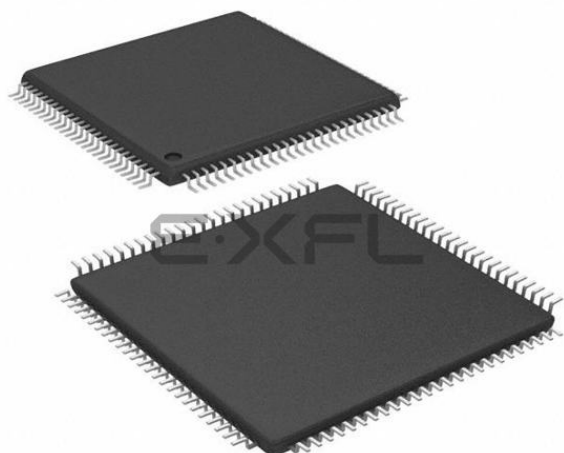




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Details

Product Status	Active
Core Processor	MIPS32® M4K™
Core Size	32-Bit Single-Core
Speed	80MHz
Connectivity	CANbus, Ethernet, I ² C, SPI, UART/USART, USB OTG
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Number of I/O	85
Program Memory Size	128KB (128K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	32K x 8
Voltage - Supply (Vcc/Vdd)	2.3V ~ 3.6V
Data Converters	A/D 16x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 105°C (TA)
Mounting Type	Surface Mount
Package / Case	100-TQFP
Supplier Device Package	100-TQFP (14x14)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic32mx764f128l-v-pf

PIC32MX5XX/6XX/7XX

TABLE 2: PIC32MX6XX USB AND ETHERNET FEATURES

USB and Ethernet																
Device	Pins	Program Memory (KB)	Data Memory (KB)	USB	Ethernet	Timers/Capture/Compare	DMA Channels (Programmable/Dedicated)	UART ^(2,3)	SPI ⁽³⁾	I ² C ⁽³⁾	10-bit 1 Msps ADC (Channels)	Comparators	PMP/PSP	JTAG	Trace	Packages ⁽⁴⁾
PIC32MX664F064H	64	64 + 12 ⁽¹⁾	32	1	1	5/5/5	4/4	6	3	4	16	2	Yes	Yes	No	PT, MR
PIC32MX664F128H	64	128 + 12 ⁽¹⁾	32	1	1	5/5/5	4/4	6	3	4	16	2	Yes	Yes	No	PT, MR
PIC32MX675F256H	64	256 + 12 ⁽¹⁾	64	1	1	5/5/5	8/4	6	3	4	16	2	Yes	Yes	No	PT, MR
PIC32MX675F512H	64	512 + 12 ⁽¹⁾	64	1	1	5/5/5	8/4	6	3	4	16	2	Yes	Yes	No	PT, MR
PIC32MX695F512H	64	512 + 12 ⁽¹⁾	128	1	1	5/5/5	8/4	6	3	4	16	2	Yes	Yes	No	PT, MR
PIC32MX664F064L	100	64 + 12 ⁽¹⁾	32	1	1	5/5/5	4/4	6	4	5	16	2	Yes	Yes	Yes	PT, PF, BG
PIC32MX664F128L	100	128 + 12 ⁽¹⁾	32	1	1	5/5/5	4/4	6	4	5	16	2	Yes	Yes	Yes	PT, PF, BG
PIC32MX675F256L	100	256 + 12 ⁽¹⁾	64	1	1	5/5/5	8/4	6	4	5	16	2	Yes	Yes	Yes	PT, PF, BG
PIC32MX675F512L	100	512 + 12 ⁽¹⁾	64	1	1	5/5/5	8/4	6	4	5	16	2	Yes	Yes	Yes	PT, PF, BG, TL
PIC32MX695F512L	100	512 + 12 ⁽¹⁾	128	1	1	5/5/5	8/4	6	4	5	16	2	Yes	Yes	Yes	PT, PF, BG, TL

Legend: PF, PT = TQFP MR = QFN BG = TFBGA TL = VTLA⁽⁵⁾

Note 1: This device features 12 KB boot Flash memory.

2: CTS and RTS pins may not be available for all UART modules. Refer to the “**Device Pin Tables**” section for more information.

3: Some pins between the UART, SPI and I²C modules may be shared. Refer to the “**Device Pin Tables**” section for more information.

4: Refer to **34.0 “Packaging Information”** for more information.

5: 100-pin devices other than those listed here are available in the VTLA package upon request. Please contact your local Microchip Sales Office for details.

PIC32MX5XX/6XX/7XX

TABLE 5: PIN NAMES FOR 64-PIN USB AND ETHERNET DEVICES

64-PIN QFN ⁽²⁾ AND TQFP (TOP VIEW)			
PIC32MX664F064H PIC32MX664F128H PIC32MX675F256H PIC32MX675F512H PIC32MX695F512H		64	1
		QFN ⁽²⁾	TQFP ¹
Pin #	Full Pin Name	Pin #	Full Pin Name
1	ETXEN/PMD5/RE5	33	USBID/RF3
2	ETXD0/PMD6/RE6	34	VBUS
3	ETXD1/PMD7/RE7	35	VUSB3V3
4	SCK2/U6TX/U3RTS/PMA5/CN8/RG6	36	D-/RG3
5	SDA4/SDI2/U3RX/PMA4/CN9/RG7	37	D+/RG2
6	SCL4/SDO2/U3TX/PMA3/CN10/RG8	38	VDD
7	MCLR	39	OSC1/CLKI/RC12
8	SS2/U6RX/U3CTS/PMA2/CN11/RG9	40	OSC2/CLKO/RC15
9	VSS	41	VSS
10	VDD	42	RTCC/AERXD1/ETXD3/IC1/INT1/RD8
11	AN5/C1IN+/VBUSON/CN7/RB5	43	AERXD0/ETXD2/SS3/U4RX/U1CTS/SDA1/IC2/INT2/RD9
12	AN4/C1IN-/CN6/RB4	44	ECOL/AECRSDV/SCL1/IC3/PMCS2/PMA15/INT3/RD10
13	AN3/C2IN+/CN5/RB3	45	ECRS/AEREFCLK/IC4/PMCS1/PMA14/INT4/RD11
14	AN2/C2IN-/CN4/RB2	46	OC1/INT0/RD0
15	PGEC1/AN1/VREF-/CVREF-/CN3/RB1	47	SOSCI/CN1/RC13
16	PGED1/AN0/VREF+/CVREF+/PMA6/CN2/RB0	48	SOSCO/T1CK/CN0/RC14
17	PGEC2/AN6/OCFA/RB6	49	EMDIO/AEMDIO/SCK3/U4TX/U1RTS/OC2/RD1
18	PGED2/AN7/RB7	50	SDA3/SDI3/U1RX/OC3/RD2
19	AVDD	51	SCL3/SDO3/U1TX/OC4/RD3
20	AVSS	52	OC5/IC5/PMWR/CN13/RD4
21	AN8/SS4/U5RX/U2CTS/C1OUT/RB8	53	PMRD/CN14/RD5
22	AN9/C2OUT/PMA7/RB9	54	AETXEN/ETXERR/CN15/RD6
23	TMS/AN10/CVREFOUT/PMA13/RB10	55	ETXCLK/AERXERR/CN16/RD7
24	TDO/AN11/PMA12/RB11	56	VCAP
25	VSS	57	VDD
26	VDD	58	AETXD1/ERXD3/RF0
27	TCK/AN12/PMA11/RB12	59	AETXD0/ERXD2/RF1
28	TDI/AN13/PMA10/RB13	60	ERXD1/PMD0/RE0
29	AN14/SCK4/U5TX/U2RTSU2RTS/PMALH/PMA1/RB14	61	ERXD0/PMD1/RE1
30	AN15/EMDC/AEMDC/OCFB/PMALL/PMA0/CN12/RB15	62	ERXDV/ECRSDV/PMD2/RE2
31	SDA5/SDI4/U2RX/PMA9/CN17/RF4	63	ERXCLK/EREFCLK/PMD3/RE3
32	SCL5/SDO4/U2TX/PMA8/CN18/RF5	64	ERXERR/PMD4/RE4

