



PROGRAMMING GUIDE FOR
DIGELEC PROGRAMMER
MODEL 804/5

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How to Use This Guide

1. GENERAL

This programming guide includes all devices supported by DIGELEC programmer models 804/5. Manufacturer names are listed alphabetically; devices under each manufacturer name are listed in ascending numerical order.

Every effort has been made to ensure that this programming guide is as accurate as possible. However, since device manufacturers change specifications, and since DIGELEC continuously improves its programmers performance, the data presented in this guide may unintentionally be erroneous. DIGELEC assumes no responsibility for any damage resulting from the use of the data presented herein. Specifications are subject to change without notice.

2. TERMS

The terms listed and described below appear in the heading of this guide, either in abbreviated or complete format:

<u>Term</u>	<u>Abbreviation (if used)</u>	<u>Description</u>
Manufacturer Name	MFR	Three-letter manufacturer name; if suffixed by M, the device is a microcomputer
Device Number		Device identification number assigned by manufacturer
Intelligent Programming	INT	* indicates a 1 millisecond or shorter programming pulse; IQP indicates a 100 microsecond programming pulse
Device Size		Device structure expressed as number of addresses multiplied by number of bits per address
Pin Out		Number of pins in device
Name		DIGELEC name of programming algorithm used to program the device
Code		Four-digit HEX code used to select the appropriate programming algorithm
Software Revision	SW REV	Earliest programmer revision number that supports the device

<u>Term</u>	<u>Abbreviation (if used)</u>	<u>Description</u>
Hardware Revision	HW REV	Earliest hardware revision number that supports the device
Device Adapter Revision	DA	Earliest DA revision number that supports the device
Programming Voltage	PROG VOLTAGE	VPP voltage used to program EPROM devices (no voltage listed for EEPROMs)

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MFR	DEVICE NUMBER	INT	DEVICE SIZE	PIN OUT	NAME	CODE	SW REV	HW REV	DA	PROG VOLTAGE
ADVANCED MICRO DEVICES										
AMD	AM2708		1024X8	24	TMS2708	0084	1.0	1.0		
AMD	AM27128	*	16384X8	28	I27128	0084	1.0	1.0		21.00
AMD	AM27128A	*	16384X8	28	A27128A	00A5	2.0	1.6		12.50
AMD	AM27128AP	*	16384X8	28	Q27128A	0094	3.3	2.2		12.50
AMD	AM2716		2048X8	24	2716	0000	1.0	1.0		25.00
AMD	AM27168	*	2048X8	24	A27168	0002	3.3	2.2		12.50
AMD	AM27256	*	32768X8	28	A27256	00A8	2.0	1.5		12.50
AMD	AM27256P	*	32768X8	28	Q27256	0098	3.3	2.2		12.50
AMD	AM2732		4096X8	24	2732	0010	1.0	1.0		25.00
AMD	AM2732A		4096X8	24	2732A	0011	1.0	1.0		21.00
AMD	AM2732B	*	4096X8	24	A2732B	0012	3.3	2.2		12.50
AMD	AM27512	*	65536X8	28	A27512	00AC	2.0	1.6		12.50
AMD	AM2764	*	8192X8	28	I2764	0080	1.0	1.0		21.00
AMD	AM2764A	*	8192X8	28	A2764A	00A1	2.0	1.6		12.50
AMD	AM2764AP	*	8192X8	28	Q2764A	0090	3.3	2.2		12.75
AMD	AM27C1024	*	65536X16	40	A27C1024	2048	4.12	1.7	8048	12.50
AMD	AM27C256	*	32768X8	28	A27C256	00A9	4.12	2.2		12.50
AMD	AM27C512	*	65536X8	28	A27C512	00AD	4.12	2.2		12.50
AMD	AM2817A		2048X8	28	I2817A	0162	2.2	1.6	8046	
AMD	AM2864A		8192X8	28	X2864	0182	2.32	1.5	8046	
AMD	AM2864B		8192X8	28	I2864	0180	2.32	1.5	8046	
AMD	AM28C256		32768X8	28	X28256	0192	3.3	2.2	8046	
AMD	AM9708		1024X8	24	TMS2708	0084	1.0	1.0		25.00
AMD	AM9716		2048X8	24	2716	0000	1.0	1.0		25.00
AMD	AM9764		8192X8	28	I2764	0080	1.0	1.0		21.00
AMD	AM9864-2		8192X8	28	I2864	0180	2.2	1.6	8046	
AMD	AM9864-3		8192X8	28	I2864	0180	2.2	1.5	8046	
AMD	AM8751H	*	4096X8	40	8751H	1551	1.5	1.5	8043	21.00
AMD	AM9761H	*	8192X8	40	A9761H	1561	2.3	1.6	8043	21.00
AMD	AM8753H	*	8192X8	40	A9761H	1561	2.3	1.6	8043	21.00
ATMEL										
ATM	AT27C256	*	32768X8	28	I27C256	00C9	3.3	2.2		12.50
ATM	AT27C512	*	65536X8	28	I27C512	00CC	3.3	2.2		12.50
ATM	AT27C513	*	65536X8	28	I27C513	00CF	3.3	2.2		12.50
ATM	AT27C515	*	65536X8	28	I27C515	00CE	3.3	2.2		21.00
ATM	AT28HC64		8192X8	28	X2864	0182	3.3	2.2	8046	
ATM	AT28C256		32768X8	28	X28256	0192	3.3	2.2	8046	
ATM	AT28HC256		32768X8	28	X28256	0192	3.3	2.2	8046	
CATALYST										
CAT	CAT27HC256	*	32768X8	28	Q27C256	0099	4.12	2.2		12.50
EURO TECHNIQUE										
EUT	ET2716		2048X8	24	2716	0000	1.0	1.0		25.00
EUT	ET2732		4096X8	24	2732	0010	1.0	1.0		25.00
EUT	ET2764	*	8192X8	28	I2764	0080	1.0	1.0		21.00
EUT	ET27C16		2048X8	24	27C16	0040	1.0	1.0		25.00
EXEL										
EXL	XL2804A		512X8	24	X2804A	0158	3.3	2.2	8046	
EXL	XL2816A		2048X8	24	X2816A	0143	2.2	1.6	8046	

