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"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Discontinued at Digi-Key
Core Processor	ARM® Cortex®-M4F
Core Size	32-Bit Single-Core
Speed	48MHz
Connectivity	EI/EMI, I²C, IrDA, SmartCard, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT
Number of I/O	85
Program Memory Size	64KB (64K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	32K x 8
Voltage - Supply (Vcc/Vdd)	1.98V ~ 3.8V
Data Converters	A/D 8x12b; D/A 2x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	100-LQFP
Supplier Device Package	100-LQFP (14x14)
Purchase URL	https://www.e-xfl.com/product-detail/silicon-labs/efm32wg280f64-qfp100t

2.1.11 TFT Direct Drive

The EBI contains a TFT controller which can drive a TFT via a 565 RGB interface. The TFT controller supports programmable display and port sizes and offers accurate control of frequency and setup and hold timing. Direct Drive is supported for TFT displays which do not have their own frame buffer. In that case TFT Direct Drive can transfer data from either on-chip memory or from an external memory device to the TFT at low CPU load. Automatic alpha-blending and masking is also supported for transfers through the EBI interface.

2.1.12 Inter-Integrated Circuit Interface (I²C)

The I²C module provides an interface between the MCU and a serial I²C-bus. It is capable of acting as both a master and a slave, and supports multi-master buses. Both standard-mode, fast-mode and fast-mode plus speeds are supported, allowing transmission rates all the way from 10 kbit/s up to 1 Mbit/s. Slave arbitration and timeouts are also provided to allow implementation of an SMBus compliant system. The interface provided to software by the I²C module, allows both fine-grained control of the transmission process and close to automatic transfers. Automatic recognition of slave addresses is provided in all energy modes.

2.1.13 Universal Synchronous/Asynchronous Receiver/Transmitter (USART)

The Universal Synchronous Asynchronous serial Receiver and Transmitter (USART) is a very flexible serial I/O module. It supports full duplex asynchronous UART communication as well as RS-485, SPI, MicroWire and 3-wire. It can also interface with ISO7816 SmartCards, IrDA and I2S devices.

2.1.14 Pre-Programmed UART Bootloader

The bootloader presented in application note AN0003 is pre-programmed in the device at factory. Auto-baud and destructive write are supported. The autobaud feature, interface and commands are described further in the application note.

2.1.15 Universal Asynchronous Receiver/Transmitter (UART)

The Universal Asynchronous serial Receiver and Transmitter (UART) is a very flexible serial I/O module. It supports full- and half-duplex asynchronous UART communication.

2.1.16 Low Energy Universal Asynchronous Receiver/Transmitter (LEUART)

The unique LEUARTTM, the Low Energy UART, is a UART that allows two-way UART communication on a strict power budget. Only a 32.768 kHz clock is needed to allow UART communication up to 9600 baud/s. The LEUART includes all necessary hardware support to make asynchronous serial communication possible with minimum of software intervention and energy consumption.

2.1.17 Timer/Counter (TIMER)

The 16-bit general purpose Timer has 3 compare/capture channels for input capture and compare/Pulse-Width Modulation (PWM) output. TIMERO also includes a Dead-Time Insertion module suitable for motor control applications.

2.1.18 Real Time Counter (RTC)

The Real Time Counter (RTC) contains a 24-bit counter and is clocked either by a 32.768 kHz crystal oscillator, or a 32.768 kHz RC oscillator. In addition to energy modes EM0 and EM1, the RTC is also

Figure 2.2. EFM32WG280 Memory Map with largest RAM and Flash sizes

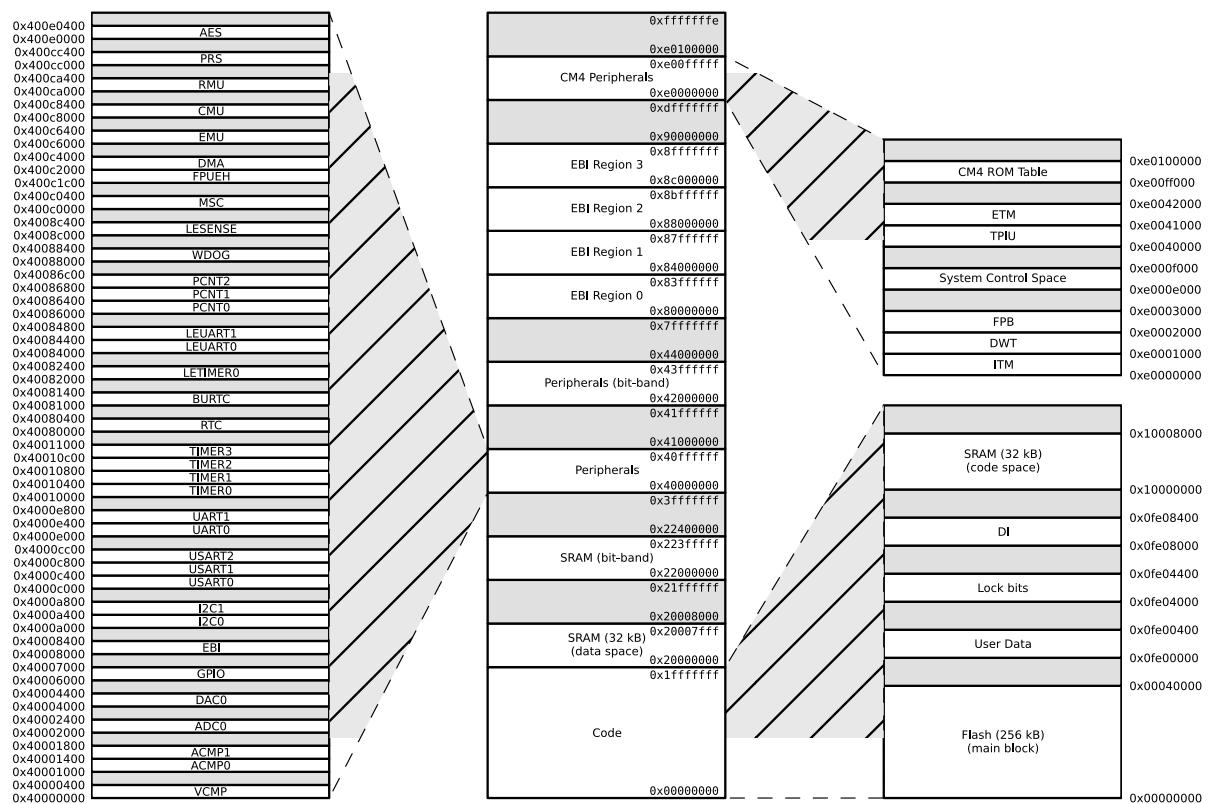


Figure 3.3. EM1 Current consumption with all peripheral clocks disabled and HFRCO running at 21MHz