Note 1: Shaded pins are 5V tolerant.

2: The metal plane at the bottom of the QFN device is not connected to any pins and is recommended to be connected to Vss externally.

PIC32MX5XX/6XX/7XX

TABLE 11: PIN NAMES FOR USB AND ETHERNET DEVICES

121-PIN TFBGA (BOTTOM VIEW)		L11	
PIC32MX664F064L PIC32MX664F128L PIC32MX675F256L PIC32MX675F512L PIC32MX695F512L		L1	A11
Note: The TFBGA package skips from row “H” to row “J” and has no “I” row.		A1	
Pin #	Full Pin Name	Pin #	Full Pin Name
A1	PMD4/RE4	E2	T4CK/RC3
A2	PMD3/RE3	E3	ECOL/SCK2/U6TX/U3RTS/PMA5/CN8/RG6
A3	TRD0/RG13	E4	T3CK/RC2
A4	PMD0/RE0	E5	VDD
A5	PMD8/RG0	E6	ETXERR/PMD9/RG1
A6	ETXD0/PMD10/RF1	E7	VSS
A7	VDD	E8	AETXEN/SDA1/INT4/RA15
A8	VSS	E9	RTCC/EMDIO/AEMDIO/IC1/RD8
A9	ETXD2/IC5/PMD12/RD12	E10	SS1/IC2/RD9
A10	OC3/RD2	E11	AETXCLK/SCL1/INT3/RA14
A11	OC2/RD1	F1	MCLR
B1	No Connect (NC)	F2	ERXDVI/AERXDVI/ECRSDVI/AECRSDVI/SCL4/SDO2/U3TX/PMA3/CN10/RG8
B2	AERXERR/RG15	F3	ERXCLK/AERXCLK/EREFCLK/AEREFCLK/SS2/U6RX/U3CTS/PMA2/CN11/RG9
B3	PMD2/RE2	F4	ECRS/SDA4/SDI2/U3RX/PMA4/CN9/RG7
B4	PMD1/RE1	F5	VSS
B5	TRD3/RA7	F6	No Connect (NC)
B6	ETXD1/PMD11/RF0	F7	No Connect (NC)
B7	VCAP	F8	VDD
B8	PMRD/CN14/RD5	F9	OSC1/CLKI/RC12
B9	OC4/RD3	F10	VSS
B10	VSS	F11	OSC2/CLKO/RC15
B11	SOSCO/T1CK/CN0/RC14	G1	AERXD0/INT1/RE8
C1	PMD6/RE6	G2	AERXD1/INT2/RE9
C2	VDD	G3	TMS/RA0
C3	TRD1/RG12	G4	No Connect (NC)
C4	TRD2/RG14	G5	VDD
C5	TRCLK/RA6	G6	VSS
C6	No Connect (NC)	G7	VSS
C7	ETXCLK/PMD15/CN16/RD7	G8	No Connect (NC)
C8	OC5/PMWR/CN13/RD4	G9	TDO/RA5
C9	VDD	G10	SDA2/RA3
C10	SOSCI/CN1/RC13	G11	TDI/RA4
C11	EMDC/AEMDC/IC4/PMCS1/PMA14/RD11	H1	AN5/C1IN+/VBUSON/CN7/RB5
D1	T2CK/RC1	H2	AN4/C1IN-/CN6/RB4
D2	PMD7/RE7	H3	VSS
D3	PMD5/RE5	H4	VDD
D4	VSS	H5	No Connect (NC)
D5	VSS	H6	VDD
D6	No Connect (NC)	H7	No Connect (NC)
D7	ETXEN/PMD14/CN15/RD6	H8	VBUS
D8	ETXD3/PMD13/CN19/RD13	H9	VUSB3V3
D9	SDO1/OC1/INT0/RD0	H10	D+/RG2
D10	No Connect (NC)	H11	SCL2/RA2
D11	SCK1/IC3/PMCS2/PMA15/RD10	J1	AN3/C2IN+/CN5/RB3
E1	T5CK/SDI1/RC4	J2	AN2/C2IN-/CN4/RB2

Note 1: Shaded pins are 5V tolerant.

