

## Microelectronics' Product List

Product Description	Part Number	Radiation Technology	Package Style			Screening Level	Specification	Status
			FP	DIP	QFP			
<b>Computer Products</b>								
Single Board Computer, PowerPC Based	SCS750	EDAC, RP, RS, RH, TMR	Standard 6u cPCI			S or B Equivalent	Data Sheet	Active
<b>Digital to Analog Converters</b>								
DAC, 8 Bit, Quad, Multiplying	8408	RP	28			S, B, I, E	Data Sheet	Active
DAC, 12 Bit Serial	8143	RP	16			S, B, I, E	Data Sheet	Active
DAC, 12 Bit, Buffered, Multiplying	7545A	RP	20	20		S, B, I, E	Data Sheet	Active
DAC, 14 Bit, 400 MSPS	5675	RP			48	S, B, I, E	Data Sheet	Active
DAC, 16 Bit, Low Power	7846A	RP	28			S, B, I, E	Data Sheet	Active
<b>Analog to Digital Converters</b>								
ADC 8 Bit, 73.5 kSPS	7820	RP		20		S, B, I, E	Data Sheet	Active
ADC, 12 Bit, 100 kSPS	7672	RP	24	24		S, B, I, E	Data Sheet	Active
ADC, 12 Bit, 41 MSPS	9042	RP	28			K, H, I, E	Data Sheet	Active
ADC, 14 Bit, 10 MSPS	9240LP	LPT, RP			44	K, H, I, E	Data Sheet	Active
ADC, 14 Bit, 83 kSPS, Single Supply	7872	RP	16	16		S, B, I, E	Data Sheet	Active
ADC, 16 bit, 100 kSPS, Parallel	7805ALP	LPT, RP	28	28		K, H, I, E	Data Sheet	Active
ADC, 16 bit, 100 kSPS, Serial	7809LP	LPT, RP	24			K, H, I, E	Data Sheet	Active
<b>Low Voltage 3.3V EEPROM (200ns or 250ns Access Time)</b>								
EEPROM, 1 Mb (128kb x 8) .410" Wide	28LV011	RP, RT	32			S, B, I, E	Data Sheet	Active
EEPROM, 1 Mb (128kb x 8) .480" Wide	28LV010	RP, RT	32	32		S, B, I, E	Data Sheet	Active
EEPROM, 4 Mb (512kb x 8)	79LV0408	RP, RT, XP	40			K, H, I, E	Data Sheet	Active
EEPROM, 8 Mb (256kb x 32)	79LV0832	RP, RT			96	K, H, I, E	Data Sheet	Active
EEPROM, 20 Mb (512kb x 40)	79LV2040	RS			100	K, H, I, E	Data Sheet	Active
<b>5.0V EEPROM (120ns, 150ns, or 200ns Access Time)</b>								
EEPROM, 1 Mb (128kb x 8) .480" Wide	28C010T	RP, RT	32	32		V, Q, S, B, E, I	SMD / Data Sheet	Active
EEPROM, 1 Mb (128kb x 8) .410" Wide	28C011T	RP, RT	32			V, Q, S, B, E, I	SMD / Data Sheet	Active
EEPROM, 4 Mb (512kb x 8)	79C0408	RP, RT, XP	40			K, H, I, E	Data Sheet	Active
EEPROM, 8 Mb (256kb x 32)	79C0832	RP, RT			96	K, H, I, E	Data Sheet	Active
EEPROM, 20 Mb (512kb x 40)	79C2040	RS	100			K, H, I, E	Data Sheet	Active
<b>Low Voltage 3.3V SRAM (20ns, 25ns or 30ns Access Time)</b>								
SRAM, 4 Mb (512kb x 8)	32LV408	RP	32			S, B, I, E	Data Sheet	CF
