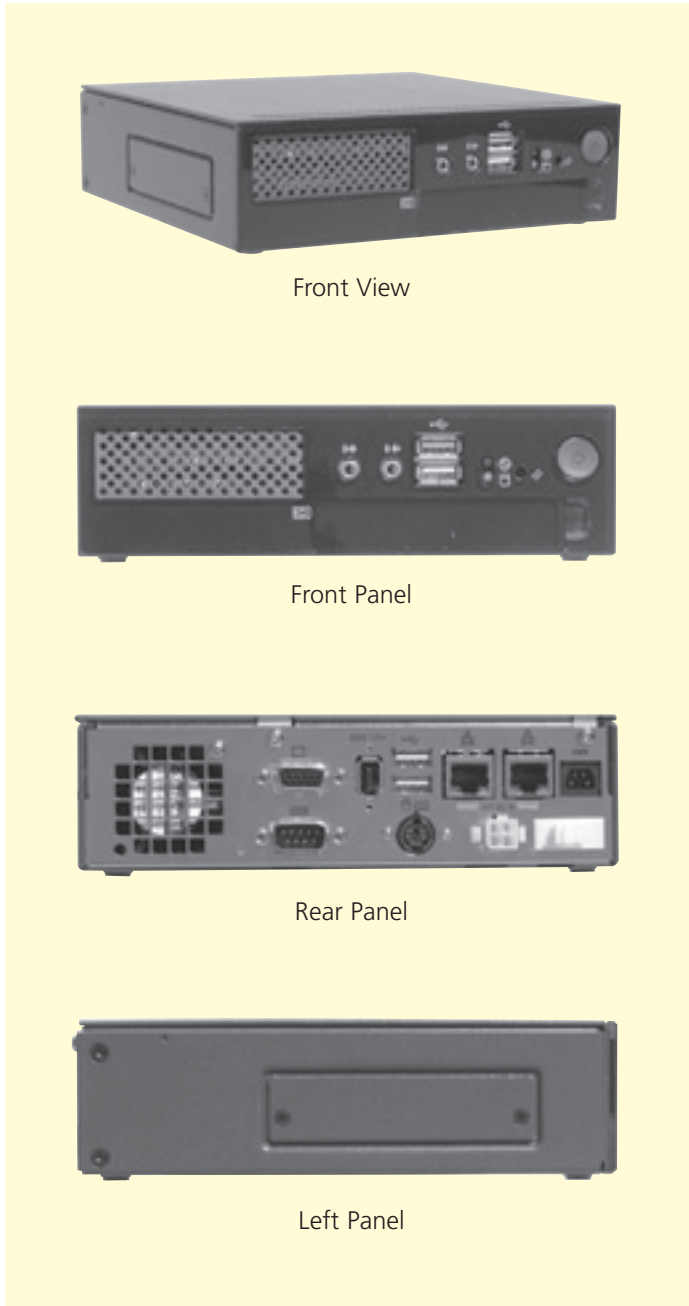


AR2000 Series Embedded Computers



Applications:

- Industrial automation
- Healthcare
- Transportation
- Security
- Retail

Description:

PFU Systems' AR2000 Series Embedded Computers are general-purpose, compact and rugged standard off-the-shelf systems with a small footprint and are ideally suited for low-power, ultra-performance, space-challenged applications.

The AR2100 features a IEEE 1394a port for high-speed imaging devices and peripherals. Four USB 2.0 ports permit I/O expansion and additional high-speed peripherals, with two ports located on the front panel for convenient access. A standard RS-232 serial port provides easy access for control interfaces and communication hardware. Dual CardBus slots allow user-defined I/O expansion. Dual RJ45 10/100 Ethernet interfaces with built-in PXE (Pre-boot Execution Environment) code, permits boot-over-LAN for diskless operation. Integrated high-performance 3D graphics accelerated chipset with MPEG-2 decoding provide for complex graphic applications. The AC '97 audio codec with stereo line-in and line-out jacks provide high-fidelity audio capabilities. The AR2000 series systems are compatible with a variety of operating systems including various versions of Linux®, *BSD and Microsoft® Windows®.

The feature-rich BIOS of this supports MultiBoot III for automatic recovery from a failed boot device and provides legacy USB support. Low power utilization is achieved via multiple interfaces: on-demand throttling, Enhanced Intel® SpeedStep® technology and ACPI power management. Extensive system BIOS setup allows access to unique power management features and optional password protection. Security features may be implemented using Signature™ technology for authentication at the user, application, operating system and BIOS levels.