PIC32MX5XX/6XX/7XX

TABLE 1-1: PINOUT I/O DESCRIPTIONS (CONTINUED)

Pin Name	Pin Number ⁽¹⁾				Pin Type	Buffer Type	Description
	64-Pin QFN/TQFP	100-Pin TQFP	121-Pin TFBGA	124-pin VTLA			
TMS	23	17	G3	B9	I	ST	JTAG Test mode select pin
TCK	27	38	J6	A26	I	ST	JTAG test clock input pin
TDI	28	60	G11	A40	I	ST	JTAG test data input pin
TDO	24	61	G9	B33	O	—	JTAG test data output pin
RTCC	42	68	E9	B37	O	—	Real-Time Clock alarm output
CVREF-	15	28	L2	A21	I	Analog	Comparator Voltage Reference (low)
CVREF+	16	29	K3	B17	I	Analog	Comparator Voltage Reference (high)
CVREFOUT	23	34	L5	A24	O	Analog	Comparator Voltage Reference output
C1IN-	12	21	H2	B11	I	Analog	Comparator 1 negative input
C1IN+	11	20	H1	A12	I	Analog	Comparator 1 positive input
C1OUT	21	32	K4	A23	O	—	Comparator 1 output
C2IN-	14	23	J2	B13	I	Analog	Comparator 2 negative input
C2IN+	13	22	J1	A13	I	Analog	Comparator 2 positive input
C2OUT	22	33	L4	B19	O	—	Comparator 2 output
PMA0	30	44	L8	A29	I/O	TTL/ST	Parallel Master Port Address bit 0 input (Buffered Slave modes) and output (Master modes)
PMA1	29	43	K7	B24	I/O	TTL/ST	Parallel Master Port Address bit 1 input (Buffered Slave modes) and output (Master modes)
PMA2	8	14	F3	A9	O	—	Parallel Master Port address (Demultiplexed Master modes)
PMA3	6	12	F2	A8	O	—	
PMA4	5	11	F4	B6	O	—	
PMA5	4	10	E3	A7	O	—	
PMA6	16	29	K3	B17	O	—	
PMA7	22	28	L2	A21	O	—	
PMA8	32	50	L11	A32	O	—	
PMA9	31	49	L10	B27	O	—	
PMA10	28	42	L7	A28	O	—	
PMA11	27	41	J7	B23	O	—	
PMA12	24	35	J5	B20	O	—	
PMA13	23	34	L5	A24	O	—	
PMA14	45	71	C11	A46	O	—	
PMA15	44	70	D11	B38	O	—	
PMCS1	45	71	C11	A46	O	—	Parallel Master Port Chip Select 1 strobe
PMCS2	44	70	D11	B38	O	—	Parallel Master Port Chip Select 2 strobe

Legend: CMOS = CMOS compatible input or output
 ST = Schmitt Trigger input with CMOS levels
 TTL = TTL input buffer

Analog = Analog input P = Power
 O = Output I = Input

Note 1: Pin numbers are only provided for reference. See the “**Device Pin Tables**” section for device pin availability.

2: See **25.0 “Ethernet Controller”** for more information.

PIC32MX5XX/6XX/7XX

REGISTER 7-6: IPCx: INTERRUPT PRIORITY CONTROL REGISTER

Bit Range	Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
31:24	U-0 —	U-0 —	U-0 —	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	IP03<2:0>						IS03<1:0>	
23:16	U-0 —	U-0 —	U-0 —	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	IP02<2:0>						IS02<1:0>	
15:8	U-0 —	U-0 —	U-0 —	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	IP01<2:0>						IS01<1:0>	
7:0	U-0 —	U-0 —	U-0 —	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	IP00<2:0>						IS00<1:0>	

Legend:

R = Readable bit

W = Writable bit

U = Unimplemented bit, read as '0'

-n = Value at POR

'1' = Bit is set

'0' = Bit is cleared

x = Bit is unknown

bit 31-29 **Unimplemented:** Read as '0'

bit 28-26 **IP03<2:0>:** Interrupt Priority bits

111 = Interrupt priority is 7

•
•
•

010 = Interrupt priority is 2

001 = Interrupt priority is 1

000 = Interrupt is disabled

bit 25-24 **IS03<1:0>:** Interrupt Sub-priority bits

11 = Interrupt sub-priority is 3

10 = Interrupt sub-priority is 2

01 = Interrupt sub-priority is 1

00 = Interrupt sub-priority is 0

bit 23-21 **Unimplemented:** Read as '0'

bit 20-18 **IP02<2:0>:** Interrupt Priority bits

111 = Interrupt priority is 7

•
•
•

010 = Interrupt priority is 2

001 = Interrupt priority is 1

000 = Interrupt is disabled

bit 17-16 **IS02<1:0>:** Interrupt Sub-priority bits

11 = Interrupt sub-priority is 3

10 = Interrupt sub-priority is 2

01 = Interrupt sub-priority is 1

00 = Interrupt sub-priority is 0

bit 15-13 **Unimplemented:** Read as '0'

Note: This register represents a generic definition of the IPCx register. Refer to Table 7-1 for the exact bit definitions.

Note 1: This register has corresponding CLR, SET and INV registers at its virtual address, plus an offset of 0x4, 0x8 and 0xC, respectively. See **Section 12.1.1 “CLR, SET and INV Registers”** for more information.
2: Reset value is dependent on DEVCFGx configuration.

TABLE 10-3: DMA CHANNELS 0-7 REGISTER MAP (CONTINUED)

Virtual Address (BF88_#)	Register Name ⁽¹⁾	Bit Range	Bits																All Resets
			31/15	30/14	29/13	28/12	27/11	26/10	25/9	24/8	23/7	22/6	21/5	20/4	19/3	18/2	17/1	16/0	
3290	DCH2DAT	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	—	—	—	—	—	—	—	CHPDAT<7:0>									
32A0	DCH3CON	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHBUSY	—	—	—	—	—	—	CHCHNS	CHEN	CHAED	CHCHN	CHAEN	—	CHEDET	CHPRI<1:0>		0000
32B0	DCH3ECON	31:16	—	—	—	—	—	—	—	—	CHAIRQ<7:0>								00FF
		15:0	CHSIRQ<7:0>									CFORCE	CABORT	PATEN	SIRQEN	AIRQEN	—	—	—
32C0	DCH3INT	31:16	—	—	—	—	—	—	—	—	CHSDIE	CHSHIE	CHDDIE	CHDHIE	CHBCIE	CHCCIE	CHTAIE	CHERIE	0000
		15:0	—	—	—	—	—	—	—	—	CHSDIF	CHSHIF	CHDDIF	CHDHIF	CHBCIF	CHCCIF	CHTAIF	CHERIF	0000
32D0	DCH3SSA	31:16	CHSSA<31:0>																0000
		15:0																	0000
32E0	DCH3DSA	31:16	CHDSA<31:0>																0000
		15:0																	0000
32F0	DCH3SSIZ	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHSSIZ<15:0>																0000
3300	DCH3DSIZ	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHDSIZ<15:0>																0000
3310	DCH3SPTR	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHSPTR<15:0>																0000
3320	DCH3DPTR	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHDPTR<15:0>																0000
3330	DCH3CSIZ	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHCSIZ<15:0>																0000
3340	DCH3CPTR	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHCPTR<15:0>																0000
3350	DCH3DAT	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	—	—	—	—	—	—	—	—	CHPDAT<7:0>								
3360	DCH4CON	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	CHBUSY	—	—	—	—	—	—	CHCHNS	CHEN	CHAED	CHCHN	CHAEN	—	CHEDET	CHPRI<1:0>		0000
3370	DCH4ECON	31:16	—	—	—	—	—	—	—	—	CHAIRQ<7:0>								00FF
		15:0	CHSIRQ<7:0>									CFORCE	CABORT	PATEN	SIRQEN	AIRQEN	—	—	—
3380	DCH4INT	31:16	—	—	—	—	—	—	—	—	CHSDIE	CHSHIE	CHDDIE	CHDHIE	CHBCIE	CHCCIE	CHTAIE	CHERIE	0000
		15:0	—	—	—	—	—	—	—	—	CHSDIF	CHSHIF	CHDDIF	CHDHIF	CHBCIF	CHCCIF	CHTAIF	CHERIF	0000
3390	DCH4SSA	31:16	CHSSA<31:0>																0000
		15:0																	0000
33A0	DCH4DSA	31:16	CHDSA<31:0>																0000
		15:0																	0000

