



## Microelectronics Space Product List

PRODUCT DESCRIPTION	Maxwell P/N	RT			RE	RH	PACKAGE STYLE			
		1	2	4			FP	DIP	QFP	LCC
<b>Amplifiers and Comparators</b>										
Quad Operational Amplifier, Low Power (LDA)	124				x		14			
Quad Comparators, Low Offset Voltage (LDA)	139				x		14			
High Speed, Low Power Voltage Comparator	903				x		8			
Quad, Rail-to-Rail Operational Amplifier (LDA)	6484				x		14			
Dual Micropower Operational Amplifier	OP220				x		8			
Operational Amplifier	OP284				x		8			16
Operational Amplifier	OP400				x		16			
Low Voltage Quad Operational Amplifier (LDA)	OP490				x		16			
<b>Computer Board Products</b>										
Single Board Computer, Super Computer for Space	SCS750				x		6u cPCI			
Single Board Computer, MASS	MASS				x		6u VME or 6u cPCI			
Single Board Computer, MASS Intel 486DX2 (PRELIM)	MASS 486				x		6u VME or 6u cPCI			
Single Board Computer, Pentium (PRELIM)	RHPCM				x		6u VME or 6u cPCI			
Single Board Computer, MASS Power PC (PRELIM)	MASS PPC				x		6u VME or 6u cPCI			
<b>Data Conversion</b>										
A/D Converter, 16-bit, 25 KS/s, LPT	5102ALP				x		44			
DAC, 12-bit, Buffered Multiplying, 1us settling time	7545A				x		20	20		
DAC, 8-bit, High Speed (LDA)	7684				x		28			
DAC, 16-bit, Low power	7846A				x		28			
DAC, 12-bit Serial	8143				x		16			
DAC, 8-Bit, Quad Multiplying CMOS with Memory	8408				x		28			
A/D Converter, 12-bit, 100 KS/s (LDA)	7672				x		24	24		
A/D Converter, 16-bit, 100 KS/s, Parallel, LPT	7805ALP				x		28	28		
A/D Converter, 16-bit, 100 KS/s, Serial, LPT	7809LP				x		24			
A/D Converter, 8-bit, 73.5 KS/s (LDA)	7820				x			20		
A/D Converter, 14-bit, 83 KS/s	7872				x		16	16		
A/D Converter, 12-bit 41 MS/s	9042				x		28			
A/D Converter, 14-bit, 10 MS/s, LPT	9240LP				x					44
<b>Logic</b>										
Octal Buffer/Line Driver	54BCT244				x		20			
Octal Buffer/Line Driver, 8-bit (PRELIM)	54BCT244A				x		20			
Octal Transceiver	54BCT245				x		20			
Monostable, Multivibrator, Retriggerable	54HC123				x		16			
Phase-Locked Loop (PRELIM)	54HC4046				x		16			
HEX Inverting Buffers (PRELIM)	54HC4049				x		16			
HEX Non-Inverting Buffers	54HC4050				x		16			
3.3V Octal Driver/Buffer	54LVTH162244				x		48			
3.3V Octal Transceiver	54LVTH162245				x		48			
3.3V Transparent D-Type Latches (PRELIM)	54LVTH162373				x		20	20		
3.3V Transparent d-Type Latches, 16-bit (PRELIM)	54LVT16373				x		48			
3.3V Octal Bus Transceiver, 8-bit (PRELIM)	54LVTH244A				x		20			
3.3V Octal Bus Transceiver, 8-bit (PRELIM)	54LVTH245A				x		20	20		
Programmable Skew Clock Buffer	7B991				x		32			
<b>Memory</b>										
PROM, 512K (32K x 16) (LDA)	27C1512T				x			40		
PROM, 256K (32K X 8) (LDA)	27C256T				x			32		
PROM, 512K (64K X 8) (LDA)	27C512T				x		32	32		
PROM, 1 Meg (128K X 8) (LDA)	27C010T				x		32	32		
EEPROM, 1 Meg (128K X 8)	28C010T	x	x	x	x		32	32		
EEPROM, 1 Meg (128K X 8), Narrow Pkg	28C011T	x	x	x	x		32			
EEPROM, 1 Meg (128K X 8) Low Voltage	28LV010	x	x	x	x		32	32		
EEPROM, 1 Meg (128K X 8) Low Voltage, Narrow Pkg	28LV011	x	x	x	x		32			
EEPROM, 256K (32K X 8)	28C256T	x	x	x	x		28	28		
Flash Memory, 32 Meg (4M X 8)	29F0408				x		44			



