Premiere/PCI II
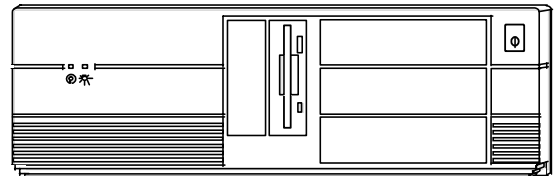
Pentium™Processor-based PCI Expandable Desktop

Pentium ™Processor Power for the Desktop

The Premiere/PCI II combines the computing power of a 90 MHz Pentium processor with the PCI local bus in a platform with maximum performance, expandability and flexibility.

The Premiere/PCI II is based on the high performance Pentium processor at iCOMP™ index 735 \ 90, and is upgradable to future generation OverDrive™ processors. With a highly featured chip set, 256 KB of second level cache, and up to 128 MB of system memory, this expandable desktop has the performance required by today's compute- and graphics-intensive applications.

Features	Benefits
• Optimized for the Pentium processor - 75 \ 90 MHz	• Maximum system performance
• PCI local bus	• Tap into the power of the CPU with high performance PCI add-in cards
• Integrated PCI IDE	• Offers performance competitive with SCSI
• Seven expansion slots	• Complete add-in card flexibility
• Seven peripheral bays and two fans	• Headroom for a full load of peripherals
• CPU upgradable to next generation Pentium OverDrive processor	• Performance upgrades to meet future computing needs and protect the customer's hardware investment.

Premiere/PCI II

PCI Local Bus - Performance and Compatibility for the Future

PCI local bus provides industry-leading performance and compatibility. The 32-bit, 33 MHz pathway to the CPU offers performance unmatched by other local bus architectures.

Backed by over 200 leading PC, add-in card, and chip manufacturers, PCI is clearly defined to ensure complete compatibility. The PCI local bus also provides a roadmap to the future. With provisions for 64-bit data paths and 3.3 volt CPUs, you can feel comfortable basing your solution on the PCI local bus.

Plug N' Play with PCI Auto-configuration

PCI add-in cards feature auto-configurability for easy integration. The user-friendly BIOS automatically allocates system resources for add-in cards and configures hard disks, memory, and other peripherals. No more hassles with setting jumpers or switches. Just plug in the card and go.

Room for Expansion

The Premiere/PCI II supports up to seven add-in devices using two dedicated PCI slots, four dedicated ISA slots and one slot that accepts either an ISA or PCI add-in card. The local bus slots allow high performance expansion for graphics, multimedia, disk controllers, networking and other cards.

The system also offers five external and two internal drive bays to allow easy integration of hard drives, tape drives, CD-ROM, and other peripherals. All power and cooling requirements are met by two fans and a 200 watt power supply.

The performance and expandability of Premiere/PCI II makes it a good choice for emerging multimedia applications, custom configurations, and embedded solutions.

Highly Integrated

The motherboard integrates all I/O functions – two serial ports and one Enhanced Capabilities Parallel port, plus floppy, IDE, and keyboard controllers – leaving all your slots open for add-in cards. An on-board PCI IDE controller provides high performance hard drive access with data transfer rates reaching 8 MB/second and higher.

Intel's High Standards

We understand that OEMs often stretch the limits of PC performance by using a wide variety of peripherals, operating systems, and applications, so our products are thoroughly tested in a wide variety of environments. Furthermore, policies are in place to ensure product stability. For example, we can provide up to 60 days advance notice of engineering changes.

Outstanding Service and Support

IntelTechDirect provides factory direct support to help you get to market faster. The service includes monthly product updates, FaxBack* service, a technical hotline staffed with trained engineers, and a 24-hour electronic bulletin board.

Every Intel system comes with a 12-month warranty and has several options available for extended coverage and service. Intel is committed to exceptional product support, and delivers a wide range of services to meet your needs.