The AR2000 Series Embedded Computers may be ordered in various configurations of CPU speed, SDRAM memory capacity, hard disk drive size and operating system. Accessories such as IDE CompactFlash storage cards and wireless LAN adapters are also available from PFU Systems. The AR2000 series are available as an ODM product with OEM branding. Special configurations with solid-state hard disk drives, ODM-specific BIOS defaults and power-on screens are also available through PFU Systems ProDeS™ service. Contact your PFU Systems sales representative for further details.

SPECIFICATIONS SUMMARY

FEATURE	SPECIFICATION
CPU & CHIPSET CPU	All Intel® Pentium® M Models include Enhanced Intel® SpeedStep® technology Intel® Pentium® M Processor at 1.6GHz with 1MB L2 cache, 400MHz FSB Intel® Pentium® M Processor at 1.1GHz with 1MB L2 cache, 400MHz FSB
Chipset	Intel® 855GME graphics & memory controller hub, Intel® 82801DB (ICH4) I/O controller hub
Ethernet	Intel® 82801DB integrated MAC with Intel® 82562ET PHY, 10/100Base-T with PXE Intel® 82551QM controller, 10/100Base-T
IEEE 1394a & CardBus Controller	Texas Instruments PCI4520
Audio Codec	Analog Devices AD1885, AC '97
PERIPHERAL I/O	
Keyboard	PS/2 connector
Mouse	PS/2 connector
Serial	1x RS232C on D-Sub 9-pin connector
VGA	15-pin VGA D-Sub connector
Ethernet	1x RJ45 connector, 1x PXE enabled RJ45 connector
USB	4x USB 2.0 type A connectors
FireWire™	1x IEEE 1394a 6-pin connectors
CardBus	2x Type II slots or 1x type III slot
CompactFlash (True IDE)	1x Type II slot, internal
Audio – Stereo Line Out and Line In	2x 3.5mm jacks
Power Switch	Momentary button
Status LED	Power, HDD
IMPORTANT BIOS & OTHER FEATURES	
MultiBoot III	Auto-recovery from a failing boot device
PXE	Boot-over-LAN
USB Boot	USB CD/DVD ROM Devices
USB Legacy Support	USB keyboard & mouse support for legacy operating systems
Power Management	On-demand throttling, Enhanced Intel® SpeedStep® technology, ACPI 2.0
Revision Tracking	Factory and OEM product revision ROM
Security	Signature™ technology for secure computing and piracy prevention
OPERATING CONDITIONS	
Ambient Temperature	5 – 40°C with rotating drives, 0 – 50°C with solid-state drives
Humidity	5 – 90% RH, non-condensing
AC Adapter	20VDC, 5A
Shock	20G
Vibration	0.4G with rotating drives, 2.2G with solid-state drives
MTBF	50,000 Hours
Cooling	Internal fan
PHYSICAL	
Dimensions	178mm x 175mm x 50mm
Weight	1900g (without hard disk drive)
STORAGE	
Ambient Temperature	-20 - 60°C
Humidity	5 - 95% RH, non-condensing
Shock	20G
Vibration	1.0G with rotating drives, 2.2 with solid-state drives
Standard Certifications	CE, CSA, FCC Class B, TUV, VCCI

ORDERING INFORMATION:	
ITEM	PART NO.
AR2000 Embedded Computers	
1.6GHz AR2100	PSAR2100016
1.1GHz AR2100	PSAR2100011
Accessories	
128MB, 256MB, 512MB, 1GB PC2700 DDR SDRAM 200-pin SO-DIMM	PSDN128D333, PSDN256D333, PSDN512D333, PSDN001D333
20GB, 40GB, 60GB 2.5" ATA100 HDD	PS25PHD20A, PS25PHD40A, PS25PHD60A
128MB, 512MB IDE Compact Flash	PS2CF128A, PS2CF1512A
802.11bg PC Card	PSPC80211A
Operating Systems	
Microsoft® Windows® 2000 Professional	PSMSW2KA
Microsoft® Windows® XP Professional	PSMSWXPA
RedHat Linux	PSRHLxx
SuSE Linux	PSSSLxx
FreeBSD	PSFBSDxx

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