Orbit 48

Device Support List

Version 29.0

Note ALL PLDs require Orbit 48 PLD Module

Please consult device specific information at the end of this list.

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ALTERA

Code	Device	Rev
PLD		
067049	EP310-XX D,P	13.0
067137	EP320 D,P	13.0
065137	EP320I D,P	13.0
067232	EP330 P	13.0
067067	EP610 D,P	13.0
067307	EP610 P -XXT	13.0
066067	EP630-XX P	13.0
066067	EP630 P	13.0
064067	EP610I D,P	13.0

AMD

Code	Device	Rev
EPROM		
09E0E0	AM2716,AM9716	14.0
09F0E0	AM2716B	14.0
09E0E1	AM2732	14.0
09F0E1	AM2732B	14.0
09E0E2	AM2764-XX D	14.0
09F0E2	AM2764A-XX D	14.0
09F0F2	AM27C64-XX P,D,X	1.0
09F0F3	AM27C128-XX P,D,X	1.0
09F0F4	AM27C256-XX P,D,X	1.0
09F0C4	AM27H256-XX D	1.0
09FFE4	AM28F256-XX D,P	1.0
09F0F5	AM27C512(L)-XX D,P,X	.0
09FFE5	AM28F512-XX D,P	1.0
09FF76	AM29F010-XX P	21.0
09DF76	AM29F010B-XX P	29.0
09F0F6	AM27C010-XX P,D,X	1.0
09F0C6	AM27H010-XX D,X,P	1.0
09FFE6	AM28F010-XX D,P	1.0
09EFE6	AM28F010A-XX D,P	1.0
09FFF6	AM27C100-XX D,P	1.0
09F0F7	AM27C020-XX D,P,X	1.0
09FFE7	AM28F020-XX D,P	1.0
09EFE7	AM28F020A-XX D,P	1.0
89FFA2	AM29F002B-XX E	27.0
89FFA3	AM29F002T-XX E	27.0
09FF78	AM29F040-XX D,P	1.0
09F0F8	AM27C040-XX D,X,P	1.0
09F0F9	AM27C080-XX D,P	12.0
09F0D6	AM27C1024-XX D,P,Q	1.0
09F0D7	AM27C2048-XX D,P,Q	1.0
09F0D8	AM27C4096-XX D	1.0
09FFD8	AM27C400-XX D	1.0
09FFD9	AM27C800-XX D,P	1.0
09FFB6	AM27C191,291 D,P	1.0
09FFB8	AM27C49-XX D,P	1.0

ATMEL

Code	Device	Rev
EEPROM		
0FF5A3	AT24C01A-10P	1.0
0FF5B3	AT25C01-XX P	11.0
0FF5A4	AT24C02-10P	1.0
0FF5B4	AT25C02-XX P	11.0
0FEFCA	AT28C04(E,F)-XX D,P	1.0
0FF5A5	AT24C04-10P	1.0
0FF5B5	AT25C04-XX P	11.0
0FF5A6	AT24C08-10P	1.0
0FFFC0	AT28C16(E,F)-XX D,P	1.0
0FEFC0	AT28C16-XX D,P	1.0
0FFFCC	AT28C17(E,F)-XX D,P	9.0
0FEFCC	AT28C17-XX D,P	9.0
0FF5A7	AT24C16-10P	1.0
0FEEC2	AT28C64(E,F)-XX D,P	1.0
0FEFC2	AT28C64-XX D,P	1.0
0FFEC2	AT28PC64(E)-XX D,P	1.0
0FFFC2	AT28C64B-XX D,P	1.0
0FEFC4	AT28C256(E)-XX D,P	1.0
0FFFC6	AT28C010-XX B	1.0
0FF5C3	AT93C46-XXP	1.0
0FF5C4	AT93C56-XXP	1.0
0FF5C5	AT93C66-XXP	1.0
EPROM		
0FE0C2	AT27HC64(L)-XX D,P	1.0
0FE0F3	AT27C128-XX D,P	1.0
0FE0F4	AT27C256-XX D,P	1.0
0FF0F4	AT27C256R-XX D,P	1.0
0FE0C4	AT27HC256(L)-XX D,P	1.0
0FF0C4	AT27HC256R(L)-XX D,P	1.0
0FFF34	AT27LV256R-XX D,P	9.0
0FFFE4	AT29C257-XX D,P	7.0
0FFFE0	AT29C256-XXD,P	7.0
0FE0F5	AT27C512-XX D,P	1.0
0FF0F5	AT27C512R-XX D,P	1.0
0FFF35	AT27LV512R-XX D,P	9.0
0FEEF5	AT27C513-XX D,P	2.0
0FFEF5	AT27C513R-XX D,P	2.0
0FFFE5	AT29C512-XX D,P	7.0
0FF0F6	AT27C010(L)-XX D,J	1.0
0FFF36	AT27LV010-XX D,P	9.0
0FFFE6	AT29C010-XX D,P	24.1
0FF0F7	AT27C020-XX D,P	1.0
0FFF37	AT27LV020-XX D,P	9.0
0FFFE7	AT29C020-XX D,P	7.0
0FF0F8	AT27C040-XX	1.0
0FFF38	AT27LV040-XX D,P	9.0
0FFFE8	AT29C040-XX D,P	7.0
0FEFE8	AT29C040A-XX D,P	13.0
0FF0F9	AT27C080-XX D,P	1.0
0FFF39	AT27LV080-XX D,P	9.0
0FF0D6	AT27C1024(L)-XX D,P	1.0
1FFFAA	AT29C1024-XX J	26.0

	Requires Adaptor 69-0391	
0FF0B6	AT27HC1024-XX D	1.0
0FFF40	AT27LV1024-XX D,P	9.0
0FF0D8	AT27C4096-XX D,P	1.0

