

Data Memory

➤ Settings

1. Default FET Options value 0001 hex

Calibration	Name	Value	Unit						
Settings	Configuration								
Advanced Charge Algorithm*	Charging Configuration	0000	hex						
Power	FET Options	0001	hex						
LED Support	Sbs	X							
System Data	Sbs	FET Options							
SBS Configuration	Auth	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Lifetimes	Pow	MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD
	IO C	LSB	PACK_FUSE	SLEEPCHG	CHGFET	CHGIN	CHGSU	OTFET	PCHG_COMM
	GPIC								
	Flag								
	Flag								
	Flag								
		Write to Data Memory							

Changed FET Options value 0060 hex

FET Options	0060	hex							
Sbs	X								
Sbs	FET Options								
Auth	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
Pow	MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	
IO C	LSB	PACK_FUSE	SLEEPCHG	CHGFET	CHGIN	CHGSU	OTFET	PCHG_COMM	
GPIC									
Flag									
Flag									
Flag									
	Write to Data Memory								

2. LED configuration value 00d0 hex

Calibration	Name	Value	Unit						
Settings	GPIO Sealed Access Config	0000	hex						
Advanced Charge Algorithm*	Flag Map Set Up 1	0000	hex						
Power	Flag Map Set Up 2	0000	hex						
LED Support	Flag Map Set Up 3	0000	hex						
System Data	Flag Map Set Up 4	0000	hex						
SBS Configuration	LED Configuration	00d0	hex						
Lifetimes	Term	X							
Protections	Term	LED Configuration							
Permanent Fail	DA C	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	SOC	MSB	RSVD	RSVD	RSVD	RSVD	LEDONFC	BLINKMIDPT	LEDIFCUV
	SOC	LSB	LEDC1	LEDC0	LEDPF1	LEDPF0	LEDMODE	LEDCHG	LEDRCA
	Bala								
	IT G								
	IT G								
	Elev								
		Write to Data Memory							

Changed LED configuration value 00d4 hex

LED Configuration	00d4	hex							
Term	X								
Term	LED Configuration								
DA C	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
SOC	MSB	RSVD	RSVD	RSVD	RSVD	LEDONFC	BLINKMIDPT	LEDIFCUV	
SOC	LSB	LEDC1	LEDC0	LEDPF1	LEDPF0	LEDMODE	LEDCHG	LEDRCA	
Bala									
IT G									
IT G									
Elev									
	Write to Data Memory								

3. Temperature enable value 06 hex

NAME: F10C - Data Memory Settings

Name	Value	Unit
GPIO Sealed Access Config	0000	hex
Flag Map Set Up 1	0000	hex
Flag Map Set Up 2	0000	hex
Flag Map Set Up 3	0000	hex
Flag Map Set Up 4	0000	hex
LED Configuration	00d0	hex
Temperature Enable	06	hex

Temperature Enable

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	TS4	TS3	TS2	TS1
							TSInt

Write to Data Memory

Elevated Deorade Configuration 15 hex

Changed Temperature enable value 03 hex

Temperature Enable 03 hex

Temperature Enable

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	TS4	TS3	TS2	TS1
							TSInt

Write to Data Memory

Elevated Deorade Configuration 15 hex

4. Temperature Mode value 04 hex

Name	Value	Unit
GPIO Sealed Access Config	0000	hex
Flag Map Set Up 1	0000	hex
Flag Map Set Up 2	0000	hex
Flag Map Set Up 3	0000	hex
Flag Map Set Up 4	0000	hex
LED Configuration	00d0	hex
Temperature Enable	06	hex
Temperature Mode	04	hex

Temperature Mode

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	TS4 Mode	TS3 Mode	TS2 Mode	TS1 Mode
							TSInt Mode

Write to Data Memory

Changed temperature mode value 01 hex

Temperature Mode 01 hex

Temperature Mode

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	TS4 Mode	TS3 Mode	TS2 Mode	TS1 Mode
							TSInt Mode

Write to Data Memory

5. DA Configuration value 0012 hex

Name	Value	Unit
Temperature Enable	06	hex
Temperature Mode	04	hex
DA Configuration	0012	hex

DA Configuration								
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	CTEMP1	CTEMP0	RSVD	RSVD	RSVD	RSVD	RSVD	EMSHUT_PEXIT_DIS
LSB	FTEMP	DISCONN_EN	EMSHUT_EN	SLEEP	IN_SYSTEM_SLEEP	NR	CC1	CC0