Legend: x = unknown value on Reset; — = unimplemented, read as '0'. Reset values are shown in hexadecimal.

- Note 1:** All registers in this table have corresponding CLR, SET and INV registers at their virtual addresses, plus offsets of 0x4, 0x8 and 0xC, respectively. See **Section 12.1.1 “CLR, SET and INV Registers”** for more information.
- Note 2:** DMA channels 4-7 are not available on PIC32MX534/564/664/764 devices.

REGISTER 10-1: DMACON: DMA CONTROLLER CONTROL REGISTER

Bit Range	Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
31:24	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—
23:16	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—
15:8	R/W-0	U-0	U-0	R/W-0	R/W-0	U-0	U-0	U-0
	ON ⁽¹⁾	—	—	SUSPEND	DMABUSY	—	—	—
7:0	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—

Legend:

R = Readable bit

W = Writable bit

U = Unimplemented bit, read as '0'

-n = Value at POR

'1' = Bit is set

'0' = Bit is cleared

x = Bit is unknown

bit 31-16 **Unimplemented:** Read as '0'

bit 15 **ON:** DMA On bit⁽¹⁾

1 = DMA module is enabled

0 = DMA module is disabled

bit 14-13 **Unimplemented:** Read as '0'

bit 12 **SUSPEND:** DMA Suspend bit

1 = DMA transfers are suspended to allow CPU uninterrupted access to data bus

0 = DMA operates normally

bit 11 **DMABUSY:** DMA Module Busy bit

1 = DMA module is active

0 = DMA module is disabled and not actively transferring data

bit 10-0 **Unimplemented:** Read as '0'

Note 1: When using the 1:1 PBCLK divisor, the user's software should not read/write the peripheral's SFRs in the SYSCLK cycle immediately following the instruction that clears the module's ON bit.

TABLE 12-3: PORTC REGISTER MAP FOR PIC32MX534F064H, PIC32MX564F064H, PIC32MX564F128H, PIC32MX575F256H, PIC32MX575F512H, PIC32MX664F064H, PIC32MX664F128H, PIC32MX675F256H, PIC32MX675F512H, PIC32MX695F512H, PIC32MX764F128H, PIC32MX775F256H, PIC32MX775F512H AND PIC32MX795F512H DEVICES

Virtual Address (BF88_#)	Register Name ⁽¹⁾	Bit Range	Bits																All Resets
			31/15	30/14	29/13	28/12	27/11	26/10	25/9	24/8	23/7	22/6	21/5	20/4	19/3	18/2	17/1	16/0	
6080	TRISC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	TRISC15	TRISC14	TRISC13	TRISC12	—	—	—	—	—	—	—	—	—	—	—	—	F000
6090	PORTC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	RC15	RC14	RC13	RC12	—	—	—	—	—	—	—	—	—	—	—	—	xxxx
60A0	LATC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	LATC15	LATC14	LATC13	LATC12	—	—	—	—	—	—	—	—	—	—	—	—	xxxx
60B0	ODCC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	ODCC15	ODCC14	ODCC13	ODCC12	—	—	—	—	—	—	—	—	—	—	—	—	0000

Legend: x = unknown value on Reset; — = unimplemented, read as '0'. Reset values are shown in hexadecimal.

Note 1: All registers in this table have corresponding CLR, SET and INV registers at their virtual addresses, plus offsets of 0x4, 0x8 and 0xC, respectively. See **Section 12.1.1 “CLR, SET and INV Registers”** for more information.

TABLE 12-4: PORTC REGISTER MAP FOR PIC32MX534F064L, PIC32MX564F064L, PIC32MX564F128L, PIC32MX575F256L, PIC32MX575F512L, PIC32MX664F064L, PIC32MX664F128L, PIC32MX675F256L, PIC32MX675F512L, PIC32MX695F512L, PIC32MX764F128L, PIC32MX775F256L, PIC32MX775F512L AND PIC32MX795F512L DEVICES

Virtual Address (BF88_#)	Register Name ⁽¹⁾	Bit Range	Bits																All Resets
			31/15	30/14	29/13	28/12	27/11	26/10	25/9	24/8	23/7	22/6	21/5	20/4	19/3	18/2	17/1	16/0	
6080	TRISC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	TRISC15	TRISC14	TRISC13	TRISC12	—	—	—	—	—	—	—	TRISC4	TRISC3	TRISC2	TRISC1	—	F00F
6090	PORTC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	RC15	RC14	RC13	RC12	—	—	—	—	—	—	—	RC4	RC3	RC2	RC1	—	xxxx
60A0	LATC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	LATC15	LATC14	LATC13	LATC12	—	—	—	—	—	—	—	LATC4	LATC3	LATC2	LATC1	—	xxxx
60B0	ODCC	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	ODCC15	ODCC14	ODCC13	ODCC12	—	—	—	—	—	—	—	ODCC4	ODCC3	ODCC2	ODCC1	—	0000

Legend: x = unknown value on Reset; — = unimplemented, read as '0'. Reset values are shown in hexadecimal.