PLD

0FF070	AT22V10/L-XX D,G,P	13.0
0FF009	ATF16V8B/L G,P	13.0
0FF069	ATF20V8B/L G,P	13.0
0FC070	ATF22V10B/L G,P	13.0

MICRO

0FFA00	AT89C51 D,P	24.0
0FFA01	AT89C52-XX D,P	24.0
0FFA0E	AT89C55-XX P	24.0

CATALYST

Code	Device	Rev

EEPROM

0D75A3	CAT24(W)C01 P	26.0
0D75A4	CAT24(W)C02 P	1.0
0D75A5	CAT24(W)C04 P	1.0
0D75A6	CAT24(W)C08 P	1.0
0D7FC0	CAT28C16A (I)-XX D,P	1.0
0D75A7	CAT24(W)C16 P	1.0
0D75A8	CAT24(W)C32 P	11.0
0D73A8	CAT24LC32(I)	11.0
0D75A9	CAT25(W)C64 P	26.0
0D7FC2	CAT28C64A-XX D,P	1.0
0D65C5	CAT93C66(A) P	26.0
0D65C7	CAT93C86(A) P	26.0
0D7FC4	CAT28C256(I)-XX D,P	1.0
0D75C3	CAT93C46(A) P	1.0
0D75C4	CAT93C56(A) P	1.0
0D75C5	CAT35C104 D	1.0
0D75C6	CAT35C108	1.0
0D75C7	CAT35C116 D	1.0
0D7FE6	CAT28F010-XX P	1.0
0D6FE6	CAT29F010-XX P	7.0
0D7FE7	CAT28F020(I)-XX P	1.0

EPROM

0D70D6	CAT27C210-XX D	1.0
0D7F66	CAT28F102P	24.0

CYPRESS

Code	Device	Rev

EPROM

02F0F4	CY27C256-XX P,W	1.0
02C0F6	CY27H010-XX P,W	1.0
02F0E4	CY27C256A-XX P,W	24.0
02F0E5	CY27C512-XX D,W	24.0
02C0F5	CY27H512-XX P,W	24.0

PLD

02F009	PALCE16V8 D,P	13.0
02E029	PALCE16V8 P as 16L8	13.0
02E032	PALCE16V8 P as 16R4	13.0
02E031	PALCE16V8 P as 16R6	13.0
02E030	PALCE16V8 P as 16R8	13.0
02F070	PALC22V10/L-XX P,W	13.0
02E070	PALC22V10B-XX P,W	13.0
E2F077	PLDC20RA10-XX D,P,W	13.0
E2C070	PALC22V10D-XX D,P	13.0
E2B070	PALCE22V10 P	18.0

DALLAS SEMICONDUCTOR

Code	Device	Rev

MICRO

008A02	DS87C520-M	24.0

EXEL

Code	Device	Rev

EEPROM

0075A3	XL24C01A P	8.0
0075A4	XL24C02 P	8.0
0075A5	XL24C04 P	8.0
006EC0	XL2816A P	11.0
006FC0	XL28C16A P	11.0
007FC0	XL28C16B P	8.0
0075A6	XL24C08 P	8.0
0075A7	XL24C16 P	8.0
006EC2	XL2864A P	8.0
006FC2	XL28C64 P	8.0
007FC2	XL28C64B P	8.0
0075C1	XL93LC06A P	8.0
0075F3	XL93CS46 P	8.0
0075C3	XL93LC46A	8.0
0075C4	XL93LC56A P	8.0
0075C5	XL93LC66A P	8.0
007FE6	XL28F010 P	8.0
007FE7	XL28F020 P	8.0

FUJITSU

Code	Device	Rev

EPROM

0AE0E0	MBM2716(H)	16.0
0AE0F1	MBM27C32A	24.0
0AE0E2	MBM2764-XX Z	14.0
0AE0F2	MBM27C64-XXZ	1.0
0AE0E3	MBM27128-XX Z	14.0

0AE0F3	MBM27C128-XX Z	1.0
0AE0E4	MBM27256-XX Z	14.0
0AE0F4	MBM27C256A-XX Z	1.0
0AE0F5	MCM27C512-XX Z	1.0
0AE0F6	MCM27C1001-XX Z	1.0
0AFFE6	MBM28F010-XX	1.0
8AFFA2	MBM29F002B-X PFTN/R	27.0
8AFFA3	MBM29F002T-X PFTN/R	27.0
9AFFA2	MBM29F002SB-X PFTN/R	27.0
9AFFA3	MBM29F002ST-X PFTN/R	27.0
0AFF78	MBM29F040A-XX P	9.0
0AEFF6	MBM27C1000-XX Z	1.0
0AE0F8	MBM27C4001-XX	1.0
0AE0D6	MCM27C1024-XX Z	1.0
0AF0D7	MBM27C2048-XX Z	5.0
0AF0D8	MSM27C4096-XX Z	1.0

GOULD

Code	Device	Rev
PLD		
027070	PEEL22CV10-XX P,C	13.0
028181	PEEL22CV10A+-XX P,C	13.0
028070	PEEL22CV10A-XX P,C	13.0
027181	PEEL22CV10Z-XX P,C	13.0

HITACHI

Code	Device	Rev
EEPROM		
0BFFC2	HN58C65P-XX	1.0
0BFFC4	HN58C256P-XX	1.0
EPROM		
0BE0E0	HN462716	16.0
0BE0E1	HN462732(G)-X	24.0
0BE0E2	HN482764(G)	14.0
0BF0F4	HN27C256AG-XX	1.0
0BE0F4	HN27C256HG-XX	1.0
0BE0E5	HN27512 G,P -XX	14.0
0BE0F5	HN27C512G-XX	1.0
0BE0F6	HN27C101 G,P -XX	1.0
0BF0F6	HN27C101A G,P -XX	1.0
0BFFE6	HN28F101P-XX	14.0
0BFFF6	HN27C301(A)G-XX	1.0
0BF0F8	HN27C4001G-XX	1.0
0BF0D6	HN27C1024HG-XX	1.0
0BFFD8	HN27C4000G-XX	12.0
0BF0D8	HN27C4096(A)G-XX	1.0

ICT

Code	Device	Rev
EPROM		
0960F4	27CX256C-XX	1.0
0960F6	27CX010C-XX	1.0
PLD		
096009	PEEL16V8 P	15.0
096029	PEEL16V8 P as 16L8	15.0
096032	PEEL16V8 P as 16R4	15.0
096031	PEEL16V8 P as 16R6	15.0
096030	PEEL16V8 P as 16R8	15.0
096119	PEEL18CV8-XX P,C	15.0
096069	PEEL20V8 P	15.0
097181	PEEL22CV10A+-XX P,C	13.0
097070	PEEL22CV10A-XX P,C	13.0
096181	PEEL22CV10Z-XX P,C	13.0
096070	PEEL22CV10-XX P,C	13.0

