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#### Details

Product Status	Obsolete
Core Processor	8051
Core Size	8-Bit
Speed	25MHz
Connectivity	SMBus (2-Wire/I <sup>2</sup> C), SPI, UART/USART
Peripherals	Cap Sense, POR, PWM, WDT
Number of I/O	39
Program Memory Size	8KB (8K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	512 x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V
Data Converters	-
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	48-VFQFN Exposed Pad
Supplier Device Package	48-QFN (7x7)
Purchase URL	https://www.e-xfl.com/product-detail/silicon-labs/c8051f715-gm

Email: info@E-XFL.COM

Address: Room A, 16/F, Full Win Commercial Centre, 573 Nathan Road, Mongkok, Hong Kong

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Figure 3.1. C8051F7xx-GQ TQFP64 Pinout Diagram (Top View)



### 12.1. External Voltage References

To use an external voltage reference, REFSL[1:0] should be set to 00. Bypass capacitors should be added as recommended by the manufacturer of the external voltage reference.

### 12.2. Internal Voltage Reference Options

A 1.6 V high-speed reference is included on-chip. The high speed internal reference is selected by setting REFSL[1:0] to 11. When selected, the high-speed internal reference will be automatically enabled on an as-needed basis by ADC0.

For applications with a non-varying power supply voltage, using the power supply as the voltage reference can provide ADC0 with added dynamic range at the cost of reduced power supply noise rejection. To use the 1.8 to 3.6 V power supply voltage ( $V_{DD}$ ) or the 1.8 V regulated digital supply voltage as the reference source, REFSL[1:0] should be set to 01 or 10, respectively.

### 12.3. Analog Ground Reference

To prevent ground noise generated by switching digital logic from affecting sensitive analog measurements, a separate analog ground reference option is available. When enabled, the ground reference for ADC0 is taken from the P0.1/AGND pin. Any external sensors sampled by ADC0 should be referenced to the P0.1/AGND pin. The separate analog ground reference option is enabled by setting REFGND to 1. Note that when using this option, P0.1/AGND must be connected to the same potential as GND.

### 12.4. Temperature Sensor Enable

The TEMPE bit in register REF0CN enables the temperature sensor. While disabled, the temperature sensor defaults to a high impedance state and any ADC0 measurements performed on the sensor result in meaningless data.



## 14. Comparator0

C8051F70x/71x devices include an on-chip programmable voltage comparator, Comparator0, shown in Figure 14.1.

The Comparator offers programmable response time and hysteresis, an analog input multiplexer, and two outputs that are optionally available at the Port pins: a synchronous "latched" output (CP0), or an asynchronous "raw" output (CP0A). The asynchronous CP0A signal is available even when the system clock is not active. This allows the Comparator to operate and generate an output with the device in STOP mode. When assigned to a Port pin, the Comparator output may be configured as open drain or push-pull (see Section "28.4. Port I/O Initialization" on page 189). Comparator0 may also be used as a reset source (see Section "25.5. Comparator0 Reset" on page 167).

The Comparator0 inputs are selected by the comparator input multiplexer, as detailed in Section "14.1. Comparator Multiplexer" on page 78.



Figure 14.1. Comparator0 Functional Block Diagram

The Comparator output can be polled in software, used as an interrupt source, and/or routed to a Port pin. When routed to a Port pin, the Comparator output is available asynchronous or synchronous to the system clock; the asynchronous output is available even in STOP mode (with no system clock active). When disabled, the Comparator output (if assigned to a Port I/O pin via the Crossbar) defaults to the logic low state, and the power supply to the comparator is turned off. See Section "28.3. Priority Crossbar Decoder" on page 185 for details on configuring Comparator outputs via the digital Crossbar. Comparator inputs can be externally driven from -0.25 V to (V<sub>DD</sub>) + 0.25 V without damage or upset. The complete Comparator electrical specifications are given in Section "9. Electrical Characteristics" on page 47.