Write to Data Memory

Changed DA configuration to 0016 hex

DA Configuration		0016	hex																																				
<table border="1"> <thead> <tr> <th colspan="9">DA Configuration</th> </tr> <tr> <th></th> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Bit 3</th> <th>Bit 2</th> <th>Bit 1</th> <th>Bit 0</th> </tr> </thead> <tbody> <tr> <td>MSB</td> <td>CTEMP1</td> <td>CTEMP0</td> <td>RSVD</td> <td>RSVD</td> <td>RSVD</td> <td>RSVD</td> <td>RSVD</td> <td>EMSHUT_PEXIT_DIS</td> </tr> <tr> <td>LSB</td> <td>FTEMP</td> <td>DISCONN_EN</td> <td>EMSHUT_EN</td> <td>SLEEP</td> <td>IN_SYSTEM_SLEEP</td> <td>NR</td> <td>CC1</td> <td>CC0</td> </tr> </tbody> </table>				DA Configuration										Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	MSB	CTEMP1	CTEMP0	RSVD	RSVD	RSVD	RSVD	RSVD	EMSHUT_PEXIT_DIS	LSB	FTEMP	DISCONN_EN	EMSHUT_EN	SLEEP	IN_SYSTEM_SLEEP	NR	CC1	CC0
DA Configuration																																							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0																															
MSB	CTEMP1	CTEMP0	RSVD	RSVD	RSVD	RSVD	RSVD	EMSHUT_PEXIT_DIS																															
LSB	FTEMP	DISCONN_EN	EMSHUT_EN	SLEEP	IN_SYSTEM_SLEEP	NR	CC1	CC0																															

Write to Data Memory

6. SOC Flag A configuration value 0c8c hex

Name	Value	Unit
Temperature Enable	06	hex
Temperature Mode	04	hex
DA Configuration	0012	hex
SOC Flag Config A	0c8c	hex

SOC Flag Config A								
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	RSVD	TCSETVCT	FCSETVCT	RSVD	RSVD
LSB	TCCLEARRSOC	TCSETRSOC	TCCLEARV	TCSETV	TDCLEARRSOC	TDSETRSOC	TDCLEARV	TDSETV

Write to Data Memory

Changed SOC Flag A configuration value 0c23 hex

SOC Flag Config A		0c23	hex																																				
<table border="1"> <thead> <tr> <th colspan="9">SOC Flag Config A</th> </tr> <tr> <th></th> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Bit 3</th> <th>Bit 2</th> <th>Bit 1</th> <th>Bit 0</th> </tr> </thead> <tbody> <tr> <td>MSB</td> <td>RSVD</td> <td>RSVD</td> <td>RSVD</td> <td>RSVD</td> <td>TCSETVCT</td> <td>FCSETVCT</td> <td>RSVD</td> <td>RSVD</td> </tr> <tr> <td>LSB</td> <td>TCCLEARRSOC</td> <td>TCSETRSOC</td> <td>TCCLEARV</td> <td>TCSETV</td> <td>TDCLEARRSOC</td> <td>TDSETRSOC</td> <td>TDCLEARV</td> <td>TDSETV</td> </tr> </tbody> </table>				SOC Flag Config A										Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	MSB	RSVD	RSVD	RSVD	RSVD	TCSETVCT	FCSETVCT	RSVD	RSVD	LSB	TCCLEARRSOC	TCSETRSOC	TCCLEARV	TCSETV	TDCLEARRSOC	TDSETRSOC	TDCLEARV	TDSETV
SOC Flag Config A																																							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0																															
MSB	RSVD	RSVD	RSVD	RSVD	TCSETVCT	FCSETVCT	RSVD	RSVD																															
LSB	TCCLEARRSOC	TCSETRSOC	TCCLEARV	TCSETV	TDCLEARRSOC	TDSETRSOC	TDCLEARV	TDSETV																															

Write to Data Memory

7. SOC Flag configuration B value 008c

Read/Write Data Memory Contents

Name	Value	Unit
SOC Flag Config A	0c8c	hex
SOC Flag Config B	008c	hex

SOC Flag Config B

Bit	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD
LSB	FCCLEARRSOC	FCSETRSOC	FCCLEARV	FCSETV	FDCLEARRSOC	FDSETRSOC	FDCLEARV	FDSETV