INTEL

Code	Device	Rev
EPROM		
06E0E0	D2716-XX	14.0
06E0E1	D2732A-XX	14.0
06E0E2	D2764A-XX	14.0
06F0F2	D27C64	16.0
06E0E3	D27128A	14.0
06E0F3	D27128B	24.0
06F0F3	D27C128	24.0
06E0E4	D27256-XX	14.0
06F0F4	D27C256-XX	1.0
06F0A5	D87C257	18.0
06F0E4	P27256-XX	14.0
06FFE4	P28F256A-XX	1.0
06E0E5	D27512-XX	14.0
06F0F5	D27C512-XX	1.0
06FEF5	D27C513	2.0
06FFE5	P28F512-XX	1.0
06F0F6	D27C010-XX	1.0
06FFE6	P28F010-XX	1.0
06FEF6	D27C011	9.0
06FFA0	P28F001BX-BXX	9.0
06FFA1	P28F001BX-TXX	9.0
06F0F7	D27C020-XX	1.0
06FFE7	P28F020-XX	1.0
06F0F8	D27C040-XX	1.0
06F0D6	D27C210-XX	1.0
06F0D7	D27C220-XX	1.0
06F0D8	D27C240-XX	1.0
06FFD8	D27C400-XX	1.0
36DF92	PA28F200BV-B	23.0 requires 69-0541
36DF93	PA28F200BV-T	23.0

		requires 69-0541
36EF94	PA28F400BL-B	23.0
		requires 69-0541
36EF95	PA28F400BL-T	23.0
		requires 69-0541
36DF96	PA28F800BV-B	17.0
		requires 69-0541
36DF97	PA28F800BV-T	17.0
		requires 69-0541

MICRO

06FA00	D87C51	1.0
06FA01	D87C51FA	1.0
06FA1C	D87C52	1.0
06FA02	D87C51FB	1.0
06FA1A	D87C54	1.0
06FA03	D87C51FC	1.0
06FA1B	D87C58	1.0

ISSI

Code	Device	Rev

EEPROM

0045C3	IS93C46-3P	24.0
0045C4	IS93C56-3P	24.0
0045C5	IS93C66-3P	24.0
0043A4	IS24C02-3P	24.0
0045A4	IS24C02-P	24.0
0043A5	IS24C04-3P	24.0
0045A5	IS24C04-P	24.0

EPROM

0040F4	IS27HC256-XX CW,W	7.0
0040F5	IS27HC512-XX CW,W	7.0
0040F6	IS27HC010-XX CW,W	1.0
004FE6	IS28F010-XX W	7.0
004FE7	IS28F020-XX W	24.0

LATTICE

Code	Device	Rev

PLD

077009	GAL16LV8 family P	13.0
076286	GAL16VP8B-XX P	13.0
077069	GAL20LV8 family P	13.0
076287	GAL20VP8B-XX P	13.0
076060	GAL20XV10 P AS 20L10	13.0
076061	GAL20XV10 P AS 20X10	13.0
076063	GAL20XV10 P AS 20X4	13.0
076062	GAL20XV10 P AS 20X8	13.0
076269	GAL20XV10B-XX P	13.0
076009	GAL16V8 family P	13.0
076020	GAL16V8 P AS 10H8	13.0
076025	GAL16V8 P AS 10L8	13.0
076018	GAL16V8 P AS 10P8	13.0
076021	GAL16V8 P AS 12H6	13.0
076026	GAL16V8 P AS 12L6	13.0
076017	GAL16V8 P AS 12P6	13.0
076022	GAL16V8 P AS 14H4	13.0
076027	GAL16V8 P AS 14L4	13.0
076016	GAL16V8 P AS 14P4	13.0
076023	GAL16V8 P AS 16H2	13.0
076035	GAL16V8 P AS 16H8	13.0
076028	GAL16V8 P AS 16L2	13.0
076029	GAL16V8 P AS 16L8	13.0
076014	GAL16V8 P AS 16P2	13.0
076038	GAL16V8 P AS 16P8	13.0
076032	GAL16V8 P AS 16R4	13.0
076031	GAL16V8 P AS 16R6	13.0
076030	GAL16V8 P AS 16R8	13.0
076013	GAL16V8 P AS 16RP4	13.0
076012	GAL16V8 P AS 16RP6	13.0
076011	GAL16V8 P AS 16RP8	13.0
076226	GAL18V10/B-XX P	13.0
076069	GAL20V8 family P	13.0
076100	GAL20V8 P AS 14H8	13.0
076051	GAL20V8 P AS 14L8	13.0
076072	GAL20V8 P AS 14P8	13.0
076102	GAL20V8 P AS 16H6	13.0
076052	GAL20V8 P AS 16L6	13.0
076073	GAL20V8 P AS 16P6	13.0
076104	GAL20V8 P AS 18H4	13.0
076053	GAL20V8 P AS 18L4	13.0
076074	GAL20V8 P AS 18P4	13.0
076106	GAL20V8 P AS 20H2	13.0
076107	GAL20V8 P AS 20H8	13.0
076054	GAL20V8 P AS 20L2	13.0
076056	GAL20V8 P AS 20L8	13.0
076075	GAL20V8 P AS 20P2	13.0
076108	GAL20V8 P AS 20P8	13.0
076059	GAL20V8 P AS 20R4	13.0
076058	GAL20V8 P AS 20R6	13.0
076057	GAL20V8 P AS 20R8	13.0
076109	GAL20V8 P AS 20RP4	13.0
076110	GAL20V8 P AS 20RP6	13.0
076111	GAL20V8 P AS 20RP8	13.0
076077	GAL20RA10/B-XX P	13.0
076070	GAL22V10 family P	13.0

LATTICE/VANTIS

Code	Device	Rev

PLD

09F135	PALCE29M16H-XX P	13.0
09F136	PALCE29MA16H-XX P	13.0
09B070	PALLV22V10/Z P	13.0
09F009	PALCE16V8H/Q/Z-XX P	10.0
09D009	PALLV16V8/Z-XX PC /5	13.0
09E009	PALLV16V8Z-XX PC /4	13.0
09F245	PALCE16V8HD-XX P	13.0
09F020	PALCE16V8 P AS 10H8	10.0
09F025	PALCE16V8 P AS 10L8	10.0