Note 1: All registers in this table have corresponding CLR, SET and INV registers at their virtual addresses, plus offsets of 0x4, 0x8 and 0xC, respectively. See **Section 12.1.1 “CLR, SET and INV Registers”** for more information.

REGISTER 14-1: TXCON: TYPE B TIMER CONTROL REGISTER (CONTINUED)

bit 3	T32: 32-Bit Timer Mode Select bit ⁽²⁾ 1 = Odd numbered and even numbered timers form a 32-bit timer 0 = Odd numbered and even numbered timers form a separate 16-bit timer
bit 2	Unimplemented: Read as '0'
bit 1	TCS: Timer Clock Source Select bit ⁽³⁾ 1 = External clock from TxCK pin 0 = Internal peripheral clock
bit 0	Unimplemented: Read as '0'

- Note 1:** When using the 1:1 PBCLK divisor, the user's software should not read/write the peripheral SFRs in the SYSCLK cycle immediately following the instruction that clears the module's ON bit.
- 2:** This bit is only available on even numbered timers (Timer2 and Timer4).
- 3:** While operating in 32-bit mode, this bit has no effect for odd numbered timers (Timer1, Timer3, and Timer5). All timer functions are set through the even numbered timers.
- 4:** While operating in 32-bit mode, this bit must be cleared on odd numbered timers to enable the 32-bit timer in Idle mode.

PIC32MX5XX/6XX/7XX

REGISTER 18-2: SPIxSTAT: SPI STATUS REGISTER

- bit 1 **SPITBF:** SPI Transmit Buffer Full Status bit
1 = Transmit not yet started, SPITXB is full
0 = Transmit buffer is not full
Standard Buffer Mode:
Automatically set in hardware when the core writes to the SPIBUF location, loading SPITXB.
Automatically cleared in hardware when the SPI module transfers data from SPITXB to SPISR.

Enhanced Buffer Mode:
Set when CWPTR + 1 = SRPTR; cleared otherwise
- bit 0 **SPIRBF:** SPI Receive Buffer Full Status bit
1 = Receive buffer, SPIRXB is full
0 = Receive buffer, SPIRXB is not full
Standard Buffer Mode:
Automatically set in hardware when the SPI module transfers data from SPIxSR to SPIRXB.
Automatically cleared in hardware when SPIxBUF is read from, reading SPIRXB.

Enhanced Buffer Mode:
Set when SWPTR + 1 = CRPTR; cleared otherwise

19.0 INTER-INTEGRATED CIRCUIT (I²C)

Note: This data sheet summarizes the features of the PIC32MX5XX/6XX/7XX family of devices. It is not intended to be a comprehensive reference source. To complement the information in this data sheet, refer to **Section 24. “Inter-Integrated Circuit (I²C)”** (DS60001116) in the *“PIC32 Family Reference Manual”*, which is available from the Microchip web site (www.microchip.com/PIC32).

The I²C module provides complete hardware support for both Slave and Multi-Master modes of the I²C serial communication standard. Figure 19-1 illustrates the I²C module block diagram.

Each I²C module has a 2-pin interface: the SCLx pin is clock and the SDAx pin is data.

Each I²C module offers the following key features:

- I²C interface supporting both master and slave operation
- I²C Slave mode supports 7-bit and 10-bit addressing
- I²C Master mode supports 7-bit and 10-bit addressing
- I²C port allows bidirectional transfers between master and slaves
- Serial clock synchronization for the I²C port can be used as a handshake mechanism to suspend and resume serial transfer (SCLREL control)
- I²C supports multi-master operation; detects bus collision and arbitrates accordingly
- Provides support for address bit masking

21.0 PARALLEL MASTER PORT (PMP)

Note: This data sheet summarizes the features of the PIC32MX5XX/6XX/7XX family of devices. It is not intended to be a comprehensive reference source. To complement the information in this data sheet, refer to **Section 13. “Parallel Master Port (PMP)”** (DS60001128) in the “PIC32 Family Reference Manual”, which is available from the Microchip web site (www.microchip.com/PIC32).

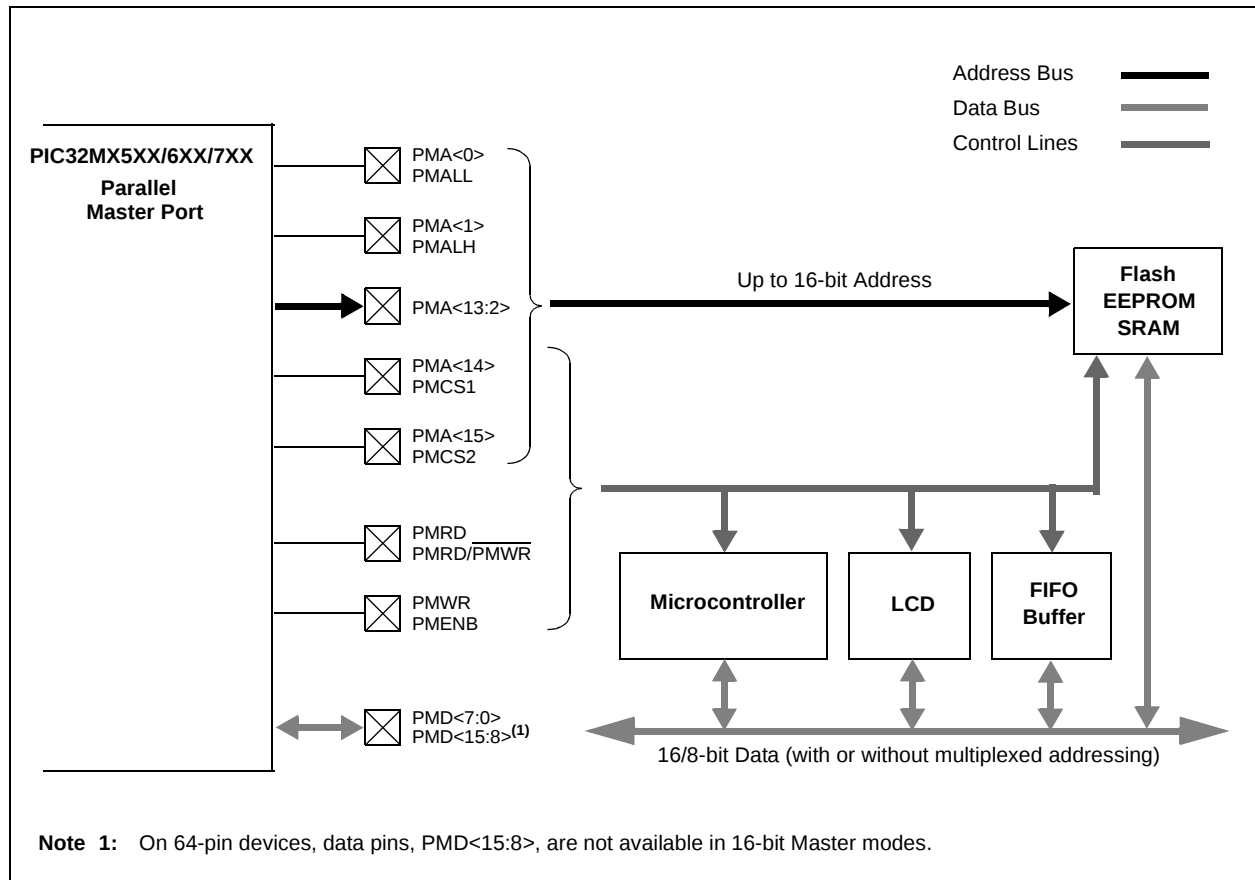
The PMP is a parallel 8-bit/16-bit input/output module specifically designed to communicate with a wide variety of parallel devices, such as communications peripherals, LCDs, external memory devices and microcontrollers. Because the interface to parallel peripherals varies significantly, the PMP module is highly configurable. Figure 21-1 shows the PMP module pinout and its connections to external devices.

