

Sheet1

Atmega	48	8	88	8515	8535	16
Lock7						
Lock6						
Lock5		BLB12	BLB12	BLB12	BLB12	BLB12
Lock4		BLB11	BLB11	BLB11	BLB11	BLB11
Lock3		BLB02	BLB02	BLB02	BLB02	BLB02
Lock2		BLB01	BLB01	BLB01	BLB01	BLB01
Lock1	LB2	LB2	LB2	LB2	LB2	LB2
Lock0	LB1	LB1	LB1	LB1	LB1	LB1
Fuse 7	CKDIV8	BODLEVEL	CKDIV8	BODLEVEL	BODLEVEL	BODLEVEL
Fuse 6	CKOUT	BODEN	CKOUT	BODEN	BODEN	BODEN
Fuse 5	SUT1	SUT1	SUT1	SUT1	SUT1	SUT1
Fuse 4	SUT0	SUT0	SUT0	SUT0	SUT0	SUT0
Fuse 3	same as 88	same as 64	0000 EC 0001 0010 Int 8MHz 0011 Int 128k 0100 Low XTAL 0101 Low XTAL 0110 Full Swing 0111 Full Swing 1000 Res 0.4-0.9 1001 Res 0.4-0.9 1010 XTAL 0.9-3 1011 XTAL 0.9-3 1100 XTAL 3-8 1101 XTAL 3-8 1110 XTAL 8- 1111 XTAL 8-	same as 64	same as 64	same as 64
Fuse 2						
Fuse 1						
Fuse 0						
FH 7	RSTDISBL	RSTDISBL	RSTDISBL	S815C	S853C	OCDEN
FH 6	DWEN	WDTON	DWEN	WDTON	WDTON	JTAGEN
FH 5	SPIEN	SPIEN	SPIEN	SPIEN	SPIEN	SPIEN
FH 4	WDTON	CKOPT	WDTON	CKOPT	CKOPT	CKOPT
FH 3	EESAVE	EESAVE	EESAVE	EESAVE	EESAVE	EESAVE
FH 2	BODLEVEL2	BOOTSZ1	BODLEVEL2	BOOTSZ1	BOOTSZ1	BOOTSZ1
FH 1	BODLEVEL1	BOOTSZ0	BODLEVEL1	BOOTSZ0	BOOTSZ0	BOOTSZ0
FH 0	BODLEVEL0	BOOTRST	BODLEVEL0	BOOTRST	BOOTRST	BOOTRST
FE 7						
FE 6						
FE 5						
FE 4						
FE 3						
FE 2			BOOTSZ1			
FE 1			BOOTSZ0			
FE 0	SELFPRGEN		BOOTRST			

Sheet1

162	168	169	32	325	3250	329
BLB12	BLB12	BLB12	BLB12	BLB12	BLB12	BLB12
BLB11	BLB11	BLB11	BLB11	BLB11	BLB11	BLB11
BLB02	BLB02	BLB02	BLB02	BLB02	BLB02	BLB02
BLB01	BLB01	BLB01	BLB01	BLB01	BLB01	BLB01
LB2	LB2	LB2	LB2	LB2	LB2	LB2
LB1	LB1	LB1	LB1	LB1	LB1	LB1
CKDIV8	CKDIV8	CKDIV8	BODLEVEL	CKDIV8	CKDIV8	CKDIV8
CKOUT	CKOUT	CKOUT	BODEN	CKOUT	CKOUT	CKOUT
SUT1	SUT1	SUT1	SUT1	SUT1	SUT1	SUT1
SUT0	SUT0	SUT0	SUT0	SUT0	SUT0	SUT0
0000 EC 0001 0010 Int 8MHz 0011 0100 Low XTAL 0101 Low XTAL 0110 Low XTAL 0111 Low XTAL 1000 Res 0.4-0.9 1001 Res 0.4-0.9 1010 XTAL 0.9-3 1011 XTAL 0.9-3 1100 XTAL 3-8 1101 XTAL 3-8 1110 XTAL 8- 1111 XTAL 8-	same as 88	same as 329	same as 64	same as 329	same as 329	0000 EC 0001 0010 Int 8MHz 0011 0100 0101 0110 Low XTAL 0111 Low XTAL 1000 Res 0.4-0.9 1001 Res 0.4-0.9 1010 XTAL 0.9-3 1011 XTAL 0.9-3 1100 XTAL 3-8 1101 XTAL 3-8 1110 XTAL 8- 1111 XTAL 8-
OCDEN	RSTDISBL	OCDEN	OCDEN	OCDEN	OCDEN	OCDEN
JTAGEN	DWEN	JTAGEN	JTAGEN	JTAGEN	JTAGEN	JTAGEN
SPIEN	SPIEN	SPIEN	SPIEN	SPIEN	SPIEN	SPIEN
WDTON	WDTON	WDTON	CKOPT	WDTON	WDTON	WDTON
EESAVE	EESAVE	EESAVE	EESAVE	EESAVE	EESAVE	EESAVE
BOOTSZ1	BODLEVEL2	BOOTSZ1	BOOTSZ1	BOOTSZ1	BOOTSZ1	BOOTSZ1
BOOTSZ0	BODLEVEL1	BOOTSZ0	BOOTSZ0	BOOTSZ0	BOOTSZ0	BOOTSZ0
BOOTRST	BODLEVEL0	BOOTRST	BOOTRST	BOOTRST	BOOTRST	BOOTRST
M161C						
BODLEVEL2		BODLEVEL2				
BODLEVEL1	BOOTSZ1	BODLEVEL1		BODLEVEL1	BODLEVEL1	BODLEVEL1
BODLEVEL0	BOOTSZ0	BODLEVEL0		BODLEVEL0	BODLEVEL0	BODLEVEL0
	BOOTRST	RESERVED		RSTDISBL	RSTDISBL	RSTDISBL