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MFR	DEVICE NUMBER	INT	DEVICE SIZE	PIN OUT	NAME	CODE	SW REV	HW REV	DA	PROG VOLTAGE
CONT'D										
EXL	XL2817A		2048X8	28	I2817A	0162	3.2	1.6	8046	
EXL	XL2864A		8192X8	28	X2864	0182	2.2	1.6	8046	
EXL	XL2865A		8192X8	28	I2864	0180	2.2	1.6	8046	
EXL	XL46C15/16		2048X8	24	XL46C1601C0		2.3	1.6		
EXL	XL46C32		4096X8	24	XL46C3201C4		2.3	1.6		
FUJITSU										
FUJ	MBM2708		1024X8	24	TMS2708	0084	1.0	1.0		
FUJ	MBM8518		1024X8	24	TMS2708	0084	1.0	1.0		
FUJ	MBM27128	*	16384X8	28	27128	0084	1.0	1.0		21.00
FUJ	MBM2716		2048X8	24	2716	0000	1.0	1.0		25.00
FUJ	MBM2716H		2048X8	24	2716	0000	1.0	1.0		25.00
FUJ	MBM2716/851		2048X8	24	2716	0000	1.0	1.0		25.00
FUJ	MBM27256	*	32768X8	28	I27256	0088	1.0	1.0		12.50
FUJ	MBM2732		4096X8	24	2732	0010	1.0	1.0		25.00
FUJ	MBM2732A		4096X8	24	2732A	0011	1.0	1.0		21.00
FUJ	MBM2764	*	8192X8	28	I2764	0080	1.0	1.0		21.00
FUJ	MBM27C1000	*	131072X8	32	F27C1000	2034	3.2	1.7	8047	12.50
FUJ	MBM27C1001	*	131072X8	32	F27C1001	2024	3.2	1.7	8047	12.50
FUJ	MBM27C1024	*	65536X16	40	F27C1024	2043	3.3	2.2	8048	12.50
FUJ	MBM27C128	*	16384X8	28	27C128	00C4	2.2	1.6		21.00
FUJ	MBM27C128		16384X8	28	I27128	00B4	1.0	1.0		21.00
FUJ	MBM27C256	*	32768X8	28	N27C256	00C8	1.6	1.4		21.00
FUJ	MBM27C256A	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
FUJ	MBM27C256H	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
FUJ	MBM27C32		4096X8	24	27C32	0044	1.0	1.0		25.00
FUJ	MBM27C32A		4096X8	24	27C32A	0046	1.0	1.0		21.00
FUJ	MBM27C512	*	65536X8	28	27C512	00CC	2.2	1.6		12.50
FUJ	MBM27512	*	65536X8	28	I27512	00BC	3.3	2.2		12.50
FUJ	MBM27C512	*	65536X8	28	I27512	00BC	3.3	2.2		12.50
FUJ	MBM27C64	*	8192X8	28	N27C64	00C0	1.0	1.0		21.00
FUJ	MBM28C64	*	8192X8	28	X2864	0182	2.2	1.6	8046	
FUJ	MBM28C65		8192X8	28	I2864	0180	2.2	1.6	8046	
FUJM	8742H		2048X8	40	8742	1542	1.6	1.4	8045	18.00
FUJM	8742N		2048X8	40	8742	1542	1.6	1.4	8045	18.00
FUJM	8749H		2048X8	40	8749H	1549	1.6	1.4	8045	12.50
FUJM	8749N		2048X8	40	8749H	1549	1.6	1.4	8045	12.50
GENERAL INSTRUMENTS										
GI	27256	*	32768X8	28	I27256	0088	1.0	1.0		12.50
GI	27C128	*	16384X8	28	I27C128	00C5	3.3	2.2		12.50
GI	27C256	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
GI	27C512		65536X8	28	I27C512	00CC	2.2	1.6		12.50
GI	27C512		65536X8	28	Q27C512	0090	3.3	2.2		12.50
GI	27C64		8192X8	28	I27C64	00C1	2.2	1.6		12.50
GI	27HC64		8192X8	28	I27C64	00C1	2.2	1.6		12.50
GI	28C64A		8192X8	28	I2864	0180	3.3	2.2	8046	
GI	28C64AX		8192X8	28	X2864	0182	3.3	2.2	8046	
GI	5816		2048X8	24	I2816	0141	1.5	1.4	8041	21.00