The following are key features of the PMP module:

- 8-bit and 16-bit interface
- Up to 16 programmable address lines
- Up to two Chip Select lines
- Programmable strobe options
 - Individual read and write strobes, or
 - Read/Write strobe with enable strobe
- Address auto-increment/auto-decrement
- Programmable address/data multiplexing
- Programmable polarity on control signals
- Parallel Slave Port support
 - Legacy addressable
 - Address support
 - 4-byte deep auto-incrementing buffer
- Programmable wait states
- Operates during Sleep and Idle modes
- Fast bit manipulation using CLR, SET and INV registers

Note: On 64-pin devices, the PMD<15:8> data pins are not available.

FIGURE 21-1: PMP MODULE PINOUT AND CONNECTIONS TO EXTERNAL DEVICES



PIC32MX5XX/6XX/7XX

REGISTER 24-2: CCFG: CAN BAUD RATE CONFIGURATION REGISTER

Bit Range	Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
31:24	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—
23:16	U-0	R/W-0	U-0	U-0	U-0	R/W-0	R/W-0	R/W-0
	—	WAKFIL	—	—	—	SEG2PH<2:0> ^(1,4)		
15:8	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	SEG2PHTS ⁽¹⁾	SAM ⁽²⁾	SEG1PH<2:0>			PRSEG<2:0>		
7:0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	SJW<1:0> ⁽³⁾		BRP<5:0>					

Legend:

R = Readable bit

-n = Value at POR

HC = Hardware Clear

W = Writable bit

'1' = Bit is set

S = Settable bit

U = Unimplemented bit, read as '0'

'0' = Bit is cleared

x = Bit is unknown

bit 31-23 **Unimplemented:** Read as '0'

bit 22 **WAKFIL:** CAN Bus Line Filter Enable bit

1 = Use CAN bus line filter for wake-up

0 = CAN bus line filter is not used for wake-up

bit 21-19 **Unimplemented:** Read as '0'

bit 18-16 **SEG2PH<2:0>:** Phase Buffer Segment 2 bits^(1,4)

111 = Length is 8 x Tq

•
•
•

000 = Length is 1 x Tq

bit 15 **SEG2PHTS:** Phase Segment 2 Time Select bit⁽¹⁾

1 = Freely programmable

0 = Maximum of SEG1PH or Information Processing Time, whichever is greater

bit 14 **SAM:** Sample of the CAN Bus Line bit⁽²⁾

1 = Bus line is sampled three times at the sample point

0 = Bus line is sampled once at the sample point

bit 13-11 **SEG1PH<2:0>:** Phase Buffer Segment 1 bits⁽⁴⁾

111 = Length is 8 x Tq

•
•
•

000 = Length is 1 x Tq

Note 1: $SEG2PH \leq SEG1PH$. If SEG2PHTS is clear, SEG2PH will be set automatically.

2: 3 Time bit sampling is not allowed for BRP < 2.

3: $SJW \leq SEG2PH$.

4: The Time Quanta per bit must be greater than 7 (that is, TQBIT > 7).

Note: This register can only be modified when the CAN module is in Configuration mode (OPMOD<2:0> (CiCON<23:21>) = 100).

PIC32MX5XX/6XX/7XX

REGISTER 24-10: CiFLTCON0: CAN FILTER CONTROL REGISTER 0

Bit Range	Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
31:24	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	FLTEN3	MSEL3<1:0>		FSEL3<4:0>				
23:16	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	FLTEN2	MSEL2<1:0>		FSEL2<4:0>				
15:8	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	FLTEN1	MSEL1<1:0>		FSEL1<4:0>				
7:0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0	R/W-0
	FLTEN0	MSEL0<1:0>		FSEL0<4:0>				

Legend:

R = Readable bit

W = Writable bit

U = Unimplemented bit, read as '0'

-n = Value at POR

'1' = Bit is set

'0' = Bit is cleared

x = Bit is unknown

bit 31 **FLTEN3:** Filter 3 Enable bit

1 = Filter is enabled

0 = Filter is disabled

bit 30-29 **MSEL3<1:0>:** Filter 3 Mask Select bits

11 = Acceptance Mask 3 selected

10 = Acceptance Mask 2 selected

01 = Acceptance Mask 1 selected

00 = Acceptance Mask 0 selected

bit 28-24 **FSEL3<4:0>:** FIFO Selection bits

11111 = Message matching filter is stored in FIFO buffer 31

11110 = Message matching filter is stored in FIFO buffer 30

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00001 = Message matching filter is stored in FIFO buffer 1

00000 = Message matching filter is stored in FIFO buffer 0

bit 23 **FLTEN2:** Filter 2 Enable bit

1 = Filter is enabled

0 = Filter is disabled

bit 22-21 **MSEL2<1:0>:** Filter 2 Mask Select bits

11 = Acceptance Mask 3 selected

10 = Acceptance Mask 2 selected

01 = Acceptance Mask 1 selected

00 = Acceptance Mask 0 selected

bit 20-16 **FSEL2<4:0>:** FIFO Selection bits

11111 = Message matching filter is stored in FIFO buffer 31

11110 = Message matching filter is stored in FIFO buffer 30

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00001 = Message matching filter is stored in FIFO buffer 1

00000 = Message matching filter is stored in FIFO buffer 0

Note: The bits in this register can only be modified if the corresponding filter enable (FLTENN) bit is '0'.