### 18.6.2. Multiplexed Mode 18.6.2.1. 16-bit MOVX: EMI0CF[4:2] = 001, 010, or 011



Muxed 16-bit WRITE





## SFR Definition 25.1. VDM0CN: $V_{DD}$ Monitor Control

Bit	7	6	5	4	3	2	1	0
Name	VDMEN	VDDSTAT						
Туре	R/W	R	R	R	R	R	R	R
Reset	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies

### SFR Address = 0xFF; SFR Page = All Pages

Bit	Name	Function
7	VDMEN	V <sub>DD</sub> Monitor Enable.
		This bit turns the V <sub>DD</sub> monitor circuit on/off. The V <sub>DD</sub> Monitor cannot generate system resets until it is also selected as a reset source in register RSTSRC (SFR Definition 25.2). Selecting the V <sub>DD</sub> monitor as a reset source before it has stabilized may generate a system reset. In systems where this reset would be undesirable, a delay should be introduced between enabling the V <sub>DD</sub> Monitor and selecting it as a reset source. 0: V <sub>DD</sub> Monitor Disabled. 1: V <sub>DD</sub> Monitor Enabled.
6	VDDSTAT	V <sub>DD</sub> Status.
		This bit indicates the current power supply status ( $V_{DD}$ Monitor output). 0: $V_{DD}$ is at or below the $V_{DD}$ monitor threshold. 1: $V_{DD}$ is above the $V_{DD}$ monitor threshold.
5:0	Unused	Read = Varies; Write = Don't care.

### 25.3. External Reset

The external RST pin provides a means for external circuitry to force the device into a reset state. Asserting an active-low signal on the RST pin generates a reset; an external pullup and/or decoupling of the RST pin may be necessary to avoid erroneous noise-induced resets. See Section "9. Electrical Characteristics" on page 47 for complete RST pin specifications. The PINRSF flag (RSTSRC.0) is set on exit from an external reset.

### 25.4. Missing Clock Detector Reset

The Missing Clock Detector (MCD) is a one-shot circuit that is triggered by the system clock. If the system clock remains high or low for more than the MCD timeout, the one-shot will time out and generate a reset. After a MCD reset, the MCDRSF flag (RSTSRC.2) will read 1, signifying the MCD as the reset source; otherwise, this bit reads 0. Writing a 1 to the MCDRSF bit enables the Missing Clock Detector; writing a 0 disables it. The state of the RST pin is unaffected by this reset.



## SFR Definition 28.13. P1MDIN: Port 1 Input Mode

Bit	7	6	5	4	3	2	1	0
Name	P1MDIN[7:0]							
Туре	R/W							
Reset	1*	1	1	1	1	1	1	1

#### SFR Address = 0xF2; SFR Page = F

Bit	Name	Function				
7:0	P1MDIN[7:0]	Analog Configuration Bits for P1.7–P1.0 (respectively).				
		Port pins configured for analog mode have their weak pullup, digital driver, and digital receiver disabled.				
		: Corresponding P1.n pin is configured for analog mode.				
		1: Corresponding P1.n pin is not configured for analog mode.				
Note:	e: On C8051F716 and C8051F717 devices, P1.7 will default to analog mode. If the P1MDIN register is written on the C8051F716 and C8051F717 devices, P1.7 should always be configured as analog.					

### SFR Definition 28.14. P1MDOUT: Port 1 Output Mode

Bit	7	6	5	4	3	2	1	0
Name	P1MDOUT[7:0]							
Туре	R/W							
Reset	0	0	0	0	0	0	0	0

SFR Address = 0xA5; SFR Page = F

Bit	Name	Function
7:0	P1MDOUT[7:0]	Output Configuration Bits for P1.7–P1.0 (respectively).
		These bits are ignored if the corresponding bit in register P1MDIN is logic 0.
		0: Corresponding P1.n Output is open-drain.
		1: Corresponding P1.n Output is push-pull.



## SFR Definition 28.25. P3DRV: Port 3 Drive Strength

Bit	7	6	5	4	3	2	1	0
Name	P3DRV[7:0]							
Туре	R/W							
Reset	0	0	0	0	0	0	0	0

#### SFR Address = 0xFC; SFR Page = F

Bit	Name	Function
7:0	P3DRV[7:0]	Drive Strength Configuration Bits for P3.7-P3.0 (respectively).
		Configures digital I/O Port cells to high or low output drive strength. 0: Corresponding P3.n Output has low output drive strength. 1: Corresponding P3.n Output has high output drive strength.

