

**Intel Corporation**  
Memory Components Div.  
1900 Prairie City Rd.  
Folsom, CA 95630  
Mail Stop: FM3-83



**SMS Mikrocomputer Systeme GmbH**  
**Im Grund 15**  
**D-88239 Wangen, Germany**

REF: **Intel and SMS Mikrocomputer Systeme GmbH Test Services Agreement dated 05/08/96**

Dear PROM Programmer Vendor:

I am pleased to inform **SMS Mikrocomputer Systeme GmbH** that your PROM programming hardware and software has passed PROM programmer testing by the Memory Components Division (MCD). PROM programmer testing was conducted by MCD under the following test parameters:

<b>PROM PROGRAMMER:</b>	<b>SMS SPRINT OPTIMA</b>
<b>PROGRAMMER SOFTWARE:</b>	<b>OPTIMA Rev A/96</b>
<b>HARDWARE TESTED:</b>	Attached in <b>Table 1</b>

MCD's PROM Programmer testing consists of functional tests of Intel Flash memory products on the specified hardware and software programming platform. MCD tests the functionality of Flash erase, data program, and data read algorithms using multiple data patterns. The results of this PROM programmer testing are contained in the attached **Table 1 PROM Programmer Test Report**

When **SMS Mikrocomputer Systeme GmbH** releases Flash related PROM programmer revisions, please provide these revisions to MCD and we will test these new algorithms. Thank you for your participation in this value added program.

Sincerely yours,

David B. James  
MCD Testing Lab, Manager

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## Table 1

### PROM Programmer Test Report

**Intel Flash memory products that passed PROM programmer testing using SMS Mikrocomputer Systeme GmbH SMS SPRINT OPTIMA Rev A/96 PROM programmer hardware and software:**

PART NUMBER			CIC PART NUMBER	ET PART NUMBER
Fast Flash		NOTES	SOCKET with TOP48	SOCKET with TOP48
1	E28F016XS-85	4.7KΩ RES PINS 39 & 40	56TS-40D-D6-YAM-S	56-40-04TS-6YAM-S
2	DA28F016XS	4.7KΩ RES PINS 39 & 40	56SS-40D-B6-TI	56-40-02SS-6TI
3	E28F016XD-85	4.7KΩ RES PINS 39 & 40	56TS-40D-E6-YAM-S	56-40-05TS-6YAM-S
FlashFile™ Components				
1	DD28F032SA-100	4.7KΩ RES PINS 39 & 40	56TS-40D-C6-YAM-S	56-40-03TS-6YAM-S
2	DA28F016SA-100	4.7KΩ RES PINS 39 & 40	56SS-40D-A6-TI	56-40-01SS-6TI
3	E28F016SA-70	4.7KΩ RES PINS 39 & 40	56TS-40D-C6-YAM-S	56-40-03TS-6YAM-S
4	DA28F016SV	4.7KΩ RES PINS 39 & 40	56SS-40D-A6-TI	56-40-01SS-6TI
5	E28F016SV-70	4.7KΩ RES PINS 39 & 40	56TS-40D-C6-YAM-S	56-40-03TS-6YAM-S
6	E28F008SA-85	4.7KΩ RES PINS 39 & 40	40TS-40D-A6-YAM-S	40-40-01TS-6YAM-S
7	Ei28F008SA-85	4.7KΩ RES PINS 39 & 40	40TS-40D-A6-YAM-S	40-40-01TS-6YAM-S
8	F28F008SA-85	4.7KΩ RES PINS 39 & 40	40TS-40D-A6-YAM-R	40-40-01TS-6YAM-R
9	Fi28F008SA-85	4.7KΩ RES PINS 39 & 40	40TS-40D-A6-YAM-R	40-40-01TS-6YAM-R
10	PA28F008SA	4.7KΩ RES PINS 39 & 40	44PS-40D-A6-YAM	44-40-03S-6YAM
11	E28F008SA-200-L	4.7KΩ RES PINS 39 & 40	40TS-40D-A6-YAM-S	40-40-01TS-6YAM-S
12	F28F008SA-200-L	4.7KΩ RES PINS 39 & 40	40TS-40D-A6-YAM-R	40-40-01TS-6YAM-R
13	PA28F008SA-200-L	4.7KΩ RES PINS 39 & 40	44PS-40D-A6-YAM	44-40-03S-6YAM
Boot Block Components				
		NOTES	SOCKET with TOP48	SOCKET with TOP48
1	E28F400BL-T150	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
2	E28F400BL-B150	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
3	E28F400EX-T60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
4	E28F400EX-B60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
5	E28F200BL-T150	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
6	E28F200BL-B150	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
7	E28F200EX-T60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
8	E28F200EX-B60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
9	PA28F400BL-T150	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
10	PA28F400BL-B150	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
11	PA28F400EX-T60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
12	PA28F400EX-B60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
13	PA28F200BL-T150	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
14	PA28F200BL-B150	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
15	PA28F200EX-T60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
16	PA28F200EX-B60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
17	E28F004BL-T150		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
18	E28F004BL-B150		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
19	E28F004EX-T60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
20	E28F004EX-B60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
21	E28F002BL-T150		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
22	E28F002BL-B150		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
23	E28F002EX-T60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
24	E28F002EX-B60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
25	E28F001EX-T120	P629	32TS-32D-A6-ENP-S	32-32-01TS-YAM-S
26	E28F001EX-T70	P620	32TS-32D-A6-ENP-S	32-32-01TS-YAM-S
27	E28F001EX-B120	P629	32TS-32D-A6-ENP-S	32-32-01TS-YAM-S
28	E28F001EX-B120	P620	32TS-32D-A6-ENP-S	32-32-01TS-YAM-S
29	N28F001EX-T120	P629	32PL-32D-A6-YAM	32-32-01P-6YAM
30	N728F001EX-T120	P620	32PL-32D-A6-YAM	32-32-01P-6YAM
31	N28F001EX-B120	P629	32PL-32D-A6-YAM	32-32-01P-6YAM
32	N728F001EX-B120	P620	32PL-32D-A6-YAM	32-32-01P-6YAM
33	P28F001EX-T120	P629	Dip package	N/A
34	P728F001EX-T120	P620	Dip package	N/A
35	P28F001EX-B120	P629	Dip package	N/A
36	P728F001EX-B120	P620	Dip package	N/A
			CIC PART NUMBER	ET PART NUMBER