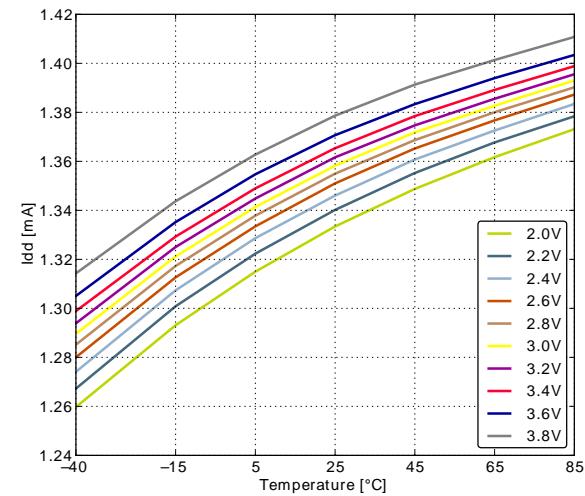
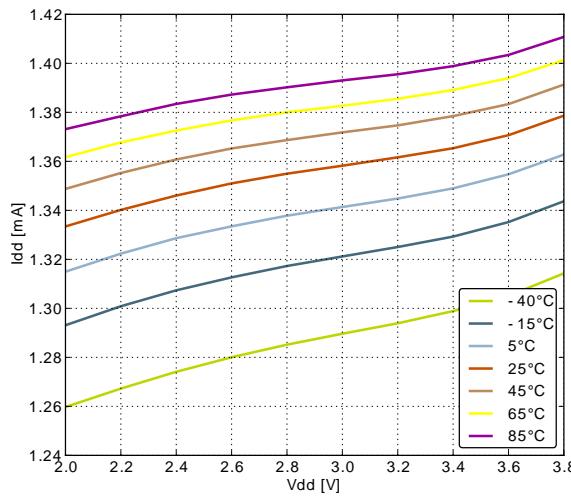
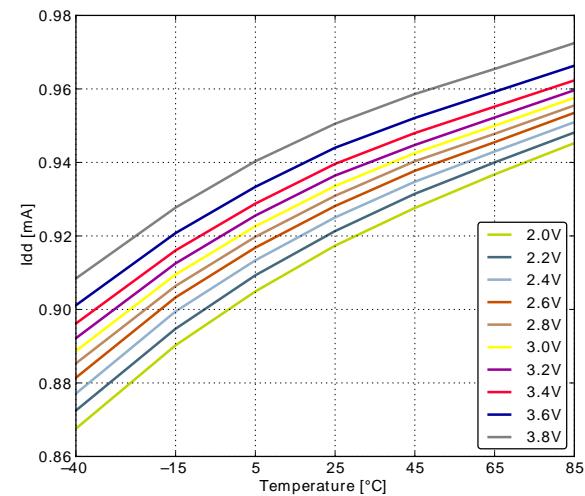
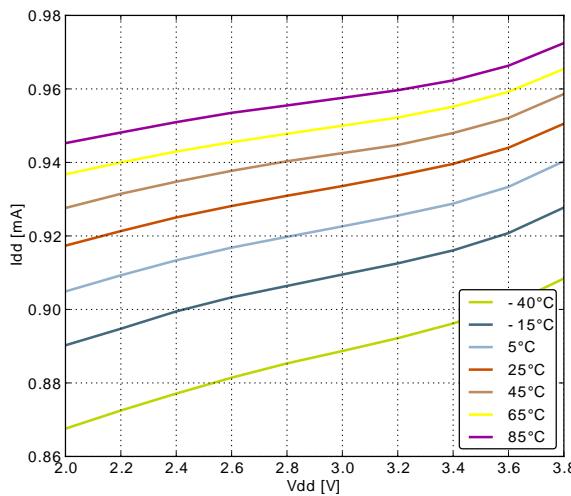


Figure 3.4. EM1 Current consumption with all peripheral clocks disabled and HFRCO running at 14MHz



3.6 Power Management

The EFM32WG requires the AVDD_x, VDD_DREG and IOVDD_x pins to be connected together (with optional filter) at the PCB level. For practical schematic recommendations, please see the application note, "AN0002 EFM32 Hardware Design Considerations".

Table 3.6. Power Management

Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _{BODextthr-}	BOD threshold on falling external supply voltage		1.74		1.96	V
V _{BODextthr+}	BOD threshold on rising external supply voltage			1.85	1.98	V
V _{PORthr+}	Power-on Reset (POR) threshold on rising external supply voltage				1.98	V
t _{RESET}	Delay from reset is released until program execution starts	Applies to Power-on Reset, Brown-out Reset and pin reset.		163		μs
C _{DECOPPLE}	Voltage regulator decoupling capacitor.	X5R capacitor recommended. Apply between DECOUPLE pin and GROUND		1		μF

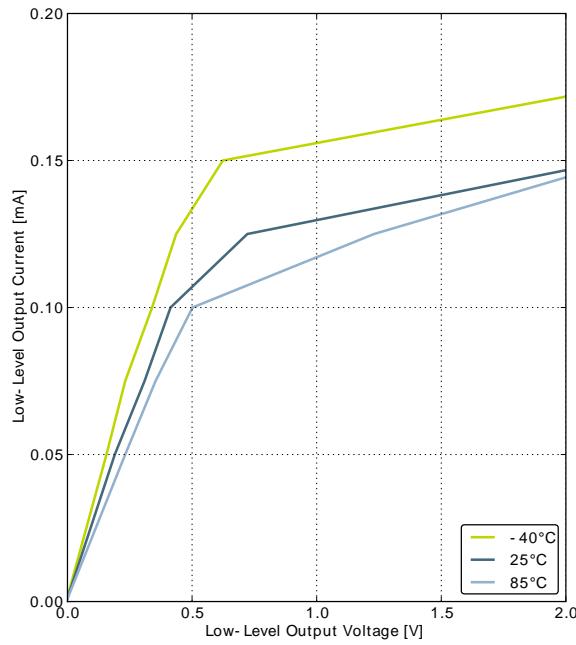
3.7 Flash

Table 3.7. Flash

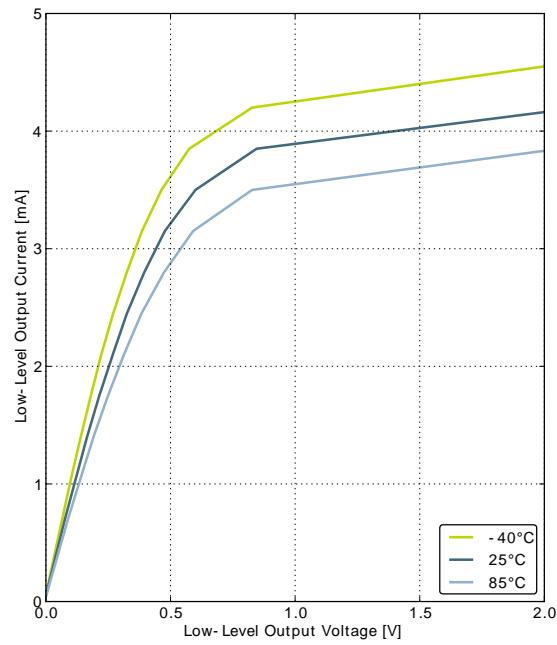
Symbol	Parameter	Condition	Min	Typ	Max	Unit
EC _{FLASH}	Flash erase cycles before failure		20000			cycles
RET _{FLASH}	Flash data retention	T _{AMB} <150°C	10000			h
		T _{AMB} <85°C	10			years
		T _{AMB} <70°C	20			years
t _{W_PROG}	Word (32-bit) programming time		20			μs
t _{PERASE}	Page erase time		20	20.4	20.8	ms
t _{DERASE}	Device erase time		40	40.8	41.6	ms
I _{ERASE}	Erase current				7 ¹	mA
I _{WRITE}	Write current				7 ¹	mA
V _{FLASH}	Supply voltage during flash erase and write		1.98		3.8	V