09F018	PALCE16V8 P AS 10P8	10.0
09F021	PALCE16V8 P AS 12H6	10.0
09F026	PALCE16V8 P AS 12L6	10.0
09F017	PALCE16V8 P AS 12P6	10.0
09F022	PALCE16V8 P AS 14H4	10.0
09F027	PALCE16V8 P AS 14L4	10.0
09F016	PALCE16V8 P AS 14P4	10.0
09F023	PALCE16V8 P AS 16H2	10.0
09F035	PALCE16V8 P AS 16H8	10.0
09F028	PALCE16V8 P AS 16L2	10.0
09F029	PALCE16V8 P AS 16L8	10.0
09F014	PALCE16V8 P AS 16P2	10.0
09F038	PALCE16V8 P AS 16P8	10.0
09F032	PALCE16V8 P AS 16R4	10.0
09F031	PALCE16V8 P AS 16R6	10.0
09F030	PALCE16V8 P AS 16R8	10.0
09F013	PALCE16V8 P AS 16RP4	10.0
09F012	PALCE16V8 P AS 16RP6	10.0
09F011	PALCE16V8 P AS 16RP8	10.0
09F069	PALCE20V8H/Q-XX P	10.0
09F100	PALCE20V8 P AS 14H8	10.0
09F051	PALCE20V8 P AS 14L8	10.0
09F072	PALCE20V8 P AS 14P8	10.0
09F102	PALCE20V8 P AS 16H6	10.0
09F052	PALCE20V8 P AS 16L6	10.0
09F073	PALCE20V8 P AS 16P6	10.0
09F104	PALCE20V8 P AS 18H4	10.0
09F053	PALCE20V8 P AS 18L4	10.0
09F074	PALCE20V8 P AS 18P4	10.0
09F106	PALCE20V8 P AS 20H2	10.0
09F107	PALCE20V8 P AS 20H8	10.0
09F054	PALCE20V8 P AS 20L2	10.0
09F056	PALCE20V8 P AS 20L8	10.0
09F075	PALCE20V8 P AS 20P2	10.0
09F108	PALCE20V8 P AS 20P8	10.0
09F059	PALCE20V8 P AS 20R4	10.0
09F058	PALCE20V8 P AS 20R6	10.0
09F057	PALCE20V8 P AS 20R8	10.0
09F109	PALCE20V8 P AS 20RP4	10.0
09F110	PALCE20V8 P AS 20RP6	10.0
09F111	PALCE20V8 P AS 20RP8	10.0
09F077	PALCE20RA10H/Q-XX P	15.0
09A070	PALCE22V10H/Q P	10.0
09F070	PALCE22V10H/Q P /4/5	10.0
099070	PALCE22V10Z P	10.0
09F067	PALCE610H-XX P	13.0

MACRONIX

Code	Device	Rev
EPROM		
0130F5	MX26C512PC-XX	25.0
0130F6	MX26C1000PC-XX	25.0
0030F4	MX27C256DC/PD-XX	1.0
003F34	MX27L256DC/PC-XX	1.0
0030F5	MX27C512DC/PC/MC-XX	1.0
003F35	MX27L512DC/PC-XX	1.0
0030F6	MX27C1000DC/PC-XX	1.0
003F36	MX27L1000-XX DC,PC	21.0
003FE6	MX28F1000PC-XX	1.0
013FE6	MX28F1000PPC-XX	26.0
003FE6	MX28F1000PC-XX	1.0
003FF6	MX27C1001DC/PC-XX	1.0
0030F7	MX27C2000DC/PC-XX	1.0
003F38	MC27L4000DC/PC-XX	1.0
0030F8	MX27C4000DC/PC-XX	1.0
003FE8	MX28F4000PC-XX	1.0
0030D6	MX27C1024DC/PC-XX	1.0
0030D7	MX27C2048DC/PC-XX	1.0
0030D8	MX27C4096DC/PC-XX	1.0
003FD8	MX27C4100DC/PC-XX	1.0
003FD2	MX27C4111DC/PC-XX	1.0
003FD9	MX27C8100 D,P	21.0

MICROCHIP TECHNOLOGY

Code	Device	Rev
EEPROM		
0025A3	24C01A 85C72 /J,/P	1.0
0025A4	24C02 85C82 /J,/P	1.0
002FCA	28C04A(F)-XX(I) J,P	1.0
0025A5	24C04 85C92 /J,/P	1.0
0023A6	24C08B /J,/P	1.0
002FC0	28C16A(F)-XX(I) J,P	1.0
002FCC	28C17A(F)-XX(I) J,P	9.0
0023A7	24LC16B /J,/P	1.0
0025A7	24C32 /J,P	11.0
0023A7	24LC32 /J,P	11.0
002FC2	28C64A(F)-XX(I) J,P	1.0
0025A9	24C65 /J,P	11.0
0023A9	24LC65 /J,P	11.0
002FC4	28C256-XX(I) J,D,P	1.0
0025C1	93C06 P	1.0
0025C3	93C46 P	1.0
0025C4	93C56 D	1.0
0025C5	93C66 D	1.0
EPROM		
0020F2	27C64-XXX/K,P	1.0
0020C2	27HC64-XXX/J, P	1.0
0020F3	27C128-XXX/J,P	1.0
0020F4	27C256-XXX/J, P	1.0
0020C4	27HC256(L)-XXX/J, P	1.0
0020F5	27C512-XXX/J, P	1.0
MICRO		
002D16	PIC16C52 /P requires adaptor 101-020E	16.0
002D00	PIC16C54 requires adaptor 101-020E	5.0
002D02	PIC16C55 requires adaptor 101-020F	5.0
002D01	PIC16C56 requires adaptor 101-020E	5.0
002D03	PIC16C57	5.0