SmartVoltage	BootBlock	NOTES	SOCKET	SOCKET
1	E28F400BV-T60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
2	E28F400BV-B60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
3	E28F200BV-T60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
4	E28F200BV-B60	JUMPER TO GROUND	56TS-40D-A6-YAM-S	56-40-01TS-6YAM-S
5	E28F800CV-T	JUMPER TO GROUND	48TS-40D-B6-WEL-S	48-40-02TS-6WEL-S
6	E28F800CV-B	JUMPER TO GROUND	48TS-40D-B6-WEL-S	48-40-02TS-6WEL-S
7	E28F400CV-T60	JUMPER TO GROUND	48TS-40D-B6-WEL-S	48-40-02TS-6WEL-S
8	E28F400CV-B60	JUMPER TO GROUND	48TS-40D-B6-WEL-S	48-40-02TS-6WEL-S
9	E28F200CV-T60	JUMPER TO GROUND	48TS-40D-B6-WEL-S	48-40-02TS-6WEL-S
10	E28F200CV-B60	JUMPER TO GROUND	48TS-40D-B6-WEL-S	48-40-02TS-6WEL-S
11	PA28F800BV-T60	JUMPER TO GROUND	44PS-40D-C6-YAM	44-40-05S-6YAM
12	PA28F800BV-B60	JUMPER TO GROUND	44PS-40D-C6-YAM	44-40-05S-6YAM
13	PA28F400BV-T60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
14	PA28F400BV-B60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
15	PA28F200BV-T60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
16	PA28F200BV-B60	JUMPER TO GROUND	44PS-40D-B6-YAM	44-40-04S-6YAM
17	E28F008BV-T		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
18	E28F008BV-B		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
19	E28F004BV-T60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
20	E28F004BV-B60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
21	E28F002BV-T60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
22	E28F002BV-B60		40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
Bulk Erase Components		NOTES	SOCKET with TOP48	SOCKET with TOP48
1	E28F020-70	P620	32TS-32D-A6-ENP-S	32-32-01TS-YAM-S
2	F28F020-70	P620	32TS-32D-A6-ENP-R	32-32-01TS-YAM-R
3	N28F020-70	P620	32PL-32D-A6-YAM	32-32-01P-6YAM
4	P28F020-70	P620	Dip package	N/A
5	E28F010-120	P629	N/A	N/A
6	F28F010-120	P629	32TS-32D-A6-ENP-S	32-32-01TS-YAM-S
7	N28F010-120	P629	32TS-32D-A6-ENP-R	32-32-01TS-YAM-R
8	P28F010-90	P629	32PL-32D-A6-YAM	32-32-01P-6YAM
9	N28F512-120	P629	Dip package	N/A
10	P28F512-120	P629	N/A	N/A
11	N28F256A-120	P629	32PL-32D-A6-YAM	32-32-01P-6YAM
12	P28F256A-120	P629	Dip package	N/A

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