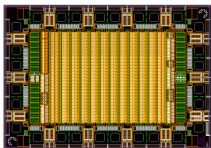
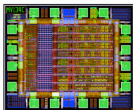
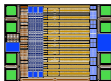
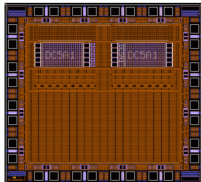


## Feature Overview

	MD100	MD300	MD400	MD500
	 Not recommended for new designs.		 Availability subject to request.	
<b>Technology</b>	2µ SACMOS (S2SC)	1µ SACMOS (C175SCe)	1µ SACMOS (C175SCe)	0.9µ SACMOS (C175SCs)
<b>Process owner</b>	NXP Semiconductors	NXP Semiconductors	NXP Semiconductors	NXP Semiconductors
<b>Fab</b>	TSMC, Taiwan	TSMC, Taiwan	TSMC, Taiwan	TSMC, Taiwan
<b>Available since</b>	1992	2000	2002	2004
<b>Chipsize</b>	1.61 x 2.3 mm, 3.70mm <sup>2</sup>	1.20 x 1.44 mm, 1.73mm <sup>2</sup>	0.90 x 1.20 mm, 1.08mm <sup>2</sup>	2.00 x 2.18 mm, 4.36mm <sup>2</sup>
<b>Max. chips per wafer</b>	4'100	8'800	14'400	3'400
<b>Customizable masks</b>	1 metal	2 metal, 1 contact	2 metal, 2 contact	2 metal, 2 contact
<b>Multiple chip units possible</b>	✓	✓	✓	✓
<b>EPROM</b>	n.a.	32 OTP cells	32 OTP cells	64 OTP cells
<b>VDD core</b>	1.2 .. 6V	1 .. 5.5V	1 .. 5.5V	1 .. 5.5V
<b>VDD periphery</b>	Max. 7V	Max. 9V	Max. 9V	Max. 8V
<b>ESD protection</b>	✓	✓	✓	✓
<b>Digital gates</b>	722 (2-input equivalent)	1168 (2-input equivalent)	1104 (2-input equivalent)	5536 (2-input equivalent)
<b>Analogue transistors</b>	336	807	256	2304
<b>Linear capacitors</b>	40	192	150	524
<b>Resistors</b>	288 x 1k (PS) 96 x 30k (N-well) 25 x 300k (N-well) 10 x 550k (N-well)	384 x 1k (PS) 16 x 2k7(PS) 48 x 55k (N-well) 23 x 275k (N-well)	407k total (PS) 6M5 total (N-well)	2M7 total (PS) 20M5 total (N-well)
<b>I/O-pads</b>	28 (configurable)	16 (configurable)	4 Input + 4 Output	32 (configurable)
<b>Handbook (pdf)</b>	n.a.	v1.0 (2001-08)	n.a.	v1.0 (2004-10)
<b>Design rules (pdf)</b>	n.a.	v1.2 (2001-08)	n.a.	v1.0 (2004-10)
<b>Layout library (pdf)</b>	n.a.	vC2 (2000-02)	n.a.	v1.0 (2004-11)
<b>Array (gds2)</b>	BAS100D1 (1998-06)	BAS300B4 (2005-03)	BAS400B4 (2006-01)	BAS500B2 (2006-03)
<b>Layout library (gds2)</b>	LIB100C1 (1999-04)	LIB300C2 (2005-03)	LIB400B1 (2006-08)	LIB500B2 (2006-03)
<b>Letters for marking (gds2)</b>	LET100A1 (1998-02)	LET300A1 (2000-02)	LET400A2 (2002-08)	LET500A1 (2004-12)