	requires adaptor 101-020F	
002D19	PIC16C72 /P	16.0
	requires adaptor 69-0491	
002D0A	PIC16C58A /P	16.0
	requires adaptor 101-020E	
002D18	PIC16C63 /P	16.0
	requires adaptor 69-0491	
002D0F	PIC16C620 /P	28.1
	requires adaptor 101-020E	
002D17	PIC16C70 /P	
	Now PIC16C710 /P	
002D17	PIC16C710 /P	28.1
	requires adaptor 101-020E	
002D0E	PIC16C61 /P	28.1
	requires adaptor 101-020E	
002D10	PIC16C621 /P	28.1
	requires adaptor 101-020E	
002D04	PIC16C71 /JW /P	28.1
	requires adaptor 101-020E	
002D12	PIC16C62 /P	16.0
	requires adaptor 101-020E	
002D06	PIC16C64 /P	16.0
	requires adaptor 69-0501	
002D14	PIC16C73 /P	16.0
	requires adaptor 69-0491	
002D13	PIC16C65 /P	16.0
	requires adaptor 69-0501	
002D15	PIC16C74 /P	16.0
	requires adaptor 69-0501	
002D11	PIC16C622 /P	28.1
	requires adaptor 101-020E	

MICRON TECHNOLOGY

Code	Device	Rev
EEPROM		
3F4F92	MT28F200SG-XB	24.0
3F4F93	MT28F200SG-XT	24.0

MITSUBISHI

Code	Device	Rev
EPROM		
0DE0E2	M5L2764K	20.0
0DE0F4	M5M27C256AK-I	1.0
0DE0F5	M5M27C512AK-I	1.0
0DF0F6	M5M27C101K-XX	1.0
0DFFE6	M5M28F101P-XX	1.0
0DFFF6	M5M27C100K-XX	1.0
0DF0F7	M5M27C201K-XX	1.0
0DF0F8	M5M27C401K-XX	1.0
0DF0D6	M5M27C102K-XX	1.0
0DF0D7	M5M27C202K-XX	1.0
0DFFD8	M5M27400/4AK-XX	1.0

NATIONAL

Code	Device	Rev
EEPROM		
03F5A4	NM24C02N	24.0
03F5A5	NM24C04N	24.0
03F5A6	NM24C08N	24.0
03F5A7	NM24C16N	24.0
03F5C1	NMC93C06 N	1.0
03F5F1	NMC93CS06 N	1.0
03F5C2	NMC93C26 N	1.0
03F5F2	NMC93CS26 N	1.0
03F5C3	NMC93C46 N	1.0
03F5F3	NMC93CS46 N	1.0
03F5C4	NMC93C56 N	1.0
03F5F4	NMC93CS56 N	1.0
03F5C5	NMC93C66 N	1.0
03F5F5	NMC93CS66 N	1.0
EPROM		
03E0E0	NMC27C16(E)XX	1.0
03F0F0	NMC27C16B-XX	1.0
03F0E0	NMC27C16H-XX	1.0
03E0E1	NMC27C32(E)XX	1.0
03E0F1	NMC27C32BQ(E)XX	1.0
03F0E1	NMC27C32H(E)XX	1.0
03F0F2	NM27C64XX	1.0
03E0E2	NMC27C64Q(E)XX	1.0
03F0F3	NM27C128XX	1.0
03E0F3	NMC27C128BQ(E)XXX	1.0
03E0F4	NMC27C256BQ(E)XXX	1.0
03E0E4	NMC27C256Q(E)XXX	1.0
03F0F5	NM27C512XX	1.0
03E0F5	NMC27C512AQ(E)XXX	1.0
03F0F6	NM27C010XX	1.0
03E0F6	NMC27C010Q(E)XXX	1.0
03F0F7	NM27C020Q(E)XXX	1.0
03F0F8	NM27C040XX	1.0
03F0D6	NM27C210 Q,N	1.0
03E0D6	NMC27C1024Q(E)XXX	1.0
03F0D7	NMC27C2048Q(E)XXX	1.0
PLD		
03F009	GAL16V8/A/QS/-XX N,J	18.0
03F020	GAL16V8 N,J AS 10H8	18.0
03F025	GAL16V8 N,J AS 10L8	18.0
03F018	GAL16V8 N,J AS 10P8	18.0
03F021	GAL16V8 N,J AS 12H6	18.0
03F026	GAL16V8 N,J AS 12L6	18.0
03F017	GAL16V8 N,J AS 12P6	18.0
03F022	GAL16V8 N,J AS 14H4	18.0
03F027	GAL16V8 N,J AS 14L4	18.0
03F016	GAL16V8 N,J AS 14P4	18.0
03F023	GAL16V8 N,J AS 16H2	18.0
03F035	GAL16V8 N,J AS 16H8	18.0
03F028	GAL16V8 N,J AS 16L2	18.0
03F029	GAL16V8 N,J AS 16L8	18.0

03F014	GAL16V8 N,J AS 16P2	18.0
03F038	GAL16V8 N,J AS 16P8	18.0
03F032	GAL16V8 N,J AS 16R4	18.0
03F031	GAL16V8 N,J AS 16R6	18.0
03F030	GAL16V8 N,J AS 16R8	18.0
03F013	GAL16V8 N,J AS 16RP4	18.0
03F012	GAL16V8 N,J AS 16RP6	18.0
03F011	GAL16V8 N,J AS 16RP8	18.0
03F069	GAL20V8/A/QS/-XX N,J	18.0
03F100	GAL20V8 N,J AS 14H8	18.0
03F051	GAL20V8 N,J AS 14L8	18.0
03F072	GAL20V8 N,J AS 14P8	18.0
03F102	GAL20V8 N,J AS 16H6	18.0
03F052	GAL20V8 N,J AS 16L6	18.0
03F073	GAL20V8 N,J AS 16P6	18.0
03F104	GAL20V8 N,J AS 18H4	18.0
03F053	GAL20V8 N,J AS 18L4	18.0
03F074	GAL20V8 N,J AS 18P4	18.0
03F106	GAL20V8 N,J AS 20H2	18.0
03F107	GAL20V8 N,J AS 20H8	18.0
03F054	GAL20V8 N,J AS 20L2	18.0
03F056	GAL20V8 N,J AS 20L8	18.0
03F075	GAL20V8 N,J AS 20P2	18.0
03F108	GAL20V8 N,J AS 20P8	18.0
03F059	GAL20V8 N,J AS 20R4	18.0
03F058	GAL20V8 N,J AS 20R6	18.0
03F057	GAL20V8 N,J AS 20R8	18.0
03F109	GAL20V8 N,J AS 20RP4	18.0
03F110	GAL20V8 N,J AS 20RP6	18.0
03F111	GAL20V8 N,J AS 20RP8	18.0
03D070	GAL22CV10-XX N,J	13.0