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<b>Memory</b>										
SRAM, Low Power 1 Meg (128K X 8) (LDA)	32C108				x		32	32		
SRAM, Low Power 4 Meg (512K X 8) (LDA)	32C408				x		32			
SRAM Fast 4 Meg (512K X 8)	32C408B				x		36			
SRAM, Fast, 1 Meg (128K X 8)	33C108				x		32			
SRAM Fast 4 Meg (512K X 8)	33C408				x		32			
SRAM Fast 4 Meg (512K X 8)	33LV408				x		32			
SDRAM, 256 Meg (16M X 16)	48SD1616				x		68			
SDRAM, 256 Meg (32M X 8)	48SD3208				x		68			
Dual Port RAM, (8K X 16)	7025E				x				84	
FIFO (16K X 9) (Contact Factory)	7206F				x		28	28		
EEPROM, 4 Meg (512K X 8)	79C0408	x	x	x	x		40			
EEPROM, 4 Meg (512K X 8) Low Voltage	79LV0408	x	x	x	x		40			
EEPROM, 8 Meg (256K X 32)	79C0832	x	x	x	x				96	
EEPROM, 8 Meg (256K X 32) Low Voltage	79LV0832	x	x	x	x				96	
SRAM, Fast 16 Meg (512K X 32)	89C1632				x				68	
SDRAM, 1.0 Gigabit (32M x 32) (ADV)	97SD3232				x				132	
SDRAM, 1.28 Gigabit (32M x 40) (ADV)	97SD3240				x				132	
SDRAM, 1.5 Gigabit (32M x 48) (ADV)	97SD3248				x				132	
<b>Microprocessors</b>										
Microprocessor, 32-bit	80386DX				x				164	
<b>Military Parts</b>										
12-Bit Self-Calibrating A/D Converter	5012							40		44
14-Bit Self-Calibrating A/D Converter	5014							40		44
16-Bit Self-Calibrating A/D Converter	5016							40		44
16-Bit, 100 kHz A/D Converter	5101A							28		28
16-Bit, 20 kHz A/D Converter	5102A							28		28
EEPROM, 1 Meg (128K X 8)	28C010T/011T						32			
<b>Nuclear Event Detectors</b>										
Designed-in Rad Hard	HSN-500					x**	14	14		
Designed-in Rad Hard w/ Nuclear Event Flag	HSN-1000					x**	14	14		
Guaranteed Rad Hard	HSN-2000					x**	14	14		
Guaranteed Rad Hard w/ Nuclear Event Flag	HSN-3000					x**	14	14		
<b>Peripherals</b>										
Priority Interrupt Controller	82C59B				x				28	
Programmable Peripheral Interface (ADV)	82C55A				x			40	44	
Math Coprocessor	80387				x				68	
Programmable Interval Timer (ADV)	82C54				x			24	28	
<b>Power Semiconductors</b>										
24-Ch Power MOSFET Switch	24SW				x				176	
<b>Switches &amp; Multiplexers</b>										
8-Ch, Fault Protected, Analog MUX	358				x		16			
16-Ch, CMOS Analog MUX	306				x		28			
128 Channel Multiplexer (PRELIM)	16358				x				256	
128 Channel, Radiation Hardened Multiplexer	81840				x	x			256	

LDA = Limited Die Available - Maxwell purchased end-of-life die from the foundry.  
Contact the factory to insure sufficient die is available for your requirements.

LPT = Latch-up Protected -

RT = Radiation-Tolerant

- Total dose

RT-1 = 10 Krads

RT-2 = 25 Krads

RT-4 = 40 Krads

- Guaranteed latch-up level (bare die specific)

- Guaranteed SEU LET threshold level (bare die specific)

RE = Radiation-Enhanced

- Guaranteed total dose at component level (mission dependent)

- High Latch-Up Threshold

- Guaranteed SEU LET threshold level

- Uses Rad-Pak ® and/or Latchup

Protection Technology™ (LPT™)

RH = Radiation-Hardened

- Total dose > 100 Krads

- Latch-up immune

- Single event upset LET

threshold > 60 MeV/mg/cm2

\*\* Nuclear Event Detector = 1 Mrads