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MFR	DEVICE NUMBER	INT	DEVICE SIZE	PIN OUT	NAME	CODE	SW REV	HW REV	DA	PROG VOLTAGE
HITACHI										
HIT	HN27128A	*	16384X8	28	I27128A	0085	3.3	2.2		12.50
HIT	HN27256	*	32768X8	28	I27256	0088	1.0	1.0		12.50
HIT	HN27512G		65536X8	28	I27512	008C	2.0	1.6		12.50
HIT	HN27C101	*	131072X8	32	I27C1001	2020	3.2	1.7	8047	12.50
HIT	HN27C103	*	131072X8	32	I27C1000	2030	3.2	1.7	8047	12.50
HIT	HN27C256	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
HIT	HN27C256H	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
HIT	HN27C256A	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
HIT	HN27C64	*	8192X8	28	N27C64	00C0	1.0	1.0		21.00
HIT	HN462532		4096X8	24	2532	0070	1.0	1.0		25.00
HIT	HN462716		2048X8	24	2716	0000	1.0	1.0		25.00
HIT	HN462732		4096X8	24	2732	0010	1.0	1.0		25.00
HIT	HN462732P		4096X8	24	2732	0010	1.0	1.0		25.00
HIT	HN48016P		2048X8	24	HN48016	0120	1.0	1.0		21.00
HIT	HN4827128/P	*	16384X8	28	I27128	0084	1.0	1.0		21.00
HIT	HN4827256	*	32768X8	28	I27256	0088	1.0	1.0		12.50
HIT	HN482732		4096X8	24	2732	0010	1.0	1.0		25.00
HIT	HN482732A		4096X8	24	2732A	0011	1.0	1.0		21.00
HIT	HN482764/P	*	8192X8	28	I2764	0080	1.0	1.0		21.00
HIT	HN4827C256	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
HIT	HN58064		8192X8	28	HN58064	0189	2.2	1.6	8046	
HIT	HN58C65		8192X8	28	I2864	0180	3.3	2.2	8046	
HYUNDAI										
HYU	HY27C64		8192X8	28	I27C64	00C1	3.2	2.2		12.50
INTEL										
INT	27010	IQP	131072X8	32	Q27C1001	2000	3.2	1.7	8047	12.75
INT	27011	IQP	131072X8	28	Q27011	2080	3.2	1.7		12.75
INT	2704		512X8	24	TMS2704	0080	1.0	1.0		
INT	2708		1024X8	24	TMS2708	0084	1.0	1.0		
INT	27128	*	16384X8	28	I27128	0084	1.0	1.0		21.00
INT	27128A/B	*	16384X8	28	I27128A	0085	1.5	1.4		12.50
INT	2716		2048X8	24	2716	0000	1.0	1.0		25.00
INT	27210	IQP	65536X16	40	Q27C1024	2040	3.2	1.7	8048	12.75
INT	27256	*	32768X8	28	I27256	0088	1.0	1.0		12.50
INT	2732		4096X8	24	2732	0010	1.0	1.0		25.00
INT	2732A		4096X8	24	2732A	0011	1.0	1.0		21.00
INT	27512	*	65536X8	28	I27512	008C	2.0	1.6		12.50
INT	27513	*	65536X8	28	I27513	008F	2.2	1.6		12.50
INT	2758		1024X8	24	2758	0020	1.0	1.0		
INT	2764	*	8192X8	28	I2764	0080	1.0	1.0		21.00
INT	2764A	*	8192X8	28	I2764A	0081	1.5	1.4		12.50
INT	27C010		131072X8	32	Q27C1001	2000	4.12	2.2		12.75
INT	27C128	IQP	16384X8	28	Q27C128	0095	3.3	2.2		12.75
INT	27C256	*	32768X8	28	I27C256	00C9	2.3	1.6		12.50
INT	27C64	*	8192X8	28	I27C64	00C1	2.2	1.4		12.50
INT	27C64	IQP	8192X8	28	Q27C64	0091	3.2	1.7		12.75
INT	2815		2048X8	24	I2815	0140	1.5	1.4	8041	21.00
INT	2816		2048X8	24	I2816	0141	1.5	1.4	8041	21.00
INT	2816A		2048X8	24	I2816A	0143	2.2	1.6	8046	
INT	2816A		2048X8	24	I2816	0141	1.5	1.4	8041	21.00