TABLE 25-5: ETHERNET CONTROLLER REGISTER SUMMARY FOR PIC32MX664F064H, PIC32MX664F128H, PIC32MX664F064L, PIC32MX664F128L, PIC32MX675F256H, PIC32MX675F512H, PIC32MX695F512H, PIC32MX775F256H, PIC32MX775F512H, PIC32MX795F512H, PIC32MX695F512L, PIC32MX675F256L, PIC32MX675F512L, PIC32MX764F128H, PIC32MX764F128L, PIC32MX775F256L, PIC32MX775F512L AND PIC32MX795F512L DEVICES (CONTINUED)

Virtual Address (BF88_#)	Register Name ⁽¹⁾	Bit Range	Bits																All Resets
			31/15	30/14	29/13	28/12	27/11	26/10	25/9	24/8	23/7	22/6	21/5	20/4	19/3	18/2	17/1	16/0	
9260	EMAC1 SUPP	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	—	—	—	—	RESET RMII	—	—	SPEED RMII	—	—	—	—	—	—	—	—	1000
9270	EMAC1 TEST	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	—	—	—	—	—	—	—	—	—	—	—	—	—	TESTBP	TESTPAUSE	SHRTQNTA	0000
9280	EMAC1 MCFG	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	RESET MGMT	—	—	—	—	—	—	—	—	—	CLKSEL<3:0>				NOPRE	SCANINC	0020
9290	EMAC1 MCMD	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	SCAN	READ	0000
92A0	EMAC1 MADR	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	—	—	—	PHYADDR<4:0>					—	—	—	REGADDR<4:0>					0100
92B0	EMAC1 MWTD	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	MWTD<15:0>																0000
92C0	EMAC1 MRDD	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	MRDD<15:0>																0000
92D0	EMAC1 MIND	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0000
		15:0	—	—	—	—	—	—	—	—	—	—	—	—	LINKFAIL	NOTVALID	SCAN	MIIMBUSY	0000
9300	EMAC1 SA0 ⁽²⁾	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	XXXX
		15:0	STNADDR6<7:0>								STNADDR5<7:0>								XXXX
9310	EMAC1 SA1 ⁽²⁾	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	XXXX
		15:0	STNADDR4<7:0>								STNADDR3<7:0>								XXXX
9320	EMAC1 SA2 ⁽²⁾	31:16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	XXXX
		15:0	STNADDR2<7:0>								STNADDR1<7:0>								XXXX

Legend: x = unknown value on Reset; — = unimplemented, read as '0'. Reset values are shown in hexadecimal.

Note 1: All registers in this table (with the exception of ETHSTAT) have corresponding CLR, SET and INV registers at their virtual addresses, plus offsets of 0x4, 0x8 and 0xC, respectively. See **Section 12.1.1 "CLR, SET and INV Registers"** for more information.

2: Reset values default to the factory programmed value.

PIC32MX5XX/6XX/7XX

REGISTER 25-2: ETHCON2: ETHERNET CONTROLLER CONTROL REGISTER 2

Bit Range	Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
31:24	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—
23:16	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—
15:8	U-0	U-0	U-0	U-0	U-0	R/W-0	R/W-0	R/W-0
	—	—	—	—	—	RXBUFSZ<6:4>		
7:0	R/W-0	R/W-0	R/W-0	R/W-0	U-0	U-0	U-0	U-0
	RXBUFSZ<3:0>				—	—	—	—

Legend:

R = Readable bit

W = Writable bit

U = Unimplemented bit, read as '0'

-n = Value at POR

'1' = Bit is set

'0' = Bit is cleared

x = Bit is unknown

bit 31-11 **Unimplemented:** Read as '0'

bit 10-4 **RXBUFSZ<6:0>:** RX Data Buffer Size for All RX Descriptors (in 16-byte increments) bits

1111111 = RX data Buffer size for descriptors is 2032 bytes

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0000011 = RX data Buffer size for descriptors is 48 bytes

0000010 = RX data Buffer size for descriptors is 32 bytes

0000001 = RX data Buffer size for descriptors is 16 bytes

0000000 = Reserved

bit 3-0 **Unimplemented:** Read as '0'

Note 1: This register is only used for RX operations.

2: The bits in this register may only be changed while the RXEN bit (ETHCON1<8>) = 0.

REGISTER 26-1: CMxCON: COMPARATOR 'x' CONTROL REGISTER

Bit Range	Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
31:24	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—
23:16	U-0	U-0	U-0	U-0	U-0	U-0	U-0	U-0
	—	—	—	—	—	—	—	—
15:8	R/W-0	R/W-0	R/W-0	U-0	U-0	U-0	U-0	R-0
	ON ⁽¹⁾	COE	CPOL ⁽²⁾	—	—	—	—	COUT
7:0	R/W-1	R/W-1	U-0	R/W-0	U-0	U-0	R/W-1	R/W-1
	EVPOL<1:0>		—	CREF	—	—	CCH<1:0>	

Legend:

R = Readable bit

W = Writable bit

U = Unimplemented bit, read as '0'

-n = Value at POR

'1' = Bit is set

'0' = Bit is cleared

x = Bit is unknown

bit 31-16 **Unimplemented:** Read as '0'

bit 15 **ON:** Comparator ON bit⁽¹⁾

Clearing this bit does not affect the other bits in this register.