### SFR Definition 28.26. P4: Port 4

Bit	7	6	5	4	3	2	1	0
Name	P4[7:0]							
Туре	R/W							
Reset	1	1	1	1	1	1	1	1

SFR Address = 0xAC; SFR Page = All Pages

Bit	Name	Description	Write	Read
7:0	P4[7:0]	<b>Port 4 Data.</b> Sets the Port latch logic value or reads the Port pin logic state in Port cells con- figured for digital I/O.	0: Set output latch to logic LOW. 1: Set output latch to logic HIGH.	0: P4.n Port pin is logic LOW. 1: P4.n Port pin is logic HIGH.



## SFR Definition 28.29. P4DRV: Port 4 Drive Strength

Bit	7	6	5	4	3	2	1	0			
Name	P4DRV[7:0]										
Туре				R/	W						
Reset	0	0	0	0	0	0	0	0			

SFR Address = 0xFD; SFR Page = F

Bit	Name	Function
7:0	P4DRV[7:0]	Drive Strength Configuration Bits for P4.7–P4.0 (respectively).
		Configures digital I/O Port cells to high or low output drive strength. 0: Corresponding P4.n Output has low output drive strength. 1: Corresponding P4.n Output has high output drive strength.

### SFR Definition 28.30. P5: Port 5

Bit	7	6	5	4	3	2	1	0			
Name	P5[7:0]										
Туре				R/	W						
Reset	1	1	1	1	1	1	1	1			

SFR Address = 0xB3; SFR Page = All Pages

Bit	Name	Description	Write	Read
7:0	P5[7:0]	<b>Port 5 Data.</b> Sets the Port latch logic value or reads the Port pin logic state in Port cells con- figured for digital I/O.	<ul><li>0: Set output latch to logic LOW.</li><li>1: Set output latch to logic HIGH.</li></ul>	0: P5.n Port pin is logic LOW. 1: P5.n Port pin is logic HIGH.



## SFR Definition 29.2. CRC0IN: CRC Data Input

Bit	7	6	5	4	3	2	1	0				
Name	ne CRC0IN[7:0]											
Туре				R/	W							
Reset	<b>Reset</b> 0 0 0 0 0 0 0 0 0											
			-									

SFR Address = 0x94; SFR Page = F

Bit	Name	Function
7:0	CRC0IN[7:0]	CRC0 Data Input.
		Each write to CRC0IN results in the written data being computed into the existing CRC result according to the CRC algorithm described in Section 29.1

## SFR Definition 29.3. CRC0DATA: CRC Data Output

Bit	7	6	5	4	3	2	1	0		
Name	CRC0DAT[7:0]									
Туре	R/W									
Reset	0	0	0	0	0	0	0	0		

SFR Address = 0xD9; SFR Page = F

Bit	Name	Function
7:0	CRC0DAT[7:0]	CRC0 Data Output.
		Each read or write performed on CRC0DAT targets the CRC result bits pointed to by the CRC0 Result Pointer (CRC0PNT bits in CRC0CN).



overflow after 25 ms (and SMBTOE set), the Timer 3 interrupt service routine can be used to reset (disable and re-enable) the SMBus in the event of an SCL low timeout.

### 30.3.5. SCL High (SMBus Free) Timeout

The SMBus specification stipulates that if the SCL and SDA lines remain high for more that 50  $\mu$ s, the bus is designated as free. When the SMBFTE bit in SMB0CF is set, the bus will be considered free if SCL and SDA remain high for more than 10 SMBus clock source periods (as defined by the timer configured for the SMBus clock source). If the SMBus is waiting to generate a Master START, the START will be generated following this timeout. A clock source is required for free timeout detection, even in a slave-only implementation.

