Test Org.*	Device	Function	Technology	Mfr.	Effective SEU LET* Threshold	Device Xsection (cm^2)	Bits Tested	Bit Xsection (cm^2)	Test Date	LUth	LU Xsection (cm^2)	Fac.	Remarks 31-Aug-99
		Miscellaneous Controllers											
	Note: Entries in **RED** indicate data added since the 1997 Compendium.												
ESA	82380	DMA Controller (32-bit)	CHMOSIII, Jersusalem, mask B	INT	11		3552	1.0E-04	May-93	15	3.0E-06	BNL	Microlatchup. H. Van Looy, ESA Rept
ESA	53C90 MARS94 Flight	SCSI Controller	CMOS	NCR	>15				1993	15 to 26		BNL	Harboe-Sorensen, RADECS 93, pg 490. D/C 8923P. LU masked SEU X-section. Cf-252 failed to demonstrate LU.
ARSP	68HC811	Microcontroller(8-bit)	CMOS	MOT	3	3.0E-03				8	8.0E-03	UCB	Koga.
GSFC	82380-16 & -20/B	DMA Controller (32-bit)	CHMOSIII (1.5 µm)	INT	3.4	1.0E-04			May-95	12	1.0E-05	BNL	LaBel, et al, 92IEEE Wrkshp Rec., pg 1. Also Moran, et al, RADECS 95, pg 263
GSFC	82380-16 & -20/B	DMA Controller(32-bit)	CHMOSIII (1.5 µm)	INT	3.4	>1.0E–04				~12	~1.0E-05	BNL	LaBel, et al, 92IEEE Wrkshp Rec., pg 1. Also Moran, RADECS 95, pg 263
SNL	82C527	CAN Controller (8-bit)	CHMOSIII (10 µm epi)	INT	2	5.0E-04	120		1994	17	3.0E-04	BNL	Sexton, et al, 94IEEE Wrkshp Rec., pg 55. No temp dependence.
GD	DDC61553	1553 Bus Controller	Hybrid CMOS	DDC								Cf-252	Latchup. See UTM UT1553.
MMS	DP83932CVF	Network Interface Cont.	M2CMOS (1 µm).	NSC						<15	3.0E-03	GANIL GSI	Poivey et al, 96IEEE Wrkshp Rec., pg 73. D/C 9442. Proton data also.
MMS	DP83950BVQB	Repeater Interface Cont.	M2CMOS (1.5 µm).	NSC						20	2.0E-04	GANIL GSI	Poivey et al, 96IEEE Wrkshp Rec., pg 73. D/C 9506.
MMS	DP83956AVLJ	Repeater Interface Cont.	M2CMOS (1.5 µm).	NSC						20	2.0E-04	GANIL GSI	Poivey et al, 96IEEE Wrkshp Rec., pg 73. D/C 9452. Proton data also.
ARSP	HS82C52	Serial Controller Interface	CMOS	HAR					Dec-91	50	2.0E-05	UCB	
ARSP	HS82C59A	Priority Interrupt Contrlr	lCMOS	HAR					Dec-91	16	2.0E-05	UCB	
ARSP	HS82C88	Bus Controller	CMOS	HAR					Dec-91	55	4.0E-06	UCB	
MMS	MA805	1553 Bus Controller	CMOS	MED						36	6.0E-05	GANIL	Dufour, et al, 92IEEE Wrkshp Rec., pg 21.
ARSP	SH451	SCSI Controller	CMOS	CIR								UCB	Koga. Latchup test only.
MMS	ULA 5N104	ASIC (Bus)	Bipolar	FER	<5.5	2.0E-03				>88		GANIL	Dufour, et al, 92IEEE Wrkshp Rec., pg 21.

Legend

Manufacturers: CIR - Cirrus; DDC - Data Device Corp; FER - Ferranti; HAR - Harris Corp; INT - Intel; MED - Matra Electronic Devices; MOT - Motorola Semiconductor; NCR - National Cash Register

Test Organizations

ARSP - Aerospace Corp., El Segundo, CA
ESA - European Space Agency, Noordwijk, Netherlands
GD - General Dynamics, Azuza, CA
GSFC - Goddard Space Flight Center, Greenbelt, MD
MMS - Matra Marconi Space, France

Radiation Test Facilities

BNL - Tandem Van de Graaff, Brookhaven National Laboratories, Long Island, NY
Cf-252 - Cf-252 Fission Source (various facilities)
GANIL - GANIL Accelerator, France
UCB - 88-inch Cyclotron, University of California, Berkeley, CA