PROM & LOGIC PROGRAMMERS

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MFR	DEVICE NUMBER	INT	DEVICE SIZE	PIN OUT	NAME	CODE	SW REV	HW REV	DA	PROG VOLTAGE
CONT'D										
INT	2816B		2048X8	24	X2816A	0143	2.2	1.6	8046	
INT	2816B-1/2/3		2048X8	24	X2816A	0143	2.2	1.6	8046	
INT	2816B-25		2048X8	24	X2816A	0143	2.2	1.6	8046	
INT	2817		2048X8	28	I2817	0160	1.5	1.4	8046	
INT	2817A		2048X8	28	I2817A	0162	2.2	1.6	8046	
INT	2817A-1		2048X8	28	I2817A	0162	2.2	1.6	8046	
INT	2817A-4		2048X8	28	I2817A	0162	2.2	1.6	8046	
INT	2864A		8192X8	28	X2864	0182	2.2	1.6	8046	
INT	2864B		8192X8	28	I2864	0180	3.3	2.2	8046	
INT	68C257		32768X8	28	Q68C257	0008	4.12	2.2		
INT	8704		256X8	24	TMS2704	0080	1.0	1.0		
INT	8708		1024X8	24	TMS2708	0084	1.0	1.0		
INTM	8741		1024X8	40	8741A	1541	1.6	1.4	8045	23.00
INTM	8741A		1024X8	40	8741A	1541	1.6	1.4	8045	23.00
INTM	8741AH		1024X8	40	8741AH	1531	3.3	2.2	8045	
INTM	8742		2048X8	40	8742	1542	1.6	1.4	8045	18.00
INTM	8742AH		2048X8	40	8742AH	1532	3.3	2.2		12.50
INTM	8744		4096X8	40	8751	1550	1.5	1.4	8043	21.00
INTM	8744H		4096X8	40	8751	1550	1.5	1.4	8043	21.00
INTM	8748		1024X8	40	8748	1548	1.5	1.4	8045	18.00
INTM	8748H		1024X8	40	8748H	1547	2.0	1.6	8045	18.00
INTM	8749H		2048X8	40	8749H	1549	1.6	1.4	8045	21.00
INTM	8751		4096X8	40	8751	1550	1.5	1.4	8043	21.00
INTM	8751BH		4096X8	40	8751BH	1553	3.3	2.2	8043	12.75
INTM	8751H		4096X8	40	8751H	1551	1.5	1.4	8043	21.00
INTM	8752BH	*	8192X8	40	8752BH	1552	3.3	2.2	8043	12.75
INTM	8755A		2048X8	40	8755A	1555	1.5	1.4	8042	25.00
INTM	87C252	*	8192X8	40	8752BH	1552	3.3	2.2	8043	12.75
INT	87C256	IQP	32768X8	28	Q87C256	009A	3.2	1.7		12.75
INT	87C257		32768X8	28	Q87C257	009B	3.3	2.2		12.75
INTM	87C51	*	4096X8	40	8751BH	1553	3.3	2.2	8043	12.75
INT	87C64	*	8192X8	28	I87C64	00C2	2.2	1.6		12.50
INT	87C64	IQP	8192X8	28	Q87C64	0092	3.2	1.7		12.75
INT	87C64	*	8192X8	28	I87C64	00C2	2.2	1.6		12.50
INT	N27128A	IQP	16384X8	28	Q27128A	009A	3.2	1.7		12.75
INT	N27C256	IQP	32768X8	28	Q27C256	0099	3.2	1.7		12.75
INT	N27C64	IQP	8192X8	28	Q27C64	0091	3.2	1.7		12.75
INT	N87C256	IQP	32768X8	28	Q87C256	009A	3.2	1.7		12.75
INT	P27010	IQP	131072X8	32	Q27C1001	2000	3.2	1.7	8047	12.75
INT	P27011	IQP	131072X8	28	Q27011	2080	3.2	1.7		12.75
INT	P27128A	IQP	16384X8	28	Q27128A	009A	3.2	1.7		12.75
INT	P27210		65536X16	40	Q27C1024	2040	3.3	2.2	8048	12.75
INT	P27256	IQP	32768X8	28	Q27256	0098	3.2	1.7		12.75
INT	P27512	IQP	32768X8	28	Q27512	009C	3.2	1.7		12.50
INT	P27513	IQP	65536X8	28	Q27513	009F	3.2	1.7		12.50
INT	P2764	*	8192X8	28	I2764	0080	1.0	1.0		21.00
INT	P2764A	IQP	8192X8	28	Q2764A	0090	3.2	1.7		12.75
INT	P2764A	*	8192X8	28	I2764A	0081	1.5	1.4		12.50
INT	P27C128	IQP	16384X8	28	Q27C128	0095	3.3	2.2		12.75
INT	P27C256	IQP	32768X8	28	Q87C256	009A	3.2	1.7		12.50
INT	P27C64	IQP	8192X8	28	Q27C64	0091	3.2	1.7		12.75
INT	P2864A		8192X8	28	I2864	0180	2.2	1.6	8046	