### 30.4. Using the SMBus

The SMBus can operate in both Master and Slave modes. The interface provides timing and shifting control for serial transfers; higher level protocol is determined by user software. The SMBus interface provides the following application-independent features:

- Byte-wise serial data transfers
- Clock signal generation on SCL (Master Mode only) and SDA data synchronization
- Timeout/bus error recognition, as defined by the SMB0CF configuration register
- START/STOP timing, detection, and generation
- Bus arbitration
- Interrupt generation
- Status information
- Optional hardware recognition of slave address and automatic acknowledgement of address/data

SMBus interrupts are generated for each data byte or slave address that is transferred. When hardware acknowledgement is disabled, the point at which the interrupt is generated depends on whether the hardware is acting as a data transmitter or receiver. When a transmitter (i.e., sending address/data, receiving an ACK), this interrupt is generated after the ACK cycle so that software may read the received ACK value; when receiving data (i.e., receiving address/data, sending an ACK), this interrupt is generated before the ACK cycle so that software may define the outgoing ACK value. If hardware acknowledgement is enabled, these interrupts are always generated after the ACK cycle. See Section 30.5 for more details on transmission sequences.

Interrupts are also generated to indicate the beginning of a transfer when a master (START generated), or the end of a transfer when a slave (STOP detected). Software should read the SMB0CN (SMBus Control register) to find the cause of the SMBus interrupt. The SMB0CN register is described in Section 30.4.2; Table 30.5 provides a quick SMB0CN decoding reference.

#### 30.4.1. SMBus Configuration Register

The SMBus Configuration register (SMB0CF) is used to enable the SMBus Master and/or Slave modes, select the SMBus clock source, and select the SMBus timing and timeout options. When the ENSMB bit is set, the SMBus is enabled for all master and slave events. Slave events may be disabled by setting the INH bit. With slave events inhibited, the SMBus interface will still monitor the SCL and SDA pins; however, the interface will NACK all received addresses and will not generate any slave interrupts. When the INH bit is set, all slave events will be inhibited following the next START (interrupts will continue for the duration of the current transfer).



Table 30.5. SMBus Status Decoding: Hardware ACK Disabled (EHAC	K = 0)
--	--------

	Valu	es I	Rea	d			Val V	lues Vrit	sto e	tus ected
Mode	Status Vector	ACKRQ	ARBLOST	ACK	Current SMbus State	Typical Response Options	STA	STO	ACK	Next Sta Vector Exp
	1110	0	0	х	A master START was gener- ated.	Load slave address + R/W into SMB0DAT.	0	0	Х	1100
er		0	0	0	A master data or address byte was transmitted; NACK received.	Set STA to restart transfer. Abort transfer.	1 0	0 1	X X	1110 —
Insmitte						Load next data byte into SMB0DAT.	0	0	Х	1100
Tra	1100					End transfer with STOP.	0	1	Х	—
Master		0	0	1	A master data or address byte was transmitted; ACK	End transfer with STOP and start another transfer.	1	1	Х	—
					received.	Send repeated START.	1	0	Х	1110
						Switch to Master Receiver Mode (clear SI without writing new data to SMB0DAT).	0	0	Х	1000
						Acknowledge received byte; Read SMB0DAT.	0	0	1	1000
						Send NACK to indicate last byte, and send STOP.	0	1	0	_
ver						Send NACK to indicate last byte, and send STOP followed by START.	1	1	0	1110
r Recei	1000	1	0	х	A master data byte was received; ACK requested.	Send ACK followed by repeated START.	1	0	1	1110
Master						Send NACK to indicate last byte, and send repeated START.	1	0	0	1110
						Send ACK and switch to Master Transmitter Mode (write to SMB0DAT before clearing SI).	0	0	1	1100
						Send NACK and switch to Mas- ter Transmitter Mode (write to SMB0DAT before clearing SI).	0	0	0	1100





\* SCK is shown for CKPOL = 0. SCK is the opposite polarity for CKPOL = 1.





\* SCK is shown for CKPOL = 0. SCK is the opposite polarity for CKPOL = 1.

### Figure 31.9. SPI Master Timing (CKPHA = 1)



## 32. UART0

UART0 is an asynchronous, full duplex serial port offering modes 1 and 3 of the standard 8051 UART. Enhanced baud rate support allows a wide range of clock sources to generate standard baud rates (details in Section "32.1. Enhanced Baud Rate Generation" on page 255). Received data buffering allows UART0 to start reception of a second incoming data byte before software has finished reading the previous data byte.

UART0 has two associated SFRs: Serial Control Register 0 (SCON0) and Serial Data Buffer 0 (SBUF0). The single SBUF0 location provides access to both transmit and receive registers. Writes to SBUF0 always access the Transmit register. Reads of SBUF0 always access the buffered Receive register; it is not possible to read data from the Transmit register.

