

PLEASE NOTE

This motherboard product is no longer being manufactured by Intel.

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Classic R-Series Platforms

Memory Map / Interrupts / Specs

Memory Map

<i>Address (Decimal)</i>	<i>Address (hex)</i>	<i>Size</i>	<i>Description</i>
16384K-32768K	1000000-2000000	16384K	Extended Memory
16256K-16383K	FE0000-FFFFFF	128K	System & Video BIOS Copy
1024K-16255K	100000-FDFFFF	15232K	Extended Memory
960K-1023K	F0000-FFFFF	64K	Phoenix System BIOS
952K-959K	EE000-EFFFF	8K	FLASH Boot Block (Available as himem)
948K-951K	ED000-EDFFF	4K	User FLASH Area (Available as himem if no user info is here)
928K-947K	E8000-ECFFF	20K	Setup Pgm (disable via setup pre-boot; then avail as himem)
896K-927K	E0000-E7FFF	32K	Cirrus Video BIOS
800K-895K	C8000-DFFFF	96K	Available Hi DOS Memory(open to the ISA bus)
768K-799K	C000-C7FFF	32K	Optional VGA BIOS (enable via setup; if disabled, open to ISA bus)
736K-767K	B8000-BFFFF	32K	VGA Display Memory (not available to ISA bus)
704K-735K	B0000-B7FFF	32K	VGA/Mono Display Mem (HI mem w/ QEMM)(not available to bus)
640K-703K	A0000-AFFFF	64K	VGA Display Memory (not available to the ISA bus)
639K	9FC00-9FFFF	1K	Extended BIOS Data (moveable by QEMM,386MAX)
512K-638K	80000-9FBFF	127K	Extended conventional
0K-511K	00000-7FFFF	512K	Conventional

System Interrupts

<i>IRQ</i>	<i>System Resource</i>
NMI	Parity Error
0	Reserved, Interval Timer
1	Reserved, Keyboard buffer full
2	Reserved, Cascade interrupt from slave PIC
3	On-board Serial Port 2
4	On-board Serial Port 1
5	User available or Parallel port
6	On-board Floppy controller

7	On-board Parallel Port
8	Real Time Clock
9	User available
10	User available
11	User available
12	On-board Mouse Port if enabled, otherwise available to user
13	Reserved, Math coprocessor
14	IDE if enabled
15	User available

Regulatory Standards

<i>Parameter</i>	<i>Condition</i>	<i>Specification</i>
Temperature	Non-Operating	-40°C to +70°C
	Operating	+10°C to +35°C
Humidity	Non-Operating	92% Relative Humidity max. @ 36°C
	Operating, no hard disk	80% Relative Humidity max. @ 36°C
	Packaged Product	92% Relative Humidity max. @ 40°C
Altitude	Non-Operating	50,000 feet (15,240 meters)
	Operating	10,000 feet (3048 meters)
ESD	1.0kV	No Errors
	2.5kV	No Errors
	5.0kV	5% Soft Errors, 0% Hard Errors, No physical damage
	7.5kV	10% Soft Errors, 0% Hard Errors, No physical damage
	10.0kV	25% Soft Errors, 5% Hard Errors, No physical damage
	12.5kV	50% Soft, 10% Hard, No physical damage
	15.0kV	100% Soft, 25% Hard, No physical damage
	25.0kV	100% Soft, 100% Hard, No physical damage
Shock	Non-Operating	30.0G, 11ms, 1/2 sine
Acoustical Noise	1 meter, peripherals idle	Less than 40 dB max.

SAFETY CERTIFICATIONS

Underwriters Laboratories (U.S.A.)	UL1950, 1st Edition 1991	Listed
CSA - (Canada)	CSA C22.2 No.950-M89	Certified
TUV Rheinland of N.A. - (Germany)	EN 60 950-1988 + A1/A2 IEC 950 (2nd Edition 1991)	Certified
NEMKO (Norway; includes SEMKO, Sweden, SETI, & Finland certifications)	EN 60 950-1988 + A1/A2	Certified

EMI CERTIFICATIONS

Federal Communications Commission - (U.S.A.)	CFR47, Pts 2 and 15 Class B	Certified
BZT - (Germany)	CISPR 22, Class B	Reg. to Vfg. 243/1991
Dept. of Communications - (Canada)	CRC c.1374, Class B	Compliant
VCCI - (Japan)	Class 2 I.T.E.	Compliant
VDE (Germany)	VDE 0871 Class B	Tested/Compliant
NEMKO (Norway; includes SEMKO, Sweden, SETI, & Finland certifications)	EN 55 022, Class B	Certified

Reliability Data

This Mean-Time-Between-Failures (MTBF) data is calculated from predicted data @ 35C.

Classic R-Series baseboard (i486 SX/25, 4 MB)	96,511 hours
Power Supply (Astec SA145-3420)	100,000 hours
Floppy drive (Teac FD-235HF-4240)	30,000 hours
Classic R-Series system (i486 SX/25, 4 MB, floppy)	47,072 hours

Physical Specifications

SYSTEM

<i>Height</i>	11.0 cm	4.3" (with feet installed)
<i>Width</i>	43.7 cm	17.2"
<i>Depth</i>	41.1 cm	16.2"
<i>Weight</i>	9.1 kg	20.0 lbs (floppy installed)

BOARD

<i>Length</i>	23.876 cm	9.40"
<i>Width</i>	20.193 cm	7.95"
<i>Height</i>	3.05 cm	1.2" (SIMM installed)

TITLE:	Classic R-Series Memory Map / Interrupts / Specs
INTEL REF:	R_TPS5F.doc
PRODUCT:	Classic R and Classic R-Plus
DATE/VER:	10/12/93, Ver. 2.0
RELATED:	Overview, Board Level Features, System Level Features, User-Installable Upgrades, Jumpers/Connectors
KEYWORDS:	Physical Specs, Reliability, Memory Map, Interrupts, Regulatory Specs