SRAM, 4 Mb (512kb x 8)	33LV408	RP	32			S, B, I, E	Data Sheet	CF
SRAM, 16 Mb (512kb x 32)	89LV1632	RP			68	K, H, I, E	Data Sheet	CF
<b>5.0V SRAM (20ns, 25ns, 30ns, 55ns, or 70ns Access Time)</b>								
SRAM, 1 Mb (128kb x 8)	32C108	RP	32			S, B, I, E	Data Sheet	CF
SRAM, 1 Mb (128kb x 8)	33C108	RP	32			S, B, I, E	Data Sheet	CF
SRAM, 4 Mb (512kb x 8)	32C408	RP	36			S, B, I, E	Data Sheet	CF
SRAM, 4 Mb (512kb x 8)	33C408	RP	32			S, B, I, E	Data Sheet	CF
SRAM, 4 Mb (512kb x 8)	32C408B	RP	36			S, B, I, E	Data Sheet	CF
SRAM, 16 Mb (512kb x 32)	89C1632	RP			68	K, H, I, E	Data Sheet	CF
<b>SDRAM (100MHz Operating Frequency)</b>								
SDRAM, 256 Mb (16Mb x 16)	48SD1616	RP	72			K, H, I, E	Data Sheet	Active
SDRAM, 256 Mb (32Mb x 8)	48SD3208	RP	72			K, H, I, E	Data Sheet	Active
SDRAM, 256 Mb (64Mb x 4)	48SD6404	RP	72			K, H, I, E	Data Sheet	Active
SDRAM, 512 Mb (32Mb x 16)	48SD3216	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 512 Mb (64Mb x 8)	48SD6408	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 512 Mb (128Mb x 4)	48SD12804	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 512 Mb (32Mb x 16)	97SD3216	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 512 Mb (16Mb x 32)	97SD1632	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 768 Mb (48Mb x 16)	48SD4816	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 768 Mb (96Mb x 8)	48SD9608	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 768 Mb (192Mb x 4)	48SD19204	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 768 Mb (32Mb x 24)	97SD3224	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 1.0 Gb (64Mb x 16)	48SD6416	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 1.0 Gb (128Mb x 8)	48SD12808	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 1.0 Gb (256Mb x 4)	48SD25604	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 1.0 Gb (32Mb x 32)	72SD3232	RS	72			K, H, I, E	Data Sheet	Active
SDRAM, 1.0 Gb (64Mb x 16)	97SD6416	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 1.0 Gb (32Mb x 32)	97SD3232	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 1.25 Gb (32 Mb x 40)	97SD3240	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 1.5 Gb (96Mb x 16)	97SD9616	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 1.5 Gb (64Mb x 24)	97SD6424	RS			132	K, H, I, E	Data Sheet	Active