With UART0 interrupts enabled, an interrupt is generated each time a transmit is completed (TI0 is set in SCON0), or a data byte has been received (RI0 is set in SCON0). The UART0 interrupt flags are not cleared by hardware when the CPU vectors to the interrupt service routine. They must be cleared manually by software, allowing software to determine the cause of the UART0 interrupt (transmit complete or receive complete).



Figure 32.1. UART0 Block Diagram



			Fre	quency: 24.5 N	1Hz					
	Target Baud Rate (bps)	Baud Rate% Error	Oscillator Divide Factor	Timer Clock Source	SCA1–SCA0 (pre-scale select) <sup>1</sup>	T1M <sup>1</sup>	Timer 1 Reload Value (hex)			
	230400	-0.32%	106	SYSCLK	XX <sup>2</sup>	1	0xCB			
E	115200	-0.32%	212	SYSCLK	XX	1	0x96			
ror Ssc	57600	0.15%	426	SYSCLK	XX	1	0x2B			
Υ Ψ	28800	-0.32%	848	SYSCLK/4	01	0	0x96			
ля Г	14400	0.15%	1704	SYSCLK/12	00	0	0xB9			
γS	9600	-0.32%	2544	SYSCLK/12	00	0	0x96			
is ⊨	2400	-0.32%	10176	SYSCLK/48	10	0	0x96			
	1200	0.15%	20448	SYSCLK/48	10	0	0x2B			
Notes: 1. 2.	Notes: 1. SCA1–SCA0 and T1M bit definitions can be found in Section 33.1.   2. X = Don't care.									

### Table 32.1. Timer Settings for Standard Baud Rates Using The Internal 24.5 MHz Oscillator

### Table 32.2. Timer Settings for Standard Baud Rates Using an External 22.1184 MHz Oscillator

			Frequ	uency: 22.1184	MHz		
	Target Baud Rate (bps)	Baud Rate% Error	Oscillator Divide Factor	Timer Clock Source	SCA1–SCA0 (pre-scale select) <sup>1</sup>	T1M <sup>1</sup>	Timer 1 Reload Value (hex)
	230400	0.00%	96	SYSCLK	XX <sup>2</sup>	1	0xD0
۲. ۲.	115200	0.00%	192	SYSCLK	XX	1	0xA0
ror Dsc	57600	0.00%	0.00% 384		XX	1	0x40
K f al O	28800	0.00%	768	SYSCLK / 12	00	0	0xE0
CL	14400	0.00%	1536	SYSCLK / 12	00	0	0xC0
YS( xte	9600	0.00%	2304	SYSCLK / 12	00	0	0xA0
ŚШ	2400	0.00%	9216	SYSCLK / 48	10	0	0xA0
	1200	0.00%	18432	SYSCLK / 48	10	0	0x40
ε.	230400	0.00%	96	EXTCLK / 8	11	0	0xFA
ror	115200	0.00%	192	EXTCLK / 8	11	0	0xF4
K f I O	57600	0.00%	384	EXTCLK / 8	11	0	0xE8
CL	28800	0.00%	768	EXTCLK / 8	11	0	0xD0
YS( nte∣	14400	0.00%	1536	EXTCLK / 8	11	0	0xA0
s –	9600	0.00%	2304	EXTCLK / 8	11	0	0x70
Notos	· · · · · · · · · · · · · · · · · · ·						

1. SCA1–SCA0 and T1M bit definitions can be found in Section 33.1.

2. X = Don't care.









## 34. Programmable Counter Array

The Programmable Counter Array (PCA0) provides enhanced timer functionality while requiring less CPU intervention than the standard 8051 counter/timers. The PCA consists of a dedicated 16-bit counter/timer and three 16-bit capture/compare modules. Each capture/compare module has its own associated I/O line (CEXn) which is routed through the Crossbar to Port I/O when enabled. The counter/timer is driven by a programmable timebase that can select between seven sources: system clock, system clock divided by four, system clock divided by twelve, the external oscillator clock source divided by 8, Timer 0 overflows, or an external clock signal on the ECI input pin. Each capture/compare module may be configured to operate independently in one of six modes: Edge-Triggered Capture, Software Timer, High-Speed Output, Frequency Output, 8 to 11-Bit PWM, or 16-Bit PWM (each mode is described in Section "34.3. Capture/Compare Modules" on page 286). The external oscillator clock option is ideal for real-time clock (RTC) functionality, allowing the PCA to be clocked by a precision external oscillator while the internal oscillator drives the system clock. The PCA is configured and controlled through the system controller's Special Function Registers. The PCA block diagram is shown in Figure 34.1