NEC

Code	Device	Rev
EEPROM		
0CFEC2	uPD28C64 D	24.0
EPROM		
0CE0E4	UPD27256D	14.0
0CE0F4	UPD27C256AD-XX	1.0
0CE0F5	UPD27C512D-XX	1.0
0CF0F6	UPD27C1001AD-XX	1.0
0CEFF6	UPD27C1000D-XX	1.0
0CF0F7	UPD27C2001D-XX	1.0
0CF0F8	UPD27C4001DZ-XX	1.0
0CF0F9	UPD27C8001DZ-XX	1.0
0CF0D6	UPD27C1024AD-XX	1.0
0CF0D8	UPD27C4096DZ-XX	1.0
0CFFD8	UPD27C4000CZ/DZ-XX	1.0

NexFlash

Code	Device	Rev
FLASH		
022F76	NX29F010-XX W	29.0

OKI

Code	Device	Rev
EPROM		
0050F6	MSM27C101/21/31	1.0
0050F7	MSM27C201/21/31	1.0
0050F8	MSM27C401/21/31	1.0
005FD8	MSM27C402/22/32	1.0
005FD9	MSM27C802/22/32	1.0

PHILIPS

Code	Device	Rev
EEPROM		
01F5A5	PCx8594x-2P	4.0
01F5A6	PCx8598x-2P	4.0
EPROM		
01F0F2	27C64A-XX FA,N	1.0
01F0F4	27C256-XX FA,N	1.0
01F0F5	27C512-XX FA,N	1.0
01E0F6	27C010-XX FA	1.0
01F0F6	27C010-XX N	1.0
01F0D6	27C210-XX FA	1.0
01F0D8	27C240-XX I	1.0
MICRO		
01FAC2	P87C750XX FFA,PN	12.0 requires 200-1F17
01FAC0	P87C748XX FFA,PN	12.0 requires 200-1F17
01FAC3	S87C751XX F24,N24	12.0 requires 200-1F17
01FAC1	P87C749XX FFA,PN	12.0 requires 200-1F17
01FAC4	S87C752XX F28,N28	12.0
01FA08	SC87C51XX F40,N40	5.0
01FA1C	P87C52XX F40,N40	5.0
01FA1D	P87C576XX FFA,PN	5.0
01FA09	S87C/L51FAXX F40,N40	5.0
01FA15	S87C575XX FA,PN	5.0
01FA05	S87C652-XX F40,N40	5.0
01FA14	P87C504XB FFA,PN	5.0
01FA02	P87C524XX FA,PN	5.0
01FA1A	P87C54XX FFA,PN	5.0
01FA0A	S87C/L51FBXXF40,N40	5.0

01FA06	S87C654-X F40,N40	5.0
01FA03	P87C528XX FA40,PN40	5.0
01FA0B	S87C/L51FC -X F40,N4	5.0

PLD

01F070	PL22V10-XX N	13.0

RAMTRON

Code	Device	Rev

EEPROM

0485A5	FM24C04 C,PS	9.0
0485A6	FM24C08 C,PS	9.0
0485A7	FM24C(Z)16 C,PS	9.0

SAMSUNG

Code	Device	Rev

EEPROM

009FC0	KM28C16(I)-XX P	1.0
009FCC	KM28C17-XX P	9.0
009FC2	KM28C64/5-XX P	1.0
009FC4	KM28C256-XX P	1.0

SANYO

Code	Device	Rev

EPROM

0EA0D8	LE27C4002F-XX Y	9.0

SEEQ

Code	Device	Rev

EEPROM

00FFCC	2817A,5517A	9.0
00FEC2	E/M2864(H)	7.0
00FFC4	E/M28C256A	7.0
00EFC4	E/M28C256	7.0

EPROM

00F0F4	DQ27C256-XX	21.0

SEIKO-EPSON

Code	Device	Rev

EPROM

0880E4	SPM27C256XX	24.0

SST

Code	Device	Rev

EPROM

05AFE6	PH29EE010-XX	24.1

STMicroelectronics

Code	Device	Rev

EEPROM

08F5A4	ST24C02AB	1.0
08F5A5	ST24C04B	1.0
08F5A6	ST24C08B	1.0
08F5A7	ST24C16 B	1.0
08E5A7	ST24E16D B	11.0
08E3A7	ST25E16D B	11.0
08E5A8	ST24E32D B	11.0
08E3A8	ST25E32D B	11.0
08FFC2	M28C64C-XXX P	1.0
08E5A9	ST24E64D	11.0
08E3A5	ST25E64D B	11.0
08F5C1	ST93C06B	1.0
08F5C3	ST93C46AB	1.0
08F5F3	ST93CS46B	1.0
08F5C4	ST93C56B	1.0
08F5F4	ST93CS56B	1.0

EPROM

08E0E0	M2716	14.0
08E0E1	M2732A	14.0
08E0E2	M2764A	14.0
08E0F2	TS27C64A M27C64A F	1.0
08E0E3	M27128A F	14.0
08F0E3	M27C128A F	14.0
08E0E4	M27256	14.0
08F0F4	M27C256B	1.0
08F0A5	M87C257 D,P	18.0
08E0F4	TS27C256	1.0
08FFE4	M28F256A-XX B	1.0
08E0E5	M27512	14.0
08F0F5	M27C512 M27V512 B,F	1.0
08FFE5	M28F512-XX B	1.0
08F0F6	M27C1001 M27V101 B,F	1.0
08FFE6	M28F101-XX B	1.0
08FFF6	M27C1000	1.0
08F0F7	M27C2001 M27V201 B,F	1.8

88FFE7	M28F201-XX N	12.0 requires 69-0385
08F0F8	M27C4001 M27V401 B,F	1.0
88FF78	M29F040-XX N,R	12.0 requires 69-0385
08F0F9	M27C801-XXX F	13.0
88F0F9	M27C801-XXX N	13.0
08F0D6	M27C1024-XX F	1.0
08FF66	M28F102-XX P	28.11
08F0D8	M27C4002-XX F	1.0
08FFD9	M27C800-XX F	18.0
08FFDA	M27C160-XXX F	1.0