¹Measured at 25°C

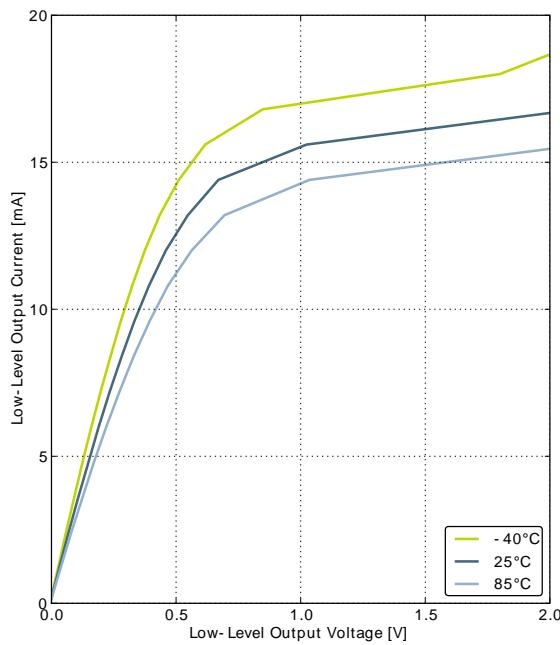
Symbol	Parameter	Condition	Min	Typ	Max	Unit
		Sinking 20 mA, V _{DD} =3.0 V, GPIO_Px_CTRL DRIVEMODE = HIGH			0.25V _{DD}	V
I _{IOLEAK}	Input leakage current	High Impedance IO connected to GROUND or Vdd		±0.1	±100	nA
R _{PU}	I/O pin pull-up resistor			40		kOhm
R _{PD}	I/O pin pull-down resistor			40		kOhm
R _{IOESD}	Internal ESD series resistor			200		Ohm
t _{IOGLITCH}	Pulse width of pulses to be removed by the glitch suppression filter		10		50	ns
t _{IOOF}	Output fall time	GPIO_Px_CTRL DRIVEMODE = LOWEST and load capacitance C _L =12.5-25pF.	20+0.1C _L		250	ns
		GPIO_Px_CTRL DRIVEMODE = LOW and load capacitance C _L =350-600pF	20+0.1C _L		250	ns
V _{IOHYST}	I/O pin hysteresis (V _{IOTHRI} - V _{IOTHR-})	V _{DD} = 1.98 - 3.8 V	0.10V _{DD}			V

Figure 3.11. Typical Low-Level Output Current, 2V Supply Voltage

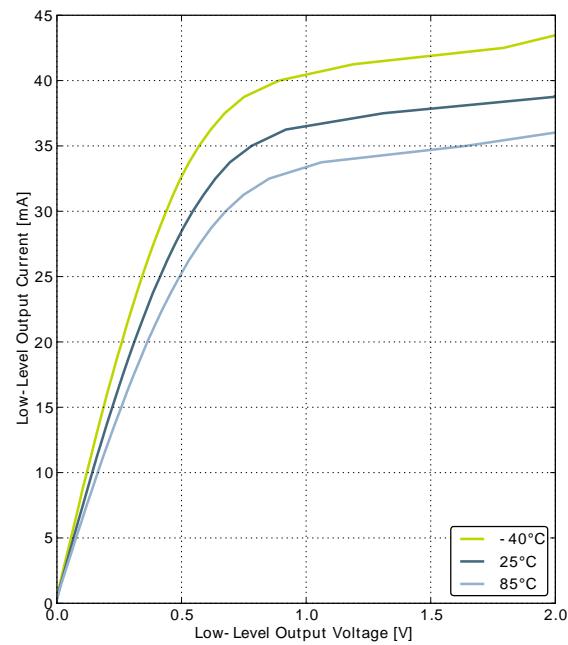
GPIO_Px_CTRL DRIVEMODE = LOWEST



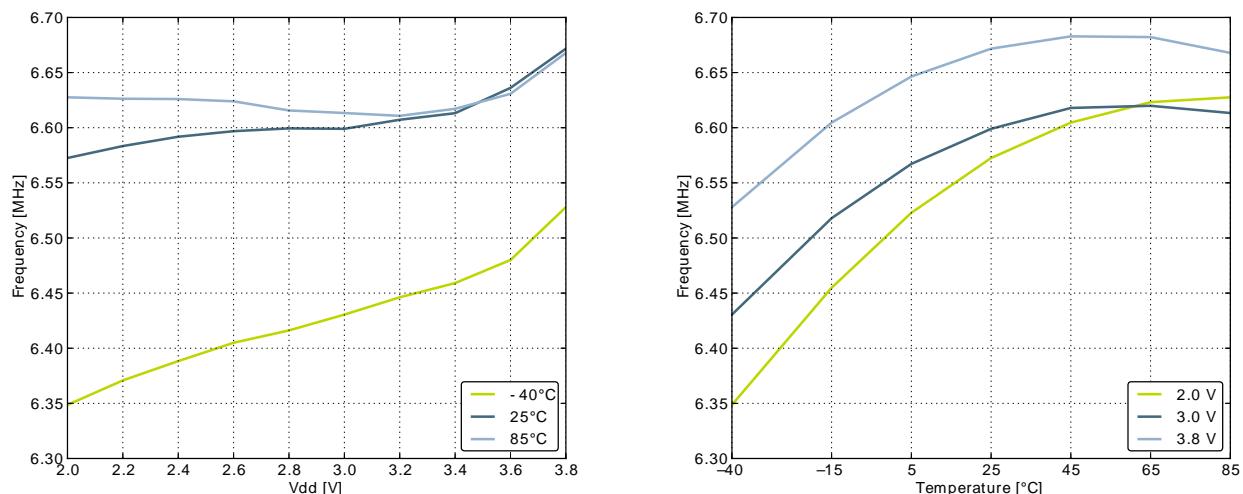
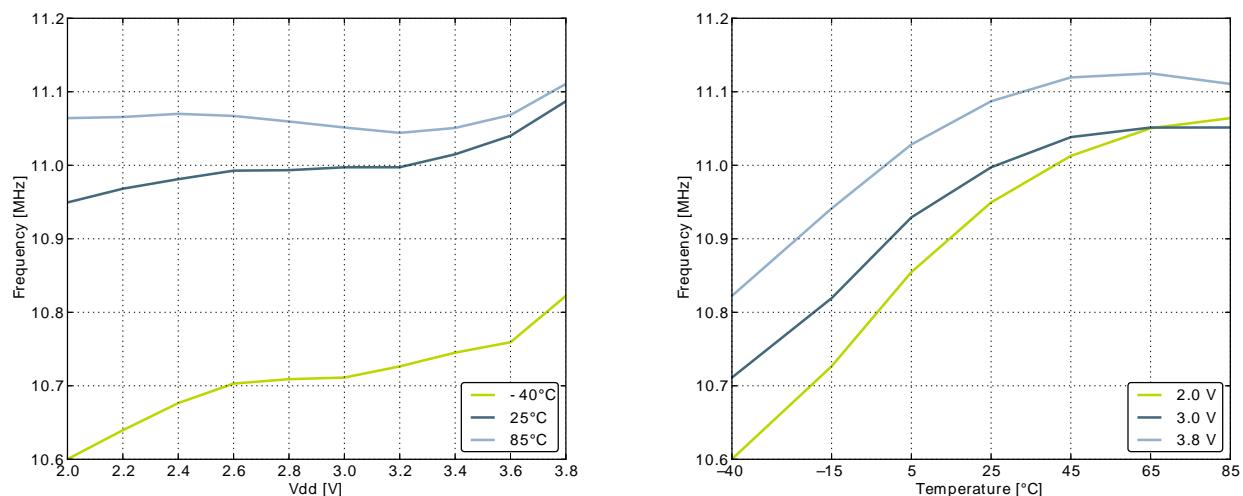
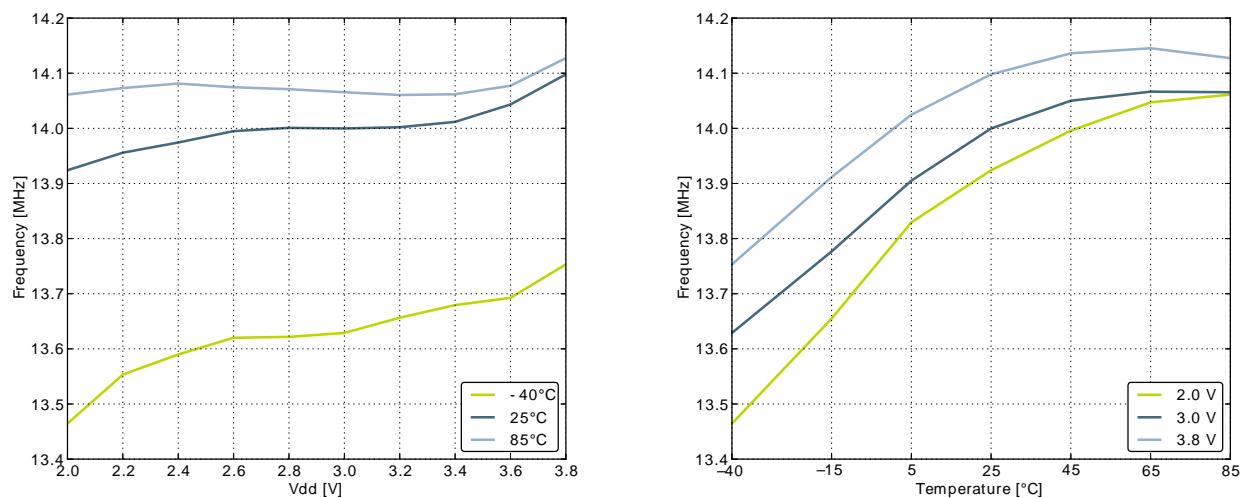
GPIO_Px_CTRL DRIVEMODE = LOW