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CONT'D										
INT	P87C256	IQP	32768X8	28	Q87C256	009A	2.3	1.7		12.75
INT	P87C257		32768X8	28	Q87C257	009B	3.3	2.2		12.75
INT	P87C64	IQP	8192X8	28	Q87C64	0092	3.2	1.7		12.75
LATTICE										
LAT	EE64K8		8192X8	28	I2864	0180	2.2	1.6	8046	
MITSUBISHI										
MIT	MSL2708		1024X8	24	TMS2708	0084	1.0	1.0		
MIT	MSL27128K	*	16384X8	28	I27128	0084	1.0	1.0		21.00
MIT	MSL2716K		2048X8	24	2716	0000	1.0	1.0		25.00
MIT	MSL27256K	*	32768X8	28	I27256	0088	1.0	1.0		12.50
MIT	MSL2732K		4096X8	24	2732	0010	1.0	1.0		25.00
MIT	MSL27512	*	65536X8	28	I27512	008C	2.0	1.6		12.50
MIT	MSL2764K	*	8192X8	28	I2764	0080	1.0	1.0		21.00
MITM	MSL8748S		1024X8	40	8748H	1547	1.6	1.4	8045	18.00
MIT	MSM27C102K		65536X16	40	F27C1024	2043	3.2	1.7	8048	12.50
MIT	MSM27C128K		16384X8	28	N27C128	00C4	2.2	1.6		21.00
MIT	MSM27C256K		32768X8	28	I27C256	00C9	2.3	1.6		12.50
MOSTEK										
MOS	MK2708		1024X8	24	TMS2708	0084	1.0	1.0		
MOS	MK2716		2048X8	24	2716	0000	1.0	1.0		25.00
MOS	MK2764	*	4096X8	24	I2764	0080	1.0	1.0		21.00
MOTOROLA										
MOT	MCM2532		4096X8	24	2532	0070	1.0	1.0		25.00
MOT	MCM25A32		4096X8	24	2532	0070	1.0	1.0		25.00
MOT	MCM2708		1024X8	24	TMS2708	0084	1.0	1.0		
MOT	MCM2716		2048X8	24	2716	0000	1.0	1.0		25.00
MOT	MCM27A08C		1024X8	24	TMS2708	0084	1.0	1.0		
MOT	MCM27A16		2048X8	24	2716	0000	1.0	1.0		25.00
MOT	MCM68708		1024X8	24	TMS2708	0084	1.0	1.0		
MOT	MCM68732-0		4096X8	24	MCM68732	0050	1.0	1.0		
MOT	MCM68732-1		4096X8	24	MCM68764	0054	1.0	1.0		
MOT	MCM68764		8192X8	24	MCM68764	0054	1.0	1.0		25.00
MOT	MCM68A708		1024X8	24	TMS2708	0084	1.0	1.0		
MOT	TMS2716		2048X8	24	TMS2716	0088	1.0	1.0		
MOT	TMS27A16		2048X8	24	TMS2716	0088	1.0	1.0		
NATIONAL SEMICONDUCTOR										
NSC	MM2704		512X8	24	TMS2704	0080	1.0	1.0		
NSC	MM2708		1024X8	24	TMS2708	0084	1.0	1.0		
NSC	MM2716		2048X8	24	2716	0000	1.0	1.0		25.00
NSC	MM2758-A		1024X8	24	2758	0020	1.0	1.0		
NSC	MM2758-B		1024X8	24	2716	0000	1.0	1.0		
NSC	NMC2532		4096X8	24	2532	0070	1.0	1.0		25.00
NSC	NMC2564		8192X8	28	TMS2564	0074	1.0	1.0		25.00
NSC	NMC2732		4096X8	24	2732	0010	1.0	1.0		25.00
NSC	NMC27C020		262144X8	32	Q27C2001	2100	4.12	2.2	8047	11.50
NSC	NMC27C1024		65536X16	40	A27C1024	2048	3.3	2.2	8048	11.50
NSC	NMC27C16		2048X8	24	27C16	0040	1.0	1.0		25.00

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CONT'D										
NSC	NMC27C16H		2048X8	24	27C16H	0041	2.0	1.5		25.00
NSC	NMC27C2048		131072X16	40	Q27C2048	2140	4.12	2.2	8048	11.50
NSC	NMC27C256	*	32768X8	28	L27C256	0008	4.12	1.6		12.50
NSC	NMC27C32		4096X8	24	27C32	0044	1.0	1.0		25.00
NSC	NMC27C32B		4096X8	24	Q27C32B	0049	4.12	2.2		
NSC	NMC27C32H		4096X8	24	27C32H	0045	2.0	1.6		25.00
NSC	NMC27C512	*	65536X8	28	L27C512	000C	4.12	2.2		12.50
NSC	NMC27C64		8192X8	28	I27C64	00C1	2.2	1.6		12.50
NSC	NMC2816		2048X8	24	I2816	0141	1.5	1.4	8041	21.00
NSC	NMC9716		2048X8	24	I2816	0141	1.5	1.4	8041	21.00
NSC	NMC9716M		2048X8	24	2716	0000	1.0	1.0		25.00
NSC	NMC9816A		2048X8	24	X2816A	0143	3.3	2.2	8046	21.00
NSC	NMC9817/A		2048X8	28	I2817A	0162	2.2	1.6	8046	
NSC	NMC98C64		8192X8	28	I2864	180	3.3	2.2	8046	
NIPPON ELECTRIC										
NEC	UPD271280/C	*	16384X8	28	I27128	0084	1.0	1.0		21.00
NEC	UPD271280/C		16384X8	28	27128	0034	1.0	1.0		21.00
NEC	UPD2716D		2048X8	24	2716	0000	1.0	1.0		25.00
NEC	UPD27256A	*	32768X8	28	I27256	0088	1.0	1.0		12.50
NEC	UPD27256D	*	32768X8	28	N27256	0089	2.2	1.6		21.00
NEC	UPD2732A		4096X8	24	2732A	0011	1.0	1.0		21.00
NEC	UPD2732D		4096X8	24	2732	0010	1.0	1.0		25.00
NEC	UPD27640/C	*	8192X8	28	I2764	0080	1.0	1.0		21.00
NEC	UPD27640/C		8192X8	28	2764	0030	1.0	1.0		21.00
NEC	UPD27C1000D	*	131072X8	32	N27C1000	2014	3.3	2.2	8047	12.50
NEC	UPD27C1001D		131072X8	32	N27C1001	2004	3.3	2.2	8047	12.50
NEC	UPD27C1024D	*	65536X16	40	N27C1024	2044	3.3	2.2	8048	12.50
NEC	UPD27C128A0	*	16384X8	28	I27C128	00C5	2.3	1.6		12.50
NEC	UPD27C2001		262144X8	32	N27C2001	2104	4.12	2.2	8047	12.50
NEC	UPD27C256A	*	32768X8	28	I27C256	00C9	2.3	1.6		12.50
NEC	UPD27C256C	*	32768X8	28	N27C256	00C8	1.6	1.4		21.00
NEC	UPD27C4001		524288X8	32	N27C4001	2204	4.12	2.2	8047	12.50
NEC	UPD27C512D	*	65536X8	28	I27C512	00CC	3.3	2.2		12.50
NEC	UPD27C64A0	*	8192X8	28	I27C64	00C1	2.2	1.6		12.50
NEC	UPD27C640/C	*	8192X8	28	N27C64	00C0	1.0	1.0		21.00
NEC	UPD28C64	*	8192X8	28	X2864	0182	3.3	2.2	8046	
NECM	UPD8741A		1024X8	40	8741A	1541	1.6	1.4	8045	23.00
NECM	UPD8748		1024X8	40	8748	1548	1.6	1.4	8045	18.00
NECM	UPD8748H		1024X8	40	8748H	1547	2.0	1.6	8045	18.00
NECM	UPD8749H		2048X8	40	8749H	1549	1.6	1.4	8045	18.00
NECM	UPD8755A		2048X8	40	8755A	1555	1.5	1.4	8042	25.00
OKI										
OKI	MSM27128	*	16384X8	28	I27128	0084	1.0	1.0		21.00
OKI	MSM2532		4096X8	24	2532	0070	1.0	1.0		25.00
OKI	MSM2708		1024X8	24	TMS2708	0084	1.0	1.0		
OKI	MSM271000	*	131072X8	32	I27C1001	2020	3.2	1.7	8047	12.50
OKI	MSM271024	*	131072X8	32	I27C1024	2042	3.2	1.7	8048	12.50
OKI	MSM27128	*	16384X8	28	I27128	0084	1.0	1.0		21.00
OKI	MSM2716		2048X8	24	2716	0000	1.0	1.0		25.00
OKI	MSM27256	*	32764X8	28	I27256	0088	1.0	1.0		12.50