Write to Data Memory

Changed SOC Flag B configuration 0023 hex

SOC Flag Config B 0023 hex

SOC Flag Config B

Bit	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD
LSB	FCCLEARRSOC	FCSETRSOC	FCCLEARV	FCSETV	FDCLEARRSOC	FDSETRSOC	FDCLEARV	FDSETV

Write to Data Memory

8. Balancing configuration value 0001 hex

Read/Write Data Memory Contents

Name	Value	Unit
SOC Flag Config A	0c8c	hex
SOC Flag Config B	008c	hex
Balancing Configuration	0001	hex

Balancing Configuration

Bit	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD
LSB	RSVD	RSVD	CBS	CB_RLX_DOD0E W	CB_CHG_DOD0E W	CBR	CBM	CB

Write to Data Memory

Changed Balancing configuration 0007 hex

Balancing Configuration 0007 hex

Balancing Configuration

Bit	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD
LSB	RSVD	RSVD	CBS	CB_RLX_DOD0E W	CB_CHG_DOD0E W	CBR	CBM	CB

Write to Data Memory

SOC Flag Config B 0023 hex

Balancing Configuration 0007 hex

11. Protection configuration value 0000 hex

Protection Configuration										
Enat	Protection Configuration								0000	hex
Enat	Protection Configuration									
Enat		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
Enat	MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	
Enat	LSB	RSVD	RSVD	RSVD	RSVD	RSVD	CUDEP_REQ_CHG	CUV_RECOV_CHG	SUV_MODE	
Enat	Write to Data Memory									

Changed Protection configuration 0002 hex

Protection Configuration

0002 hex

Protection Configuration

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD
LSB	RSVD	RSVD	RSVD	RSVD	RSVD	CUDEP_REQ_CHG	CUV_RECOV_CHG

Write to Data Memory

12.Enabled Protections A value 03 hex

Protection		0000	hex
Protection Configuration		0000	hex
Enabled Protections A		03	hex
Enabled Protections A			
MSB	AOLDL	RSVD_1	OCD2
OCD1	OCC2	OCC1	COV
CUV			

Changed Enabled Protections A value ff hex

Enabled Protections A		ff	hex
Enat	X Enabled Protections A		
Enat	Bit 7	Bit 6	Bit 5
Enat	Bit 4	Bit 3	Bit 2
Enat	Bit 1	Bit 0	
Enat	MSB	AOLDL	RSVD_1
Enat		OCD2	OCD1
Enat		OCC2	OCC1
Enat		COV	CUV
Enat	Write to Data Memory		

13.Enabled Protections B value 03 hex

Protection		Value	Hex
Protection Configuration		0000	hex
Enabled Protections A		03	hex
Enabled Protections B		0a	hex

Enabled Protections B								
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	RSVD	CUVC	OTD	OTC	ASCDL	RSVD_1	ASCCL	RSVD_1

Write to Data Memory

Changed Enabled Protections B 7f hex

Enabled Protections B					7f		hex		
Enat	X								
Enat	Enabled Protections B								
Permanent		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Enat	MSB	RSVD	CUVC	OTD	OTC	ASCDL	RSVD_1	ASCCL	RSVD_1
Enat									
Enat	✚ Write to Data Memory								
Enat									

14.Enabled Protections C value 00 hex

Protection

Protection Configuration	0000	hex
Enabled Protections A	03	hex
Enabled Protections B	0a	hex
Enabled Protections C	00	hex

Enabled Protections C

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
MSB	CHGC	OC	RSVD	CTO	RSVD	PTO	OTF

Write to Data Memory

Changed Enabled Protections C d5 hex

Enabled Protections C					d5		hex		
Enal	X								
Permane	Enabled Protections C								
Enal		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Enal									
Enal	MSB	CHGC	OC	RSVD	CTO	RSVD	PTO	HWDF	OTF
Enal									
AFE	Write to Data Memory								

15. Enabled Protections D value 00 hex

Protection									
Protection Configuration					0000		hex		
Enabled Protections A					03		hex		
Enabled Protections B					0a		hex		
Enabled Protections C					00		hex		
Enabled Protections D					00		hex		
X Enabled Protections D									
Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0									
MSB		RSVD	RSVD	OCDL	COVL	UTD	UTC	PCHGC	CHGV
Write to Data Memory									

Changed Enabled Protections D 3f hex

Enabled Protections D									3f	hex
X Enabled Protections D										
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
		MSB	RSVD	RSVD	OCDL	COVL	UTD	UTC	PCHGC	CHGV
Write to Data Memory										