GPIO_Px_CTRL DRIVEMODE = STANDARD

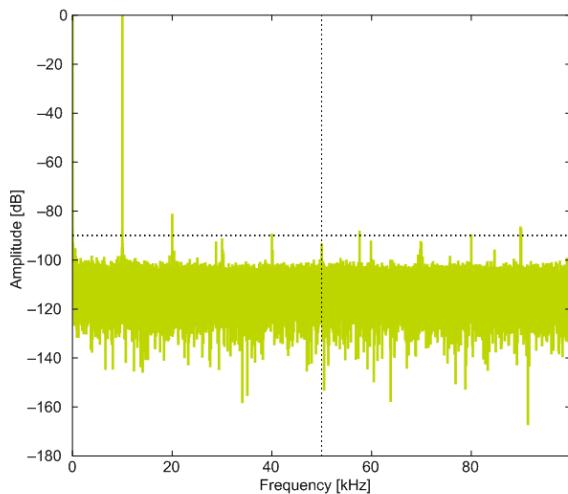


GPIO_Px_CTRL DRIVEMODE = HIGH

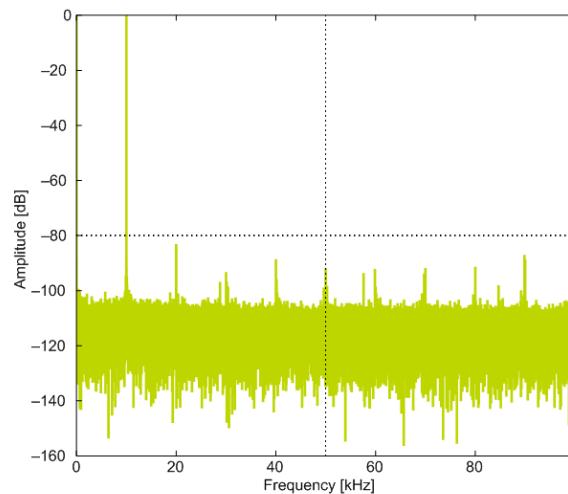
Figure 3.19. Calibrated HFRCO 7 MHz Band Frequency vs Supply Voltage and Temperature**Figure 3.20. Calibrated HFRCO 11 MHz Band Frequency vs Supply Voltage and Temperature****Figure 3.21. Calibrated HFRCO 14 MHz Band Frequency vs Supply Voltage and Temperature**

3.10.1 Typical performance

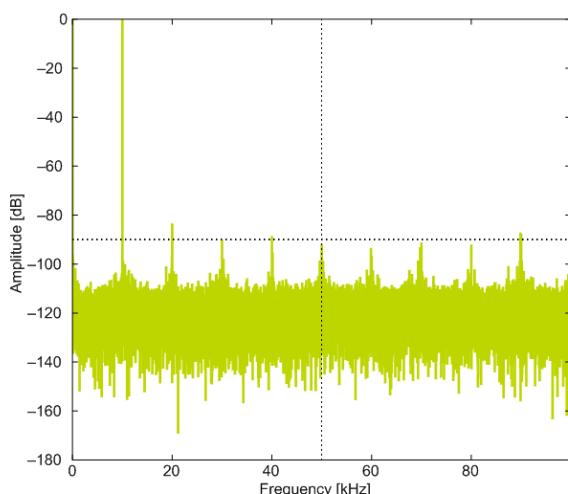
Figure 3.26. ADC Frequency Spectrum, $Vdd = 3V$, Temp = $25^{\circ}C$



