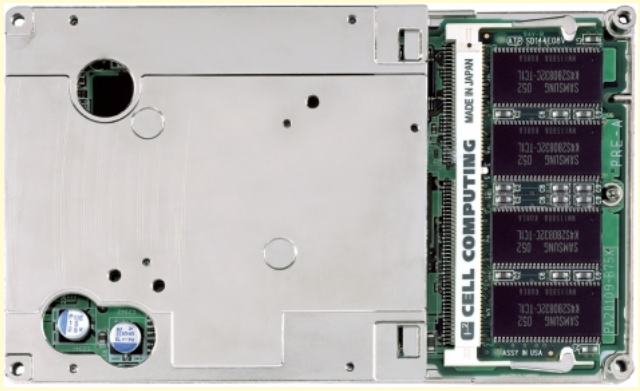
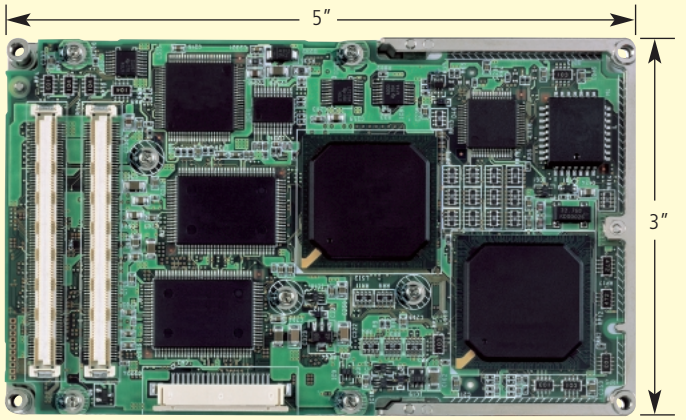
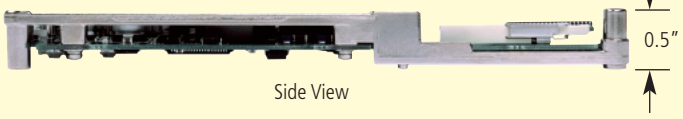
166/266 MHz Ultra-Low Power Server Edition



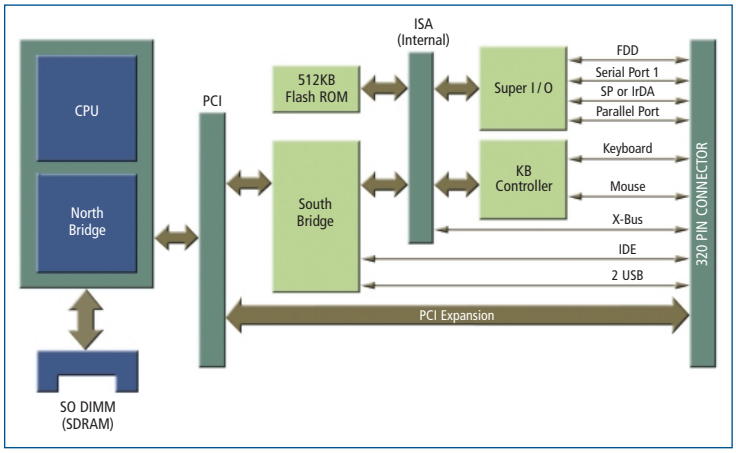
Top View



Bottom View



Side View



Block Diagram

Applications:

- Network appliances
- Security
- Inventory management
- Transportation
- Industrial automation
- Robotics
- Mil/Aerospace
- Avionics

Description:

The 166MHz and 266MHz Plug-N-Run Server Edition modules achieve ultra-low power dissipation through the use of Intel®'s low-power Pentium® Processors with MMX™ Technology. The headless operation and ultra-low power dissipation make the 166MHz and 266MHz Plug-N-Run an excellent choice for a wide variety of power conservative, embedded server and other network appliance applications.