Premiere/PCI II Specifications

PROCESSOR/CACHE

Processors	Pentium processor
	at iCOMP index 735 \ 90 MHz
Performance Upgrade	Pentium OverDrive processors
Cache	Intel 82434LX controller
	256 KB direct mapped, write back
Cooling	Two fans (power supply and chassis front)

SYSTEM MEMORY

Standard Memory	4 72-pin sockets for tin-lead DRAM SIMMs
	8 MB standard with two open sockets
	Burst mode read/write support, 64-bit path
	to memory, fast page DRAM devices only
Memory Size	2 MB minimum (two 1 MB SIMMs)
	128 MB maximum (four 32 MB SIMMs)
SIMM Types	1 Mb, 2 Mb, 4 Mb, 8 Mb
	(Must fill RAM in pairs.)
Access Time	70 ns or faster
Architecture	64-bit interleaved

INTEGRATED I/O

I/O Controller	SMC 37C665 Super I/O controller
Two Serial Ports	Async, RS-232C, 9-pin 16C550 compatible
Parallel Port	Centronics compatible, 25-pin, bidirectional
	Enhanced Capabilities Port
PCI IDE Controller	PC Tech RZ1000
Disk Controller	Type F DMA compatible (ISA)
Floppy Controller	2.88 MB, 765A compatible
Keyboard Controller	Intel 82C42PE
Keyboard Port	AT style
Real Time Clock	Dallas DS12887, 128 bytes CMOS RAM

EXPANSION SLOTS

Description	Four dedicated ISA slots
	Two dedicated PCI slots
	One expansion slot for PCI or ISA
Connector Type	
PCI	120-pin card edge
ISA	98-pin card edge

SYSTEM BIOS

BIOS Type	Flash AMIBIOS
Hard Disk Driver	IDE, auto-configuring, supports IDE DMA
Special Features	PCI add-in card auto-configurable
	ISA Plug and Play

JUMPERS

Flash recovery, Flash WP, password enable, CMOS clear, CPU speed, CMOS setup disable, color/mono

SYSTEM

Height	6.25" (15.94 cm)
Width	17.0" (43.35 cm)
Depth	17.25" (43.99 cm)
Weight	21.4 lbs (9.7 kg), without peripherals
Drive Bays	
External	3 @ 5.25"; 1/2 height (1.6")
	2 @ 3.5"; 1/3 height (1.0")
Internal	2 @ 3.5"; 1/3 height (1.0")

ELECTRICAL

AC Voltage/Frequency	115v/60Hz; 230v/50Hz (switchable)
DC Power Supply	200w
+5V	22.0A maximum continuous
+12V	8.0A maximum continuous
-5V	0.5A maximum continuous
-12V	1.0A maximum continuous

ENVIRONMENT

Ambient Temperature	
Operating	+10°C to +35°C
Non-Operating	-40°C to +70°C ambient
Relative Humidity	
Operating	85% RH @ 35°C
Non-Operating	95% @ 35°C
Altitude	
Operating	to 10,000 feet (3,048 m)
Non-Operating	to 50,000 feet (15,240 m)
Acoustics	40 dB (peripherals idle, at 1 meter)
Static Discharge	25 kv with no component damage

REGULATIONS

Meets or exceeds the following requirements:

Safety		
	U.S.	UL 1950, 1st edition
	Canada	CSA C 22.2 No. 950M-89
	Europe	TUV to EN 60950 with ZHI/618
		Ergonomics IEC950 with IEC 380
EMI/RFI		
	U.S.	FCC CFR 47 Part 15, Level B
	Canada	DOC CRC c, 1374 Class B
	Europe	VDE 0871 Class B, CISPR-B

ORDERING INFORMATION

SP54D90ED8   Premiere/PCI II Expandable Desktop system, 90 MHz Pentium processor, 256 KB write-back cache, 8 MB RAM, floppy.

For more information or the number of your nearest Intel sales office, call 800-628-8686 (good in the U.S. and Canada).