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CONT'D										
OKI	MSM2732		4096X8	24	2732	0010	1.0	1.0		25.00
OKI	MSM2732A		4096X8	24	2732A	0011	1.0	1.0		21.00
OKI	MSM27512	*	65536X8	28	I27512	008C	2.0	1.6		12.50
OKI	MSM2758		1024X8	24	2758	0020	1.0	1.0		
OKI	MSM2764	*	8192X8	28	I2764	0080	3.3	2.2		21.00
OKI	MSM2764AS	*	8192X8	28	I2764A	0081	1.5	1.4		12.50
OKI	MSM27C1024	*	65536X16	40	I27C1024	2042	3.2	1.7	8048	12.50
OKI	MSM27C128		16384X8	28	N27C128	00C4	3.3	2.2		
OKI	MSM27C256	*	32764X8	28	I27C256	00C9	2.3	1.6		12.50
OKI	MSM27C512D	*	65536X8	28	I27C512	008C	3.2	1.7		12.50
OKI	MSM27C64	*	8192X8	28	N27C64	00C9	3.3	2.2		12.50
OKI	MSM2816A		2048X8	24	X2816A	0143	2.2	1.6	8046	
OKI	MSM8755A		2048X8	40	8755A	1555	1.5	1.4	8042	25.00
PHILIPS										
PHL	27C256	*	32768X8	28	I27C256	00C9	2.3	1.6		12.50
RCA										
RCA	CPD18U42C	*	256X8	24	CDP18U42C	1842	4.12	1.6	3041	12.50
RICOH										
RIC	RD27C256	*	32768X8	28	I27C256	00C9	2.3	1.6		12.50
RIC	RD27C64	*	8192X8	28	I27C64	00C1	2.2	1.6		12.50
ROCKWELL										
ROC	R27C64P	*	8192X8	28	I27C64	00C1	1.0	1.0		21.00
ROC	R2816A/H		2048X8	24	X2816A	0143	2.2	1.6	8046	
ROC	R5213/H		2048X8	24	I2816A	0142	2.2	1.6	8046	
ROC	R52B33/H		8192X8	28	52B33	0188	2.2	1.6	8046	
ROC	R5516A		2048X8	24	X2816A	0143	2.2	1.6	8046	
ROC	R87C32		4096X8	24	27C32A	0046	1.0	1.0		21.00
ROC	R87C64		8192X8	28	N27C64	00C0	2.2	1.6		21.00
SAMSUNG										
SAM	KM2816A		2048X8	28	X2816A	0143	2.2	1.6	8046	
SAM	KM2817A		2048X8	28	I2817A	0162	2.2	1.6	8046	
SAM	KM2864A		8192X8	28	X2864	182	3.3	2.2	8046	
SAM	KM2865A		8192X8	28	I2864	180	3.3	2.2	8046	
SEEQ										
SEQ	27128	*	16384X8	28	I27128	0084	1.0	1.6		21.00
SEQ	27256	*	32764X8	28	I27256	0088	3.3	2.2		
SEQ	2764	*	8192X8	28	I2764	0080	3.3	2.2		
SEQ	27C256	*	32768X8	28	I27C256	00C9	2.3	1.6		12.50
SEQ	2804A		512X8	24	X2804A	0158	3.3	2.2	8046	
SEQ	2816A		2048X8	24	X2816A	0143	2.2	1.6	8046	
SEQ	2816AH		2048X8	24	X2816A	0143	2.2	1.6	8046	
SEQ	2817A		2048X8	28	I2817A	0162	2.2	1.6	8046	
SEQ	2817AH		2048X8	28	I2817A	0162	2.2	1.6	8046	
SEQ	2864/H		8192X8	28	I2864	0180	3.3	2.2	8046	
SEQ	28C64		8192X8	28	X2864	0182	3.3	2.2	8046	
SEQ	28C256		32764X8	28	X28256	0192	3.3	2.2	8046	