PLD

08F009	GAL16V8/A/S-XX B,F,D	
08F020	GAL16V8 B AS 10H8	
08F025	GAL16V8 B AS 10L8	
08F018	GAL16V8 B AS 10P8	
08F021	GAL16V8 B AS 12H6	
08F026	GAL16V8 B AS 12L6	
08F017	GAL16V8 B AS 12P6	
08F022	GAL16V8 B AS 14H4	
08F027	GAL16V8 B AS 14L4	
08F016	GAL16V8 B AS 14P4	
08F016	GAL16V8 B AS 14P4	
08F023	GAL16V8 B AS 16H2	
08F035	GAL16V8 B AS 16H8	
08F028	GAL16V8 B AS 16L2	
08F029	GAL16V8 B AS 16L8	
08F014	GAL16V8 B AS 16P2	
08F038	GAL16V8 B AS 16P8	
08F032	GAL16V8 B AS 16R4	
08F031	GAL16V8 B AS 16R6	
08F030	GAL16V8 B AS 16R8	
08F013	GAL16V8 B AS 16RP4	
08F012	GAL16V8 B AS 16RP6	
08F011	GAL16V8 B AS 16RP8	
08F069	GAL20V8/A/S-XX B,F,D	
08F100	GAL20V8 B AS 14H8	
08F051	GAL20V8 B AS 14L8	
08F072	GAL20V8 B AS 14P8	
08F102	GAL20V8 B AS 16H6	
08F052	GAL20V8 B AS 16L6	
08F073	GAL20V8 B AS 16P6	
08F104	GAL20V8 B AS 18H4	
08F053	GAL20V8 B AS 18L4	
08F074	GAL20V8 B AS 18P4	
08F106	GAL20V8 B AS 20H2	
08F107	GAL20V8 B AS 20H8	
08F054	GAL20V8 B AS 20L2	
08F056	GAL20V8 B AS 20L8	
08F075	GAL20V8 B AS 20P2	
08F108	GAL20V8 B AS 20P8	
08F059	GAL20V8 B AS 20R4	
08F058	GAL20V8 B AS 20R6	
08F057	GAL20V8 B AS 20R8	
08F109	GAL20V8 B AS 20RP4	
08F110	GAL20V8 B AS 20RP6	
08F111	GAL20V8 B AS 20RP8	

TEXAS INSTRUMENTS

Code	Device	Rev

EPROM

04E0E0	TMS2516-XX JC	24.0
04F0F1	TMS27(P)C32-XX J,N	1.0
04E0E1	TMS2732A-XX J	14.0
04E0E2	TMS2764	24.0
04F0F2	TMS27C(P)64-XX J,N	1.0
04F0F3	TMS27(P)C128-XX J,N	1.0
04F0F4	TMS27(P)C256-XX J,N	1.0
04F0A5	TMS87C257 D,P	18.0
04F0F5	TMS27(P)C512-XX J,N	1.0
04FFE5	TMS28F512-XX N	1.0
04E0F6	TMS27(P)C010-XX J	1.0
04F0F6	TMS27(P)C010A-XX J	1.0
04FFE6	TMS28F010-XX N	1.0
04F0F7	TMS27(P)C020-XX J	1.0
04F0F8	TMS27(P)C040-XX J	1.0
04E0D6	TMS27C210-XX J	1.0
04F0D6	TMS27C210A-XX J	1.0
04FF66	TMS28F210-XX N	28.11
04F0D8	TMS27C240-XX J	1.0

PLD

04F067	EP630-XX NT	13.0
04F232	EP330-XX N	13.0
04A029	TICPAL16L8-XX JL,N	13.0
04A032	TICPAL16R4-XX JL,N	13.0
04A031	TICPAL16R6-XX JL,N	13.0
04A030	TICPAL16R8-XX JL,N	13.0
04C070	TICPAL22V10Z J,N (T)	13.0
04B070	TICPAL22V10Z J,N (Z)	13.0

TOSHIBA

Code	Device	Rev

EPROM

0EE0E4	TC57256AD-XX	24.0
0EE0F4	TMM27256D-XX	24.0
0EF0F4	TC57H256D-XX	1.0
0EF0E4	TMM27256BD-XX	14.0
0EF0F5	TC57512AD-XX	1.0
0EF0E5	TMM27512AD-XX	14.0
0EF0F6	TC57(H)1000(A)D-XX	1.0
0EFFE6	TC58F010P-XX	1.0
0EFFF6	TC57(H)1001(A)D-XX	1.0
0EF0F8	TC574000D-XX	1.0
0EF0D6	TC57H1024/1025AD-XX	1.0
0EF0D8	TC574096D-XX	1.0
0EFFD8	TC574200D-XX	1.0
0EFFD9	TC578200D-XX	1.0
0EFFDA	TC5716200D-XX	1.0

WAFERSCALE

Code	Device	Rev
EPROM		
0BC0F2	WS27C64F,57C64F-XD	1.0
0BD0F2	WS27C64L-X D,T,P	1.0
0BC0F3	WS27C128F,57C128F-XD	1.0
0BD0F3	WS27C128L-X D,T,P	1.0
0BC0F4	WS27C256F,57C256F-XD	1.0
0BD0F4	WS27C256L-XX D,T,P	1.0
0BC0F5	WS27C512F,57C512F-XD	1.0
0BD0F5	WS27C512L -XX D	1.0
0BD0F6	WS27C010L-XX D,P	1.0
0BD0D6	WS27C210F/LS-XX D	1.0
0BDFB6	WS57C191/291C-XXD,P	1.0
0BDFB7	WS57C43C-XX D,T,S	1.0
0BDFB8	WS57C49C-XX D,P,T	1.0
0BDFB9	WS57C51C-XX D,T	1.0
0BDFBA	WS57C71C-XX D,T	1.0

WINBOND

Code	Device	Rev
EPROM		
0E80F4	W27E257-XX	23.0
0E80F5	W27E512-XX	23.0
0E8FE6	W29EE011-XX	24.1
0E8F76	W29C010-XX	28.11
0E80F6	W27E010-XX	24.0