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3290	64	645	6450	649	6490	128
BLB12	BLB12	BLB12	BLB12	BLB12	BLB12	BLB12
BLB11	BLB11	BLB11	BLB11	BLB11	BLB11	BLB11
BLB02	BLB02	BLB02	BLB02	BLB02	BLB02	BLB02
BLB01	BLB01	BLB01	BLB01	BLB01	BLB01	BLB01
LB2	LB2	LB2	LB2	LB2	LB2	LB2
LB1	LB1	LB1	LB1	LB1	LB1	LB1
CKDIV8	BODLEVEL	CKDIV8	CKDIV8	CKDIV8	CKDIV8	BODLEVEL
CKOUT	BODEN	CKOUT	CKOUT	CKOUT	CKOUT	BODEN
SUT1	SUT1	SUT1	SUT1	SUT1	SUT1	SUT1
SUT0	SUT0	SUT0	SUT0	SUT0	SUT0	SUT0
same as 329	0000 EC 0001 Int 1MHZ 0010 Int 2MHz 0011 Int 4MHz 0100 Int 8MHz 0101 RC .1-.9 0110 RC .9-3 0111 RC 3-8 1000 RC 8-12 1001 Low XTAL 1010 Res 0.4-0.9 1011 Res 0.4-0.9 1100 XTAL 0.9-3 1101 XTAL 0.9-3 1110 XTAL 3-8 1111 XTAL 3-8	same as 329	same as 329	same as 329	same as 329	same as 64
OCDEN	OCDEN	OCDEN	OCDEN	OCDEN	OCDEN	OCDEN
JTAGEN	JTAGEN	JTAGEN	JTAGEN	JTAGEN	JTAGEN	JTAGEN
SPIEN	SPIEN	SPIEN	SPIEN	SPIEN	SPIEN	SPIEN
WDTON	CKOPT	WDTON	WDTON	WDTON	WDTON	CKOPT
EESAVE	EESAVE	EESAVE	EESAVE	EESAVE	EESAVE	EESAVE
BOOTSZ1	BOOTSZ1	BOOTSZ1	BOOTSZ1	BOOTSZ1	BOOTSZ1	BOOTSZ1
BOOTSZ0	BOOTSZ0	BOOTSZ0	BOOTSZ0	BOOTSZ0	BOOTSZ0	BOOTSZ0
BOOTRST	BOOTRST	BOOTRST	BOOTRST	BOOTRST	BOOTRST	BOOTRST
BODLEVEL1		BODLEVEL1	BODLEVEL1	BODLEVEL1	BODLEVEL1	
BODLEVEL0	M103C	BODLEVEL0	BODLEVEL0	BODLEVEL0	BODLEVEL0	M103C
RSTDISBL	WDTON	RSTDISBL	RSTDISBL	RSTDISBL	RSTDISBL	WDTON