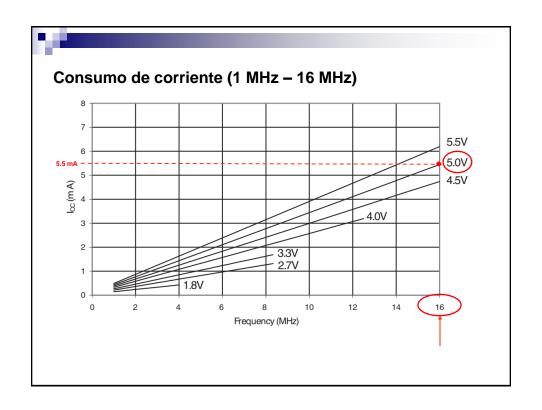
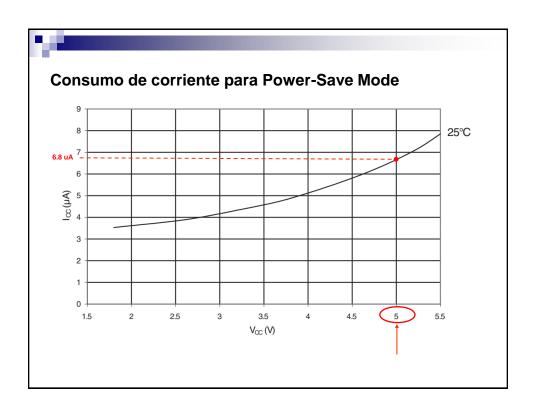




Timer2/Counter2 (8 bits):

- · Contador de un solo canal
- Borrado del Temporizador si coincide en comparación (Auto-Reload)
- · Modulación por ancho de pulso (PWM)
- · Generador de Frecuencia
- Pre-escalador de 10-bit
- Interrupción por sobre flujo y en comparación exitosa (TOV2 y OCF2A y OCF2B)
- Permite fuente de oscilación externa de 32 KHz independiente del reloj principal