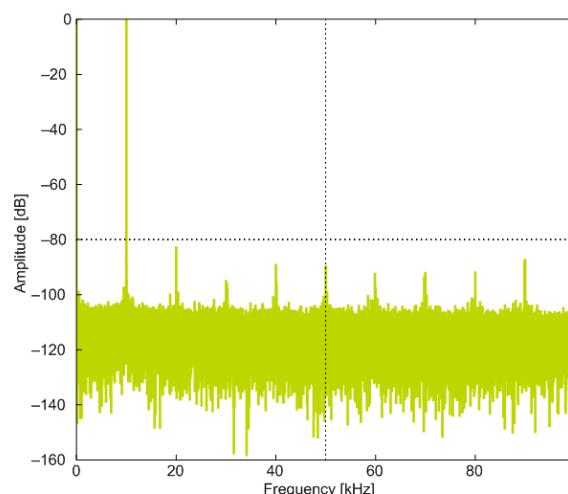
1.25V Reference



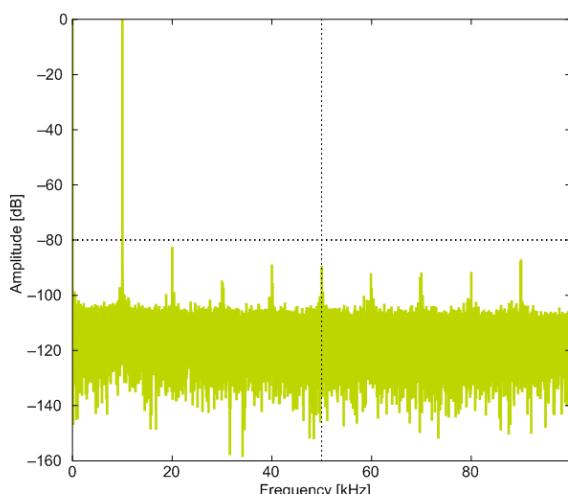
2.5V Reference



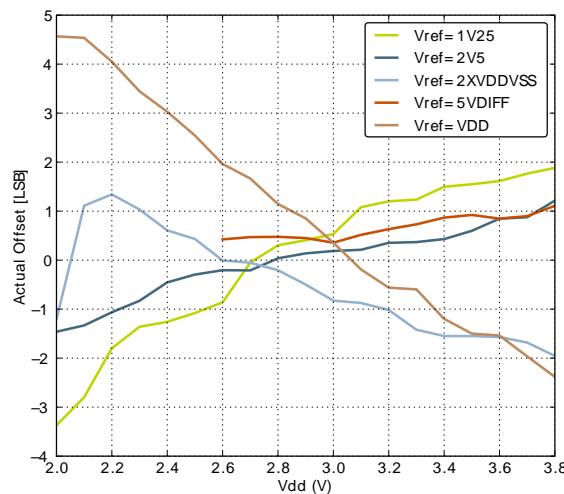
2XVDDVSS Reference



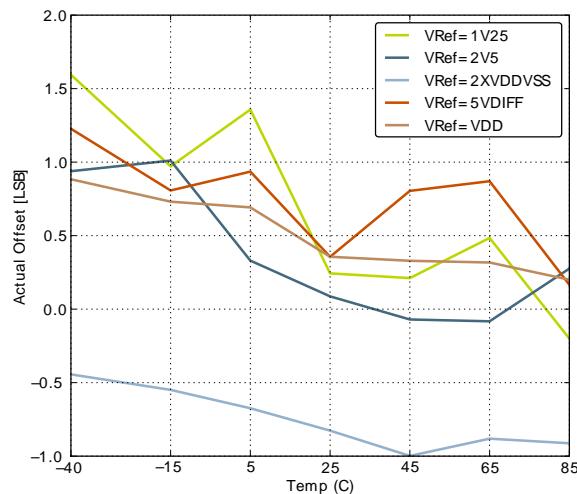
5VDIFF Reference



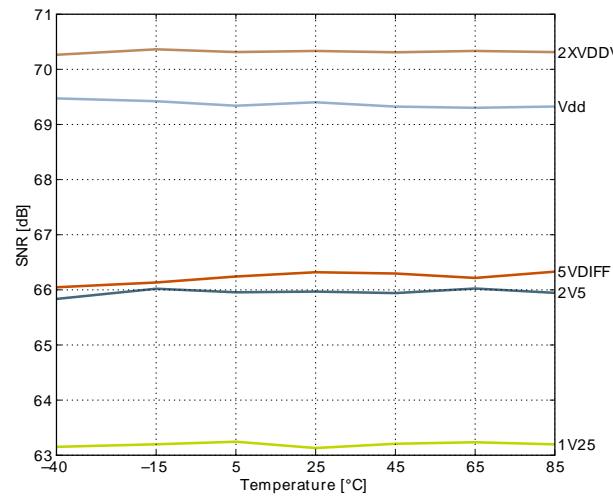
VDD Reference

Figure 3.29. ADC Absolute Offset, Common Mode = Vdd /2

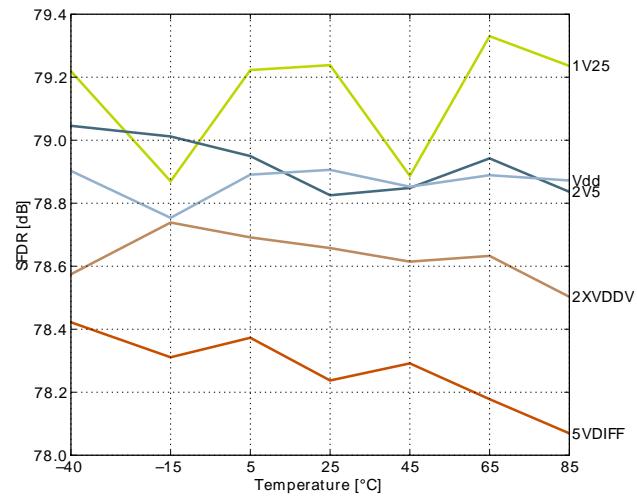
Offset vs Supply Voltage, Temp = 25°C



Offset vs Temperature, Vdd = 3V

Figure 3.30. ADC Dynamic Performance vs Temperature for all ADC References, Vdd = 3V

Signal to Noise Ratio (SNR)



Spurious-Free Dynamic Range (SFDR)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
		(OPA2)BIASPROG=0x0, (OPA2)HALFBIAS=0x1, Unity Gain		13	25	µA
G_{OL}	Open Loop Gain	(OPA2)BIASPROG=0xF, (OPA2)HALFBIAS=0x0		101		dB
		(OPA2)BIASPROG=0x7, (OPA2)HALFBIAS=0x1		98		dB
		(OPA2)BIASPROG=0x0, (OPA2)HALFBIAS=0x1		91		dB
GBW_{OPAMP}	Gain Bandwidth Product	(OPA2)BIASPROG=0xF, (OPA2)HALFBIAS=0x0		6.1		MHz
		(OPA2)BIASPROG=0x7, (OPA2)HALFBIAS=0x1		1.8		MHz
		(OPA2)BIASPROG=0x0, (OPA2)HALFBIAS=0x1		0.25		MHz
PM_{OPAMP}	Phase Margin	(OPA2)BIASPROG=0xF, (OPA2)HALFBIAS=0x0, $C_L=75\text{ pF}$		64		°
		(OPA2)BIASPROG=0x7, (OPA2)HALFBIAS=0x1, $C_L=75\text{ pF}$		58		°
		(OPA2)BIASPROG=0x0, (OPA2)HALFBIAS=0x1, $C_L=75\text{ pF}$		58		°
R_{INPUT}	Input Resistance			100		Mohm
R_{LOAD}	Load Resistance		200			Ohm
I_{LOAD_DC}	DC Load Current				11	mA
V_{INPUT}	Input Voltage	OPAxHCMDIS=0	V_{SS}		V_{DD}	V
		OPAxHCMDIS=1	V_{SS}		$V_{DD}-1.2$	V
V_{OUTPUT}	Output Voltage		V_{SS}		V_{DD}	V
V_{OFFSET}	Input Offset Voltage	Unity Gain, $V_{SS} < V_{in} < V_{DD}$, OPAxHCMDIS=0	-13	0	11	mV
		Unity Gain, $V_{SS} < V_{in} < V_{DD}-1.2$, OPAxHCMDIS=1		1		mV
V_{OFFSET_DRIFT}	Input Offset Voltage Drift				0.02	$\text{mV}/^\circ\text{C}$
SR_{OPAMP}	Slew Rate	(OPA2)BIASPROG=0xF, (OPA2)HALFBIAS=0x0		3.2		$\text{V}/\mu\text{s}$
		(OPA2)BIASPROG=0x7, (OPA2)HALFBIAS=0x1		0.8		$\text{V}/\mu\text{s}$
		(OPA2)BIASPROG=0x0, (OPA2)HALFBIAS=0x1		0.1		$\text{V}/\mu\text{s}$
N_{OPAMP}	Voltage Noise	$V_{out}=1\text{V}$, RESSEL=0, 0.1 Hz< f <10 kHz, OPAx-HCMDIS=0		101		μV_{RMS}
		$V_{out}=1\text{V}$, RESSEL=0, 0.1 Hz< f <10 kHz, OPAx-HCMDIS=1		141		μV_{RMS}