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CONT'D										
SEQ	28C65		8192X8	28	I2864	180	3.3	2.2	8046	
SEQ	5133/H	*	8192X8	28	I2764	0080	1.0	1.0		21.00
SEQ	5143/H	*	16384X8	28	I27128	0084	1.0	1.0		21.00
SEQ	52813		2048X8	24	I2816A	0142	2.2	1.6	8046	
SEQ	52813/H		2048X8	24	I2816A	0142	2.2	1.6	8046	
SEQ	52833		8192X8	28	52833	0188	2.2	1.6	8046	
SEQ	52833/H		8192X8	28	52833	0188	2.2	1.6	8046	
SEQ	5516A		2048X8	24	X2816A	0143	2.2	1.6	8046	
SEQ	5517A		2048X8	28	I2817A	0162	2.2	1.6	8046	
SEQ	5517AH		2048X8	28	I2817A	0162	2.2	1.6	8046	
SEQ	55833		8192X8	28	55833	0188	2.2	1.6	8046	
SEQ	55833H		8192X8	28	55833	0188	2.2	1.6	8046	
SEIKO EPSON										
SPM	27C64	*	8192X8	28	N27C64	00C0	3.3	2.2		21.00
SPM	27128	*	16384X8	28	I27128	0084	3.3	2.2		21.00
SPM	27C256	*	32768X8	28	I27C256	00C9	3.3	2.2		12.50
SPM	2864	*	8192X8	28	HN58064	0189	3.3	2.2	8046	
SGS-ATES										
SGS	2532		4096X8	24	2532	0070	1.0	1.0		25.00
SGS	27128A	*	16384X8	28	I27128A	0085	1.5	1.4		12.50
SGS	2716/P		2048X8	24	2716	0000	1.0	1.0		25.00
SGS	27256	*	32768X8	28	I27256	0088	1.0	1.0		12.50
SGS	2732A/P		4096X8	24	2732A	0011	1.0	1.0		21.00
SGS	27512	*	65536X8	28	I27512	008C	2.0	1.6		12.50
SGS	2764A/P	*	8192X8	28	I2764A	0081	1.5	1.4		12.50
SGS	2764/P	*	8192X8	28	I2764	0080	1.0	1.0		21.00
SGS	2816		2048X8	24	I2816	0141	3.3	2.2	8041	
SIGNETICS										
SIG	2708		1024X8	24	TMS2708	0084	1.0	1.0		
SIG	27C256	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
SIG	87C64	*	8192X8	28	I87C64	00C2	3.3	2.2		12.50
SIG	27C64	*	8192X8	28	I27C64	00C1	2.2	1.6		12.50
SIG	87C256	*	32768X8	28	I87C256	00CA	3.3	2.2		12.50
SIG	SC87C51	*	4096X8	40	87518H	1553	3.3	2.2	8043	12.75
TEXAS INSTRUMENTS										
TI	TMS2704		512X8	24	TMS2704	0080	1.0	1.0		
TI	TMS2516		2048X8	24	2716	0000	1.0			25.00
TI	TMS2532		4096X8	24	2532	0070	1.0	1.0		25.00
TI	TMS2532A		4096X8	24	TMS2532A	0073	3.3	2.2		21.00
TI	TMS2564		8192X8	28	TMS2564	0074	1.0	1.0		25.00
TI	TMS27C1001		131072X8	32	A27C1001	2028	3.4	2.2	8047	
TI	TMS2708		1024X8	24	TMS2708	0084	1.0	1.0		
TI	TMS27128	*	16384X8	28	I27128	0084	1.0	1.0		21.00
TI	TMS2716		2048X8	24	TMS2716	0088	1.0	1.0		
TI	TMS27256	*	32768X8	28	I27256	0088	1.0	1.0		12.50
TI	TMS2732A		4096X8	24	2732A	0011	1.0	1.0		21.00
TI	TMS2732A		4096X8	24	TMS2732A	0013	3.3	2.2		21.00
TI	TMS2758JLO		1024X8	24	2758	0020	1.0	1.0		