XICOR

Code	Device	Rev
EEPROM		
0C85A0	X24C00	24.0
0C85A3	X24C01A X24012	24.0
0C95B3	X25010	4.0
0C85A4	X24C02 X24022	24.0
0C95B4	X25020	4.0
0C8ECA	X2804A(I)-XX	1.0
0C85A5	X24C04 X24042	24.0
0C95B5	X25040	4.0
0C85A6	X24C08	24.0
0C95B6	X25080 P	20.0
0C9EC0	X2816B,C D,P	1.0
0C85A7	X24C16 X24164	24.0
0C95B7	X25160 P	20.0
0C85D7	X24165 P	22.0
0C95B8	X25320 P	20.0
0C85D8	X24325 P	22.0
0C8EC2	X2864A D,P	1.0
0C9EC2	X2864B,H D,P	1.0
0C9FC2	X28C64,641 D,P	22.0
0C95B9	X25640/1 P	20.0
0C85D9	X24645 P	22.0
0C95BA	X25128 P	20.0
0C9EC4	X28256 D,P	1.0
0C9FC4	X28C256	1.0
0C9FC5	X28C512 D,P	1.0
0C9FC6	X28C010 D	1.0
SERIAL NOVRAMS		
0C85C1	X24C44/45 P	22.0

Device Specific Information for Orbit 48

ATMEL AT89C51, AT89C52 & AT89C55 microcontrollers.

These devices have three lock bits. They can be programmed by setting SECURITY 1, 2 & 3 in the SECURITY section of the SEQ menu. They correspond to lock bits 1,2 & 3 respectively. Since the device is ALWAYS erased before programming they will be cleared unless set to programmed in this menu. Note that it is a requirement of the programming algorithm that the device should always be erased before programming. Should the limits be set to other than the device size ILLEGAL BIT will be displayed.

Note that lock bit 2, which prevents reading of the device also prevents reading of the silicon ID. Therefore devices which have lock bit 2 programmed will show WRONG PART if a device operation is attempted with Electronic ID enabled.

EEPROMs with Software Data Protection.

The Orbit 48 will automatically unlock protected devices and re-program them. To lock EEPROMs using siftware data protection set SECURITY 0 to PROG int the SEQuence, SECURITY menu.

Serial EEPROMs in 8 pin DIPs.

These must be placed in the programmer socket one pin up from the bottom, i.e. pin 4 of the device goes in pin 23 of the ZIF socket.

Serial EEPROMs with write protection.

The National and STM 93csxx series of EEPROMs has a write protection register into which can be programmed an address where write protection commences. The address to be programmed must be stored in the programmer RAM immediately following the array data. e.g. for the 93CS06 it must be stored at address 20h. The write protection register is cleared automatically during a program operation. To enable programming of the write protection register set SECURITY 0 to PROGram in the SEQuence, SECURITY menu.

An additional on time programmable bit is also provided. Programming of this bit prevents further alteration of the write protect register. To program this bit set SECURITY 1 to PROGram in the SEQuence, SECURITY menu.

Serial EEPROMs with SPI interface

These devices have two block protect bits which may be programmed to select a range of addresses to be protected. To program BP0 set SECURITY 0 to PROGram in the SEQuence, SECURITY menu. To program BP1 set SECURI|TY 1 to PROGram.

Note the programmer will reset these bits to unprogrammed prior to programming the device.

ATMEL AT29C020 & AT29C040(A) PEROM.

These devices, as well as having software data protection, have two 16k boot blocks. These may be secured by the programmer and they then cannot be reprogrammed or erased.

To enable the software data protection set SECURITY 0 to PROGrammed in the SEQuence, SECURITY menu. To protect the low boot block starting at address 0 set SECURITY 1 to PROGram in the SEQuence, SECURITY menu. To protect the high boot block set SECURITY 2 to PROGram in the SEQence,SECURITY menu.

INTEL & PHILIPS Microcontrollers.

These have an encryption array. To program the encryption array the encryption data must be loaded into the programmer RAM immediately following the PROM data. To enable encryption programming set SECURITY 0 to PROGram in the SEQuence, SECURITY menu.

The microcontrollers also have three lock bits. To program lock bit 1 set SECURITY 1 to PROG, for lock bit 2 SECURITY 2 and for lock bit three set SECURITY 3 to PROG.

MICROCHIP 24C32,65 & 24LC32,65

These devices contain 16 blocks which may be secured. Because the Orbit 48 has only eight security bits these are treated in pairs by the programmer. SECURITY 0 controls blocks 0 & 1, SECURITY 1 blocks 2 & 3 etc. Note that it is impossible to secure all blocks within the device. If all blocks are set to be secured block 15 will be left unsecured.

In this device one block can be programmed to be a high endurance block. The programmer requires the start address of the high endurance block to be placed into the programmer RAM immediately following the array data. e.g. for the 24C65 the high endurance address must be loaded at RAM addresses 2000h & 2001h, the high byte being in address 2000h.

MICROCHIP PIC16C54,55,56,57 microcontrollers.

The format used for the MPALC.EXE assembler MUST be the 8-bit Merged Intellec format (INHX8M). The Orbit format MUST be set to INTEL 16 BIT.

The PIC processors have a configuration word to program the oscillator type etc. This resides at address FFFh in the device. It must be loaded into the programmer RAM at address 1FFEh. To program the security function set

SECURITY 0 to program in the SEQuence, SECURITY menu.

Note that due to the requirement of a high impedance drive to the VPP pin these devices must be programmed using the adaptors 101-020E and 101-020F.

MICROCHIP PIC16C61,62,64,65,71,73,74,620,621,622

The format used from the MPALC.EXE assembler MUST be the 8-bit Merged Intellec format (INHX8M). The Eclipse format MUST be set to INTEL 16 BIT.

The PIC processors have a configuration word to program the oscillator type etc. This resides at address 407h in the device. It must be loaded into the programmer RAM at address 400Eh. To program CP0 set SECURITY 0 to program in the SEQuence, SECURITY menu. To program CP1 set SECURITY 1 to PROGram. Note that the 16C61 & 16C71 have only CP0.