Symbol	Parameter	Condition	Min	Typ	Max	Unit
		V _{out} =1V, RESSEL=0, 0.1 Hz<f<1 MHz, OPAxHCMDIS=0		196		µV _{RMS}
		V _{out} =1V, RESSEL=0, 0.1 Hz<f<1 MHz, OPAxHCMDIS=1		229		µV _{RMS}
		RESSEL=7, 0.1 Hz<f<10 kHz, OPAxHCMDIS=0		1230		µV _{RMS}
		RESSEL=7, 0.1 Hz<f<10 kHz, OPAxHCMDIS=1		2130		µV _{RMS}
		RESSEL=7, 0.1 Hz<f<1 MHz, OPAxHCMDIS=0		1630		µV _{RMS}
		RESSEL=7, 0.1 Hz<f<1 MHz, OPAxHCMDIS=1		2590		µV _{RMS}

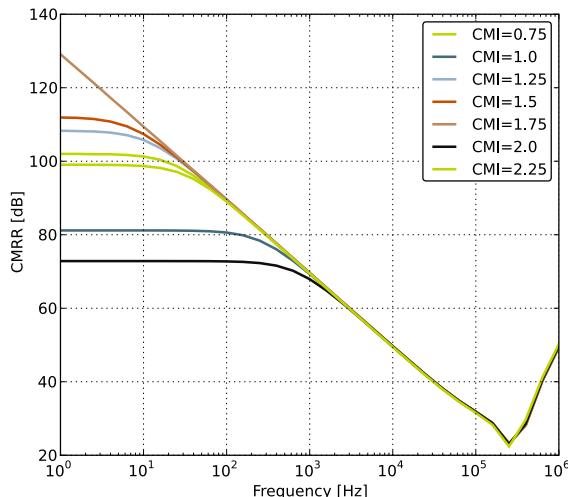
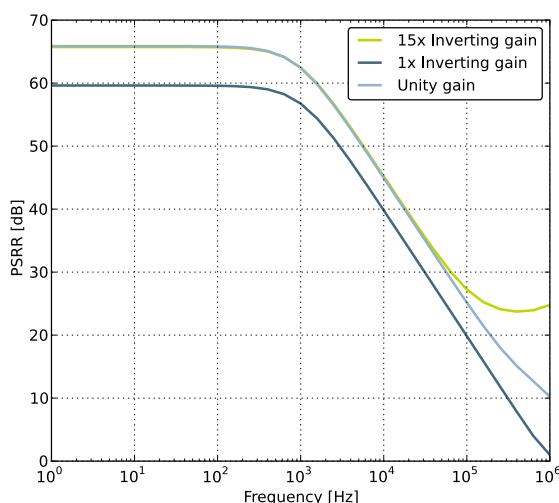
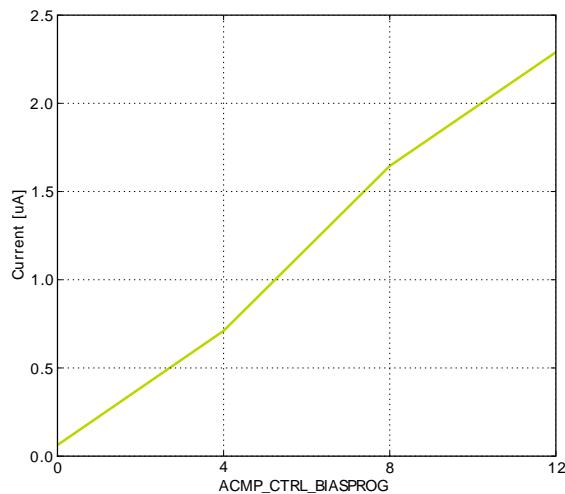
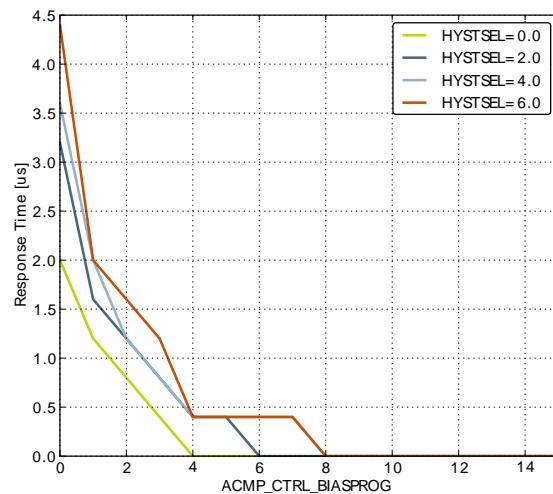
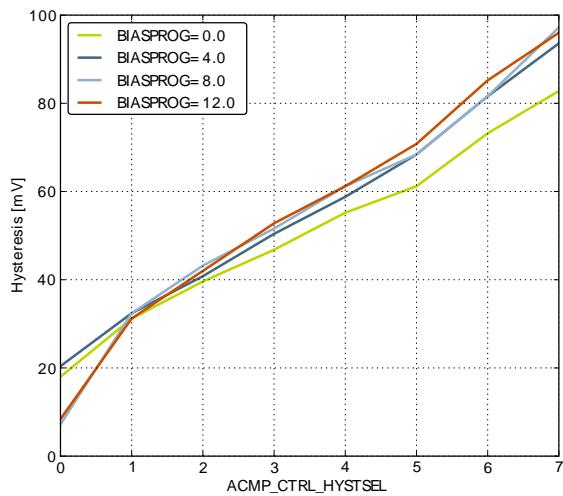
Figure 3.32. OPAMP Common Mode Rejection Ratio**Figure 3.33. OPAMP Positive Power Supply Rejection Ratio**

Figure 3.37. ACMP Characteristics, Vdd = 3V, Temp = 25°C, FULLBIAS = 0, HALFBIAS = 1

Current consumption, HYSTSEL = 4



Response time



Hysteresis

3.14 Voltage Comparator (VCMP)

Table 3.19. VCMP

Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _{VCMPIN}	Input voltage range			V _{DD}		V
V _{VCMPCM}	VCMP Common Mode voltage range			V _{DD}		V
I _{VCMP}	Active current	BIASPROG=0b0000 and HALFBIAS=1 in VCMPn_CTRL register		0.3	0.6	µA
		BIASPROG=0b1111 and HALFBIAS=0 in VCMPn_CTRL register. LPREF=0.		22	35	µA
t _{VCMPREF}	Startup time reference generator	NORMAL		10		µs
V _{VCMPOFFSET}	Offset voltage	Single ended		10		mV
		Differential		10		mV
V _{VCMPHYST}	VCMP hysteresis			61	210	mV
t _{VCMPSTART}	Startup time				10	µs