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CONT'D										
TI	TMS2764	*	8192X8	28	I2764	0080	1.0	1.0		21.00
TI	TMS27C010		131072X8	32	T27C010	2026	4.12	1.7	8047	12.50
TI	TMS27C128	*	16384X8	28	I27C128	00C5	2.3	1.6		12.50
TI	TMS27C128	IQP	16384X8	28	Q27C128	0095	3.2	1.7		12.75
TI	TMS27C128	SNP	16384X8	28	T27C128	0085	3.4	2.2		13.00
TI	TMS27C1024	SNP	131072X8	40	T27C1024	2045	3.4	2.2	8048	13.00
TI	TMS27C256	IQP	32768X8	28	Q27C256	0099	3.2	1.7		12.75
TI	TMS27C256	SNP	32768X8	28	T27C256	0089	3.4	2.2		13.00
TI	TMS27C256	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
TI	TMS27C32	SNP	4096X8	24	T27C32	0048	3.4	2.2		13.00
TI	TMS27C512	*	65536X8	28	I27C512	00CC	2.2	1.6		12.50
TI	TMS27C512	IQP	65536X8	28	Q27C512	0090	3.2	1.7		12.75
TI	TMS27C512	SNP	65536X8	28	T27C512	0080	3.4	2.2		13.00
TI	TMS27C64	SNP	8192X8	28	T27C64	0081	3.4	2.2		13.00
TI	TMS27C64	*	8192X8	28	I27C64	00C1	3.3	2.2		12.50
TI	TMS27L08		1024X8	24	TMS2708	0084	1.0	1.0		
THOMPSON SC										
TSC	ET27128		16384X8	28	I27128	0084	3.3	2.2		21.00
TSC	ET2716Q		2048X8	24	2716	0000	1.0	1.0		25.00
TSC	ET2764		8192X8	28	I2764	0080	1.0	1.0		21.00
TSC	ETC2716		8192X8	28	27C16	0040	1.0	1.0		25.00
TSC	ETC2732		4096X8	28	27C32	0044	1.0	1.0		25.00
TSC	TS27C256		32768X8	28	I27C256	00C9	2.2	1.6		12.50
TSC	TS27C64		8192X8	28	I27C54	00C1	2.2	1.6		12.50
TOSHIBA										
TOS	TC54256AP	IQP	32768X8	28	Q27C256	0099	3.2	1.7		12.75
TOS	TC54256P	*	32768X8	28	N27C256	00C3	3.3	2.2		21.00
TOS	TC54512DAP		65536X8	28	Q27C512	0090	4.12	1.7		12.50
TOS	TC571000D	*	131072X8	32	Q27C1001	2000	3.2	1.7	8047	12.75
TOS	TC571001D		131072X8	32	Q27C1000	2010	3.2	1.7	8047	12.75
TOS	TC57256AD	IQP	32768X8	28	Q27C256	0099	3.2	1.7		12.75
TOS	TC57256D		32768X8	28	N27C256	00C8	1.6	1.4		21.00
TOS	TC574000		524288X8	32	N27C4001	2204	4.12	1.7	8047	12.50
TOS	TM2704		512X8	24	TMS2704	0080	1.0	1.0		
TOS	TMM24128AP	IQP	16384X8	28	Q27128A	0094	3.2	1.7		12.75
TOS	TMM24256AP	IQP	32768X8	28	Q27256	0098	3.2	1.7		12.75
TOS	TMM24512AP	IQP	65536X8	28	Q27512	009C	3.2			12.75
TOS	TMM2464AP	IQP	8192X8	28	Q2764	0090	3.2			12.75
TOS	TMM27128AD	*	16384X8	28	I27128	0085	1.5	1.4		12.50
TOS	TMM27128AD	IQP	16384X8	28	Q27128	0094	3.2	1.7		12.75
TOS	TMM27128D	*	16384X8	28	I27128	0084	1.0	1.0		21.00
TOS	TMM27256AD	IQP	32768X8	28	Q27256	0098	3.2	1.7		12.75
TOS	TMM27256AD	*	32768X8	28	I27256	0088	1.0	1.0		12.50
TOS	TMM27256D	*	32768X8	28	N27256	0089	3.3	2.2		
TOS	TMM2732A		4096X8	24	2732A	0011	1.0	1.0		21.00
TOS	TMM2732D		4096X8	24	2732	0010	1.0	1.0		25.00
TOS	TMM27512D/PIQP		65536X8	28	Q27512	009C	3.2	1.7		12.75
TOS	TMM2764AD	IQP	8192X8	28	Q2764	0090	3.2	1.0		12.75
TOS	TMM2764D	*	8192X8	28	I2764	0080	1.0	1.0		21.00
TOS	TMM321		512X8	24	TMS 2704	0080	1.0	1.0		

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MFR	DEVICE NUMBER	INT	DEVICE SIZE	PIN OUT	NAME	CODE	SW REV	HW REV	DA	PROG VOLTAGE
CONT'D										
TOS	TMM322		1024X8	24	TMS 2708	0084	1.0	1.0		
TOS	TMM323		2048X8	24		2716 0000	1.0	1.0		25.00
TOS	TMP8755		2048X8	40		8755A 1555	1.5	1.4	8042	25.00
VLSI TECHNOLOGY										
VTI	28H64		8192X8	28	I2864	0180	2.2	1.6	8046	
VTI	VT27C128	*	16384X8	28	I27C128	00C5	2.2	1.6		12.50
VTI	VT27C256	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
VTI	VT27C64	*	8192X8	28	I27C64	00C1	2.2	1.6		12.50
WAFERSCALE INTEGRATION										
WSI	WS27C128F	*	16384X8	28	I27C128	00C5	2.2	1.6		12.50
WSI	WS27C256F	*	32768X8	28	I27C256	00C9	2.2	1.6		12.50
WSI	WS57C64F	*	8192X8	28	I27C64	00C1	2.2	1.6		12.50
WSI	WS27040	*	524288X8	32	Q27C4001	2200	4.12	1.7	8047	12.50
XICOR										
XIC	X2804A		512X8	24	X2804A	0158	2.2	1.6	8046	
XIC	X2816A/B/H		2048X8	24	X2816A	0143	2.2	1.6	8046	
XIC	X28256		32768X8	28	X28256	0192	2.2	1.6	8046	
XIC	X2864A/B/H		8192X8	28	X2864	0182	2.2	1.6	8046	
XIC	X28C256		32768X8	28	X28256	0192	2.2	1.6	8046	
XIC	X28C64		8192X8	28	X2864	0182	2.2	1.6	8046	