Figure 34.1. PCA Block Diagram



#### 34.3.1. Edge-triggered Capture Mode

In this mode, a valid transition on the CEXn pin causes the PCA to capture the value of the PCA counter/timer and load it into the corresponding module's 16-bit capture/compare register (PCA0CPLn and PCA0CPHn). The CAPPn and CAPNn bits in the PCA0CPMn register are used to select the type of transition that triggers the capture: low-to-high transition (positive edge), high-to-low transition (negative edge), or either transition (positive or negative edge). When a capture occurs, the Capture/Compare Flag (CCFn) in PCA0CN is set to logic 1. An interrupt request is generated if the CCFn interrupt for that module is enabled. The CCFn bit is not automatically cleared by hardware when the CPU vectors to the interrupt service routine, and must be cleared by software. If both CAPPn and CAPNn bits are set to logic 1, then the state of the Port pin associated with CEXn can be read directly to determine whether a rising-edge or fall-ing-edge caused the capture.



Figure 34.4. PCA Capture Mode Diagram

**Note:** The CEXn input signal must remain high or low for at least 2 system clock cycles to be recognized by the hardware.



### 34.3.6. 16-Bit Pulse Width Modulator Mode

A PCA module may also be operated in 16-Bit PWM mode. 16-bit PWM mode is independent of the other (8/9/10/11-bit) PWM modes. In this mode, the 16-bit capture/compare module defines the number of PCA clocks for the low time of the PWM signal. When the PCA counter matches the module contents, the output on CEXn is asserted high; when the 16-bit counter overflows, CEXn is asserted low. To output a varying duty cycle, new value writes should be synchronized with PCA CCFn match interrupts. 16-Bit PWM Mode is enabled by setting the ECOMn, PWMn, and PWM16n bits in the PCA0CPMn register. For a varying duty cycle, match interrupts should be enabled (ECCFn = 1 AND MATn = 1) to help synchronize the capture/compare register writes. If the MATn bit is set to 1, the CCFn flag for the module will be set each time a 16-bit comparator match (rising edge) occurs. The CF flag in PCA0CN can be used to detect the overflow (falling edge). The duty cycle for 16-Bit PWM Mode is given by Equation 34.4.

**Important Note About Capture/Compare Registers**: When writing a 16-bit value to the PCA0 Capture/Compare registers, the low byte should always be written first. Writing to PCA0CPLn clears the ECOMn bit to 0; writing to PCA0CPHn sets ECOMn to 1.

Duty Cycle = 
$$\frac{(65536 - PCA0CPn)}{65536}$$

Equation 34.4. 16-Bit PWM Duty Cycle

Using Equation 34.4, the largest duty cycle is 100% (PCA0CPn = 0), and the smallest duty cycle is 0.0015% (PCA0CPn = 0xFFFF). A 0% duty cycle may be generated by clearing the ECOMn bit to 0.



Figure 34.10. PCA 16-Bit PWM Mode



## C2 Register Definition 35.2. DEVICEID: C2 Device ID

Bit	7	6	5	4	3	2	1	0					
Nam	e	DEVICEID[7:0]											
Туре	9	R/W											
Rese	et <sup>0</sup>	0	0	1	1	1	1	0					
C2 Address: 0x00													
Bit	Name		Function										
7:0	DEVICEID[7:0	Device ID.											
		This read-only register returns the 8-bit device ID: 0x1E (C8051F70x/71x).											

### C2 Register Definition 35.3. REVID: C2 Revision ID

Bit	7	6	5	4	3	2	1	0				
Nam	9	REVID[7:0]										
Туре	•	R/W										
Rese	t Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies				
C2 Address: 0x01												
Bit	Name	Function										
7:0	REVID[7:0]	Revision ID.										
		This read-only register returns the 8-bit revision ID. For example: 0x00 = Revision A.										