The V_{DD} trigger level can be configured by setting the TRIGLEVEL field of the VCMP_CTRL register in accordance with the following equation:

VCMP Trigger Level as a Function of Level Setting

$$V_{DD \text{ Trigger Level}} = 1.667V + 0.034 \times \text{TRIGLEVEL} \quad (3.2)$$

3.15 EBI

Figure 3.38. EBI Write Enable Timing

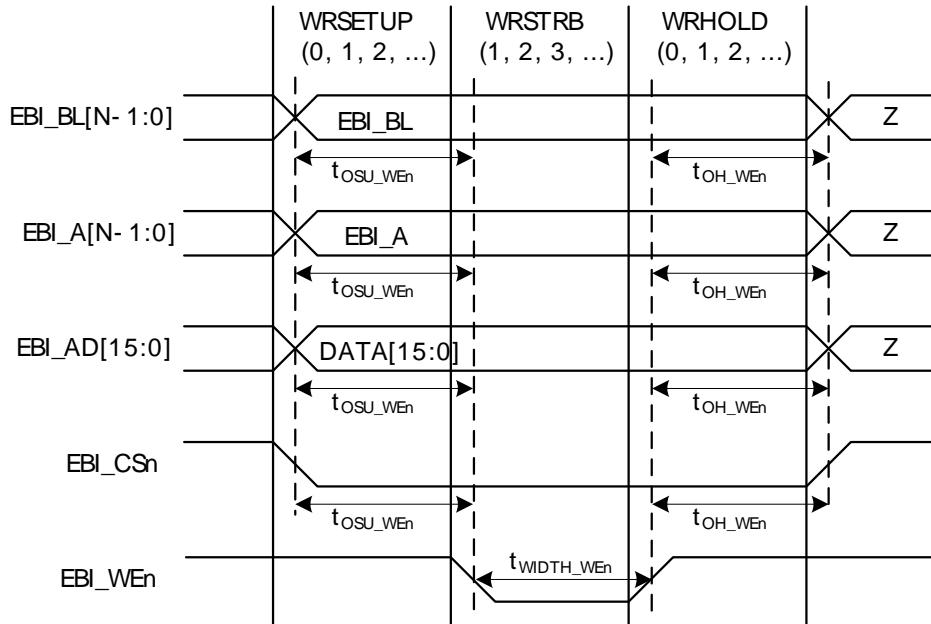
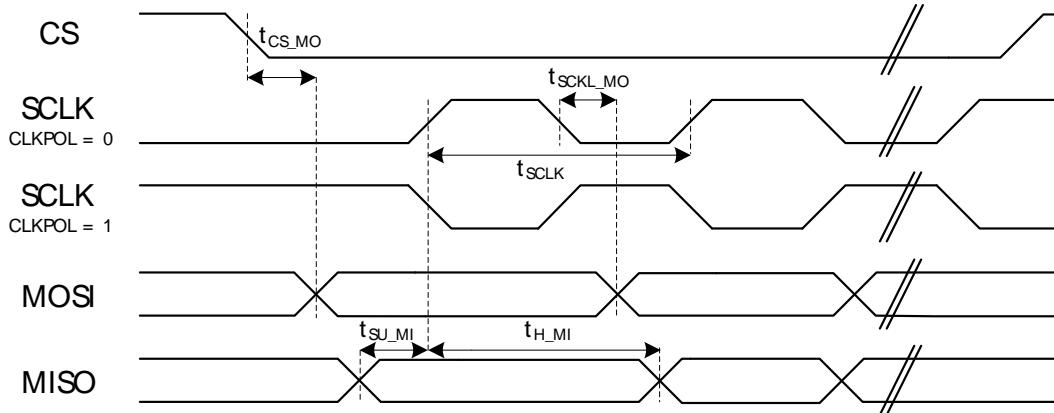


Table 3.27. I2C Fast-mode Plus (Fm+)

Symbol	Parameter	Min	Typ	Max	Unit
f_{SCL}	SCL clock frequency	0		1000 ¹	kHz
t_{LOW}	SCL clock low time	0.5			μs
t_{HIGH}	SCL clock high time	0.26			μs
$t_{SU,DAT}$	SDA set-up time	50			ns
$t_{HD,DAT}$	SDA hold time	8			ns
$t_{SU,STA}$	Repeated START condition set-up time	0.26			μs
$t_{HD,STA}$	(Repeated) START condition hold time	0.26			μs
$t_{SU,STO}$	STOP condition set-up time	0.26			μs
t_{BUF}	Bus free time between a STOP and a START condition	0.5			μs

¹For the minimum HPERCLK frequency required in Fast-mode Plus, see the I2C chapter in the EFM32WG Reference Manual.

3.17 USART SPI

Figure 3.43. SPI Master Timing**Table 3.28. SPI Master Timing**

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$t_{SCLK}^{1,2}$	SCLK period		$2 * t_{HPER-CLK}$			ns
$t_{CS_MO}^{1,2}$	CS to MOSI		-2.00		2.00	ns
$t_{SCLK_MO}^{1,2}$	SCLK to MOSI		-1.00		3.00	ns
$t_{SU_MI}^{1,2}$	MISO setup time	IOVDD = 3.0 V	36.00			ns
$t_{H_MI}^{1,2}$	MISO hold time		-6.00			ns

¹Applies for both CLKPHA = 0 and CLKPHA = 1 (figure only shows CLKPHA = 0)

²Measurement done at 10% and 90% of V_{DD} (figure shows 50% of V_{DD})