Cell Computing Plug-N-Run Server Edition modules are ultra-compact System-On-Module components, based on the standard PC/AT architecture and built with advanced packaging technology, which integrates all the functions of a PC motherboard. This reduces the design complexity of embedded systems to PCI bus I/O circuit and software design, resulting in fast time to market and lower development cost and risk.

The standardized system board interface connector on the Plug-N-Run Server Edition ensures scalability of processor speeds, and the modularization ensures product longevity. The PCI bus provides designers with a wide variety of I/O components, performance headroom, and a well-balanced I/O and processor system design.

The wide support for operating systems includes embedded real-time as well as non real-time operating systems, such as Windows® NT Embedded, Linux®, and popular real-time operating systems. Cell's Plug-N-Run Server Edition modules include a Phoenix™ BIOS with extensive features for embedded applications. Standard features include thermal throttling for protection against thermal damage, fast hardware boot up, and booting from a wide choice of bootable devices. Optional features include password protected BIOS setup screen access (PPSA), and serial port console redirection (UCR) for BIOS setup via a VT100/ANSI terminal.

PFU™ PFU Systems™

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SPECIFICATIONS SUMMARY

FEATURE	166MHz Plug-N-Run SE	266MHz Plug-N-Run SE
CPU	166MHz low power Pentium MMX	266MHz low power Pentium MMX
L1Cache	16KB code, 16KB write back data	16KB code, 16KB write back data
L2 Cache		512KB
CHIPSET	Intel 430TX	Intel 430TX
POWER		
Power Supply	3.3V, 5V, 5-16V	3.3V, 5V, 5-16V
Dissipation (max)	5.6W	9.4W
OPERATING TEMP		
Ambient (Ta)	0–50°C	0–50°C
Case (Tc)	0–80°C	0–80°C
MEMORY		
SO DIMM	128MB max, SDRAM	128MB max, SDRAM
Flash ROM	512KB	512KB
BUS INTERFACE		
PCI	Rev. 2.1, 3.3V, 32-bit, 33MHz Rev.	2.1, 3.3V, 32-bit, 33MHz
X-Bus	8-bit µ-controller data bus	8-bit µ-controller data bus
PERIPHERAL I/O		
Keyboard/Mouse	PS/2	PS/2
FDD	1.44MB/720KB	1.44MB/720KB
IDE	Single channel Ultra DMA/33	Single channel Ultra DMA/33
Serial Ports	Dual 16550 compatible serial ports	Dual 16550 compatible serial ports
IrDA	SIR (115Kbps), FIR (4Mbps), ASK	SIR (115Kbps), FIR (4Mbps), ASK
Parallel Port	SPP/EPP/ECP (IEEE1248)	SPP/EPP/ECP (IEEE1248)
USB Ports	Dual USB 1.0, UHCI (1.5–12Mbps)	Dual USB 1.0, UHCI (1.5–12Mbps)
PHYSICAL		
Dimensions	3 x 5 x 0.5" (l x w x h)	3 x 5 x 0.5" (l x w x h)
Weight	120g	120g
MTBF	50,000 hours	50,000 hours
ENVIRONMENTAL (non-operational)		
Storage Temperature	-20–65°C (0–90% RH)	-20–65°C (0–90% RH)
Vibration	2.2G	2.2G
Shock	50G	50G

ORDERING INFORMATION

ITEM	PART NO.
Modules	
266MHz Plug-N-Run	C2i-PR5-266S
166MHz Plug-N-Run	C2i-PR5-166S
Memory	32MB-128MB PC100 SDRAM SO DIMM modules
Reference Designs	
NetCARD	C2i-PRNET-BD, C2i-PRNET-KIT, C2i-PRNET-REF
NetCARDII	C2i-PRNETII-BD, C2i-PRNET-KIT, C2i-PRNETII-REF
SlotCARD	C2i-PRSLC-BD, C2i-PRSLC-KIT, C2i-PRSLC-REF
Development Board	C2i-PRDEV-BD

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