1 = Module is enabled. Setting this bit does not affect the other bits in this register

0 = Module is disabled and does not consume current.

bit 14 **COE:** Comparator Output Enable bit

1 = Comparator output is driven on the output CxOUT pin

0 = Comparator output is not driven on the output CxOUT pin

bit 13 **CPOL:** Comparator Output Inversion bit⁽²⁾

1 = Output is inverted

0 = Output is not inverted

bit 12-9 **Unimplemented:** Read as '0'

bit 8 **COUT:** Comparator Output bit

1 = Output of the Comparator is a '1'

0 = Output of the Comparator is a '0'

bit 7-6 **EVPOL<1:0>:** Interrupt Event Polarity Select bits

11 = Comparator interrupt is generated on a low-to-high or high-to-low transition of the comparator output

10 = Comparator interrupt is generated on a high-to-low transition of the comparator output

01 = Comparator interrupt is generated on a low-to-high transition of the comparator output

00 = Comparator interrupt generation is disabled

bit 5 **Unimplemented:** Read as '0'

bit 4 **CREF:** Comparator Positive Input Configure bit

1 = Comparator non-inverting input is connected to the internal CVREF

0 = Comparator non-inverting input is connected to the CxIN+ pin

bit 3-2 **Unimplemented:** Read as '0'

bit 1-0 **CCH<1:0>:** Comparator Negative Input Select bits for Comparator

11 = Comparator inverting input is connected to the IVREF

10 = Comparator inverting input is connected to the C2IN+ pin for C1 and C1IN+ pin for C2

01 = Comparator inverting input is connected to the C1IN+ pin for C1 and C2IN+ pin for C2

00 = Comparator inverting input is connected to the C1IN- pin for C1 and C2IN- pin for C2

Note 1: When using the 1:1 PBCLK divisor, the user's software should not read/write the peripheral's SFRs in the SYSCLK cycle immediately following the instruction that clears the module's ON bit.

2: Setting this bit will invert the signal to the comparator interrupt generator as well. This will result in an interrupt being generated on the opposite edge from the one selected by EVPOL<1:0>.

PIC32MX5XX/6XX/7XX

REGISTER 29-1: DEVCFG0: DEVICE CONFIGURATION WORD 0

Bit Range	Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
31:24	r-0	r-1	r-1	R/P	r-1	r-1	r-1	R/P
	—	—	—	CP	—	—	—	BWP
23:16	r-1	r-1	r-1	r-1	R/P	R/P	R/P	R/P
	—	—	—	—	PWP<7:4>			
15:8	R/P	R/P	R/P	R/P	r-1	r-1	r-1	r-1
	PWP<3:0>				—	—	—	—
7:0	r-1	r-1	r-1	r-1	R/P	r-1	R/P	R/P
	—	—	—	—	ICSEL	—	DEBUG<1:0>	

Legend:

R = Readable bit

-n = Value at POR

r = Reserved bit

W = Writable bit

'1' = Bit is set

P = Programmable bit

U = Unimplemented bit, read as '0'

'0' = Bit is cleared

x = Bit is unknown

bit 31 **Reserved:** Write '0'

bit 30-29 **Reserved:** Write '1'

bit 28 **CP:** Code-Protect bit

Prevents boot and program Flash memory from being read or modified by an external programming device.

1 = Protection is disabled

0 = Protection is enabled

bit 27-25 **Reserved:** Write '1'

bit 24 **BWP:** Boot Flash Write-Protect bit

Prevents boot Flash memory from being modified during code execution.

1 = Boot Flash is writable

0 = Boot Flash is not writable

bit 23-20 **Reserved:** Write '1'

bit 19-12 **PWP<7:0>:** Program Flash Write-Protect bits

Prevents selected program Flash memory pages from being modified during code execution. The PWP bits represent the 1's complement of the number of write-protected program Flash memory pages.

11111111 = Disabled

11111110 = 0xBD00_0FFF

11111101 = 0xBD00_1FFF

11111100 = 0xBD00_2FFF

11111011 = 0xBD00_3FFF

11111010 = 0xBD00_4FFF

11111001 = 0xBD00_5FFF

11111000 = 0xBD00_6FFF

11110111 = 0xBD00_7FFF

11110110 = 0xBD00_8FFF

11110101 = 0xBD00_9FFF

11110100 = 0xBD00_AFFF

11110011 = 0xBD00_BFFF

11110010 = 0xBD00_CFFF

11110001 = 0xBD00_DFFF

11110000 = 0xBD00_EFFF

11101111 = 0xBD00_FFFF

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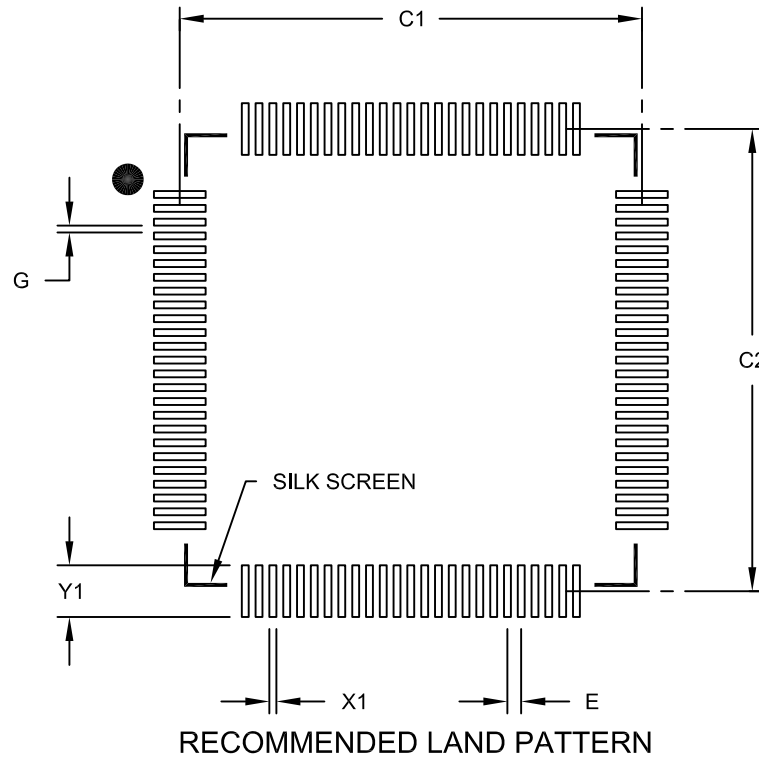
01111111 = 0xBD07_FFFF

bit 11-4 **Reserved:** Write '1'

PIC32MX5XX/6XX/7XX

100-Lead Plastic Thin Quad Flatpack (PT)-12x12x1mm Body, 2.00 mm Footprint [TQFP]

Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



	Units	MILLIMETERS		
		MIN	NOM	MAX
Contact Pitch	E		0.40 BSC	
Contact Pad Spacing	C1		13.40	
Contact Pad Spacing	C2		13.40	
Contact Pad Width (X100)	X1			0.20
Contact Pad Length (X100)	Y1			1.50
Distance Between Pads	G	0.20		

Notes:

1. Dimensioning and tolerancing per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

Microchip Technology Drawing No. C04-2100B