Product Description	Part Number	Radiation Technology	Package Style			Screening Level	Specification	Status
			FP	DIP	QFP			
SDRAM, 1.5 Gb (48Mb x 32)	97SD4832	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 1.5 Gb (32Mb x 48)	97SD3248	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 2.0 Gb (128Mb x 16)	97SD12816	RS			132	K, H, I, E	Data Sheet	Active
SDRAM, 2.0 Gb (64Mb x 32)	97SD6432	RS			132	K, H, I, E	Data Sheet	Active
<b>PROM - OTP EPROM (120ns, 150ns or 200ns Access Time)</b>								
PROM, 256kb (32kb x 8)	27C256T	RP		32		S, B, I, E	Data Sheet	Active
PROM, 512kb (64kb x 8)	27C512T	RP	32	32		S, B, I, E	Data Sheet	Active
PROM, 512kb (32kb x 16)	27C1512T	RP		40		K, H, I, E	Data Sheet	Active
PROM, 1 Mb (128kb x 8)	27C010T	RP	32	32		S, B, I, E	Data Sheet	Active
<b>FLASH</b>								
FLASH, 32 Mb (4Mb x 8)	29F0408	RP	44			S, B, I, E	Data Sheet	Active
FLASH, 128 Mb (16Mb x 8)	69F1608	RP	24			K, H, I, E	Data Sheet	Active
<b>RAM (35ns or 45ns)</b>								
RAM, Dual Port, 8kb x 16	7025E	RP			84	S, B, I, E	Data Sheet	CF
<b>FIFO (15ns, 20ns, 30ns, 40ns, or 50ns Access Time)</b>								
FIFO, 16k x 9	7206F	RP	28	28		S, B, I, E	Data Sheet	CF
<b>Nuclear Event Detector</b>								
Designed In Rad-Hard	HSN-500	RH	14	14		H	Data Sheet	Active
Designed In Rad-Hard w/Event Flag	HSN-1000	RH	14	14		H	Data Sheet	Active
Guaranteed Rad-Hard	HSN-2000	RH	14	14		H	Data Sheet	Active
Guaranteed Rad-Hard w/Event Flag	HSN-3000	RH	14	14		H	Data Sheet	Active
<b>Processor and Peripherals</b>								
Microprocessor, 32 Bit, 25 MHz	80386DX	RP			164	S, B, I, E	Data Sheet	CF
Match Co-Processor	80387	RP			68	S, B, I, E	Data Sheet	CF
<b>Multiplexers</b>								
8 Channel, Fault Protected	358	RP	16			S, B, I, E	Data Sheet	Active
16 Channel	306	RP	28			S, B, I, E	Data Sheet	Active
16 Channel, Fault Protected	338	RP	16			S, B, I, E	Data Sheet	Active
128 Channel, Fault Protected	81840	RH			256	K, H, I, E	Data Sheet	Active
<b>Amplifier and Comparators</b>								
Quad Operation Amplifier, Low Power	124	RP	14			S, B, I, E	Data Sheet	CF
Quad Comparator, Low Offset Voltage	139	RP	14			S, B, I, E	Data Sheet	CF
Comparator, High Speed	903	RP	8			S, B, I, E	Data Sheet	Active
Operation Amplifier, Quad, Rail to Rail	6484	RP	14			S, B, I, E	Data Sheet	Active
Operational Amplifier, Dual	OP220	RP	8			S, B, I, E	Data Sheet	Active
Operational Amplifier, Dual	OP284	RP	8			S, B, I, E	Data Sheet	Active
Operational Amplifier, Quad	OP400	RP	16			S, B, I, E	Data Sheet	Active
Operational Amplifier, Quad, Low Voltage	OP490	RP	16			S, B, I, E	Data Sheet	CF
<b>Logic</b>								
Buffer/Driver, 8 Bit	54BCT244	RP	20			S, B, I, E	Data Sheet	Active
Transceiver, 8 Bit	54BCT245	RP	20			S, B, I, E	Data Sheet	Active
Buffer/Driver, 16 Bit with 3 State Outputs	54LVTH162240	RP	48			S, B, I, E	Data Sheet	Active
Buffer/Driver, 16 Bit, 3.3V	54LVTH162244	RP	48			S, B, I, E	Data Sheet	Active
Transceiver, 16 Bit, 3.3V	54LVTH162245	RP	48			S, B, I, E	Data Sheet	Active
Interface, D-Latch, 16 Bit, 3.3V	54LVTH162373	RP	48			S, B, I, E	Data Sheet	Active
Interface, D-Latch, 16 Bit, 3.3V	54LVTH16373	RP	48			S, B, I, E	Data Sheet	Active
Buffer,/Driver, 8 Bit, 3.3V	54LVTH244A	RP	20			S, B, I, E	Data Sheet	Active
Transceiver, 8 Bit, 3.3V	54LVTH245A	RP	20			S, B, I, E	Data Sheet	Active
Programmable Skew Clock Buffer	7B991	RP	32			S, B, I, E	Data Sheet	Active

#### Radiation Technology Definitions

EDAC = Built In Error Detection and Correction  
LPT = Latch Up Protection Technology  
RH = Rad Hard at the Die Level  
RP = RAD-PAK® Package  
RS = RAD-STAK® Package  
RT = Radiation Tolerant to 10, 25 or 40 krad(Si)  
TMR - Triple Modular Redundancy  
XP = XRAY-PAK™ Package

#### Package Style Definitions

FP = Flat Package  
DIP = Dual In Line Package  
QFP = Quad Flat Package  
  
OTP - One-time programmable  
CF - Contact Factory

#### Screening Level Definitions

V = QML V Per MIL-PRF-38535  
Q = QML Q Per MIL-PRF-38535  
S = Maxwell Class S  
K = Maxwell Class K  
B = Maxwell Class B  
H = Maxwell Class H  
I = Maxwell Class I  
E = Maxwell Class E

Maxwell Technologies is Certified to QML-V, QML-Q, ISO9001 and AS9100

Please Visit <http://www.maxwell.com/microelectronics/products/datasheets.html> for Data Sheets, SMDs and Process Flows