LQFP100 Pin# and Name		Pin Alternate Functionality / Description				
Pin #	Pin Name	Analog	EBI	Timers	Communication	Other
						ETM_TD0 #3
4	PA3		EBI_AD12 #0/1/2	TIM0_CDTI0 #0	U0_TX #2	LES_ALTEX2 #0 ETM_TD1 #3
5	PA4		EBI_AD13 #0/1/2	TIM0_CDTI1 #0	U0_RX #2	LES_ALTEX3 #0 ETM_TD2 #3
6	PA5		EBI_AD14 #0/1/2	TIM0_CDTI2 #0	LEU1_TX #1	LES_ALTEX4 #0 ETM_TD3 #3
7	PA6		EBI_AD15 #0/1/2		LEU1_RX #1	ETM_TCLK #3 GPIO_EM4WU1
8	IOVDD_0	Digital IO power supply 0.				
9	PB0		EBI_A16 #0/1/2	TIM1_CC0 #2		
10	PB1		EBI_A17 #0/1/2	TIM1_CC1 #2		
11	PB2		EBI_A18 #0/1/2	TIM1_CC2 #2		
12	PB3		EBI_A19 #0/1/2	PCNT1_S0IN #1	US2_TX #1	
13	PB4		EBI_A20 #0/1/2	PCNT1_S1IN #1	US2_RX #1	
14	PB5		EBI_A21 #0/1/2		US2_CLK #1	
15	PB6		EBI_A22 #0/1/2		US2_CS #1	
16	VSS	Ground				
17	IOVDD_1	Digital IO power supply 1.				
18	PC0	ACMP0_CH0 DAC0_OUT0ALT #0/ OPAMP_OUT0ALT	EBI_A23 #0/1/2	TIM0_CC1 #4 PCNT0_S0IN #2	US0_TX #5 US1_TX #0 I2C0_SDA #4	LES_CH0 #0 PRS_CH2 #0
19	PC1	ACMP0_CH1 DAC0_OUT0ALT #1/ OPAMP_OUT0ALT	EBI_A24 #0/1/2	TIM0_CC2 #4 PCNT0_S1IN #2	US0_RX #5 US1_RX #0 I2C0_SCL #4	LES_CH1 #0 PRS_CH3 #0
20	PC2	ACMP0_CH2 DAC0_OUT0ALT #2/ OPAMP_OUT0ALT	EBI_A25 #0/1/2	TIM0_CDTI0 #4	US2_TX #0	LES_CH2 #0
21	PC3	ACMP0_CH3 DAC0_OUT0ALT #3/ OPAMP_OUT0ALT	EBI_NANDREn #0/1/2	TIM0_CDTI1 #4	US2_RX #0	LES_CH3 #0
22	PC4	ACMP0_CH4 DAC0_P0 / OPAMP_P0	EBI_A26 #0/1/2	TIM0_CDTI2 #4 LETIM0_OUT0 #3 PCNT1_S0IN #0	US2_CLK #0 I2C1_SDA #0	LES_CH4 #0
23	PC5	ACMP0_CH5 DAC0_N0 / OPAMP_N0	EBI_NANDWE #0/1/2	LETIM0_OUT1 #3 PCNT1_S1IN #0	US2_CS #0 I2C1_SCL #0	LES_CH5 #0
24	PB7	LFXTAL_P		TIM1_CC0 #3	US0_TX #4 US1_CLK #0	
25	PB8	LFXTAL_N		TIM1_CC1 #3	US0_RX #4 US1_CS #0	
26	PA7		EBI_CSTFT #0/1/2			
27	PA8		EBI_DCLK #0/1/2	TIM2_CC0 #0		
28	PA9		EBI_DTEN #0/1/2	TIM2_CC1 #0		
29	PA10		EBI_VSNC #0/1/2	TIM2_CC2 #0		
30	PA11		EBI_HSNC #0/1/2			
31	IOVDD_2	Digital IO power supply 2.				
32	VSS	Ground				

Alternate	LOCATION							
Functionality	0	1	2	3	4	5	6	Description
PCNT1_S1IN	PC5	PB4						Pulse Counter PCNT1 input number 1.
PCNT2_S0IN	PD0	PE8						Pulse Counter PCNT2 input number 0.
PCNT2_S1IN	PD1	PE9						Pulse Counter PCNT2 input number 1.
PRS_CH0	PA0	PF3						Peripheral Reflex System PRS, channel 0.
PRS_CH1	PA1	PF4						Peripheral Reflex System PRS, channel 1.
PRS_CH2	PC0	PF5						Peripheral Reflex System PRS, channel 2.
PRS_CH3	PC1	PE8						Peripheral Reflex System PRS, channel 3.
TIM0_CC0	PA0	PA0	PF6	PD1	PA0	PF0		Timer 0 Capture Compare input / output channel 0.
TIM0_CC1	PA1	PA1	PF7	PD2	PC0	PF1		Timer 0 Capture Compare input / output channel 1.
TIM0_CC2	PA2	PA2	PF8	PD3	PC1	PF2		Timer 0 Capture Compare input / output channel 2.
TIM0_CDTI0	PA3	PC13	PF3	PC13	PC2	PF3		Timer 0 Complimentary Deat Time Insertion channel 0.
TIM0_CDTI1	PA4	PC14	PF4	PC14	PC3	PF4		Timer 0 Complimentary Deat Time Insertion channel 1.
TIM0_CDTI2	PA5	PC15	PF5	PC15	PC4	PF5		Timer 0 Complimentary Deat Time Insertion channel 2.
TIM1_CC0	PC13	PE10	PB0	PB7	PD6			Timer 1 Capture Compare input / output channel 0.
TIM1_CC1	PC14	PE11	PB1	PB8	PD7			Timer 1 Capture Compare input / output channel 1.
TIM1_CC2	PC15	PE12	PB2	PB11	PC13			Timer 1 Capture Compare input / output channel 2.
TIM2_CC0	PA8	PA12	PC8					Timer 2 Capture Compare input / output channel 0.
TIM2_CC1	PA9	PA13	PC9					Timer 2 Capture Compare input / output channel 1.
TIM2_CC2	PA10	PA14	PC10					Timer 2 Capture Compare input / output channel 2.
TIM3_CC0	PE14	PE0						Timer 3 Capture Compare input / output channel 0.
TIM3_CC1	PE15	PE1						Timer 3 Capture Compare input / output channel 1.
TIM3_CC2	PA15	PE2						Timer 3 Capture Compare input / output channel 2.
U0_RX	PF7	PE1	PA4	PC15				UART0 Receive input.
U0_TX	PF6	PE0	PA3	PC14				UART0 Transmit output. Also used as receive input in half duplex communication.
U1_RX	PC13		PB10	PE3				UART1 Receive input.
U1_TX	PC12		PB9	PE2				UART1 Transmit output. Also used as receive input in half duplex communication.
US0_CLK	PE12	PE5	PC9	PC15	PB13	PB13		USART0 clock input / output.
US0_CS	PE13	PE4	PC8	PC14	PB14	PB14		USART0 chip select input / output.
US0_RX	PE11	PE6	PC10	PE12	PB8	PC1		USART0 Asynchronous Receive. USART0 Synchronous mode Master Input / Slave Output (MISO).
US0_TX	PE10	PE7	PC11	PE13	PB7	PC0		USART0 Asynchronous Transmit.Also used as receive input in half duplex communication. USART0 Synchronous mode Master Output / Slave Input (MOSI).
US1_CLK	PB7	PD2	PF0					USART1 clock input / output.
US1_CS	PB8	PD3	PF1					USART1 chip select input / output.
US1_RX	PC1	PD1	PD6					USART1 Asynchronous Receive. USART1 Synchronous mode Master Input / Slave Output (MISO).
US1_TX	PC0	PD0	PD7					USART1 Asynchronous Transmit.Also used as receive input in half duplex communication. USART1 Synchronous mode Master Output / Slave Input (MOSI).

Updated the EM0 and EM1 current consumption numbers. Updated the the EM1 plots and removed the EM0 plots.

Updated Environmental information.

Updated trademark, disclaimer and contact information.

Other minor corrections.

7.4 Revision 1.20

June 28th, 2013

Updated power requirements in the Power Management section.

Removed minimum load capacitance figure and table. Added reference to application note.

Other minor corrections.

7.5 Revision 1.10

May 6th, 2013

Updated current consumption table and figures in Electrical characteristics section.

Other minor corrections.

7.6 Revision 1.00

September 11th, 2012

Updated the HFRCO 1 MHz band typical value to 1.2 MHz.

Updated the HFRCO 7 MHz band typical value to 6.6 MHz.

Other minor corrections.

7.7 Revision 0.95

May 3rd, 2012

Updated EM2/EM3 current consumption at 85°C.

7.8 Revision 0.90

February 27th, 2012

Initial preliminary release.

B Contact Information

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Please visit the Silicon Labs Technical Support web page:
<http://www.silabs.com/support/pages/contacttechnicalsupport.aspx>
and register to submit a technical support request.

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