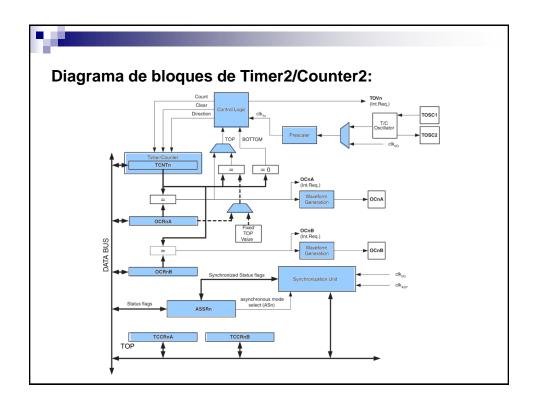


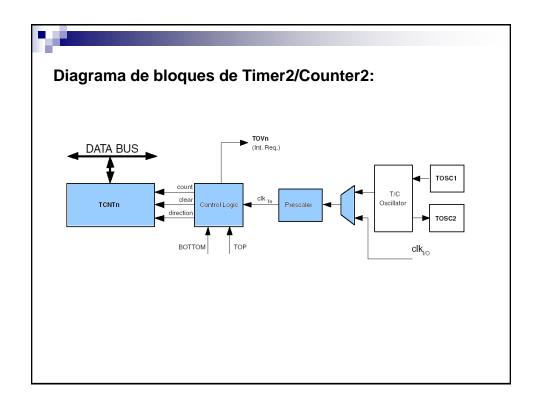


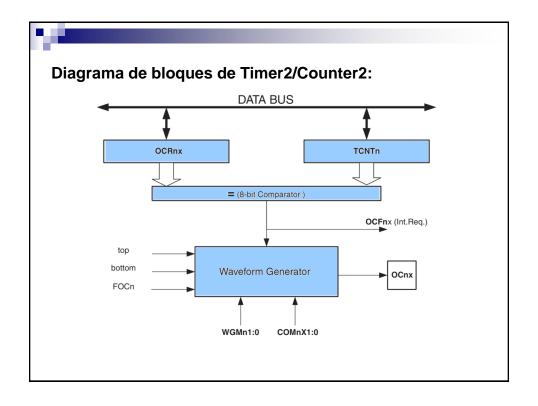
Sleep Modes

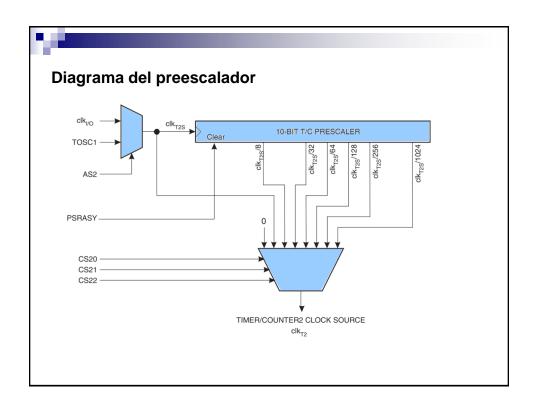
	Active Clock Domains				Oscill	ators	Wake-up Sources							
Sleep Mode	clk _{CPU}	CIKFLASH	clk _{io}	clk _{ADC}	clk _{ASY}	Main Clock Source Enabled	Timer Osc Enabled	INT7:0 and Pin Change	TWI Address Match	Timer2	SPM/ EEPROM Ready	ADC	WDT Interrupt	Other I/O
Idle			Х	Х	Х	х	X ⁽²⁾	Х	Х	Х	Х	Х	Х	Х
ADCNRM				Х	Х	х	X ⁽²⁾	X ⁽³⁾	Х	X ⁽²⁾	Х	Х	Х	
Power-down								X ⁽³⁾	Х				Х	
Power-save					Х		X ⁽²⁾	X ⁽³⁾	Х	Х			Х	
Standby ⁽¹⁾						Х		X ⁽³⁾	Х				Х	
Extended Standby					X ⁽²⁾	Х	X ⁽²⁾	X ⁽³⁾	Х	Х			Х	

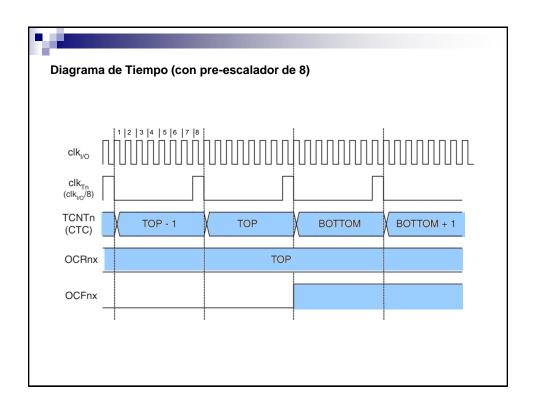
- 1. Only recommended with external crystal or resonator selected as clock source.
 - 2. If Timer/Counter2 is running in asynchronous mode.
 3. For INT7:4, only level interrupt.









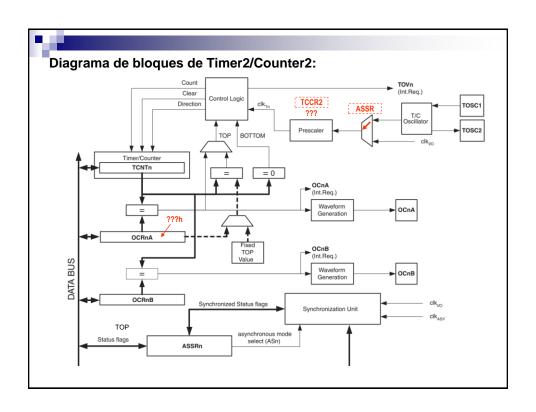




Waveform Generator Mode

Mode	WGM2	WGM1	WGM0	Timer/Counter Mode of Operation	ТОР	Update of OCRx at	TOV Flag Set on ⁽¹⁾⁽²⁾
0	0	0	0	Normal	0xFF	Immediate	MAX
1	0	0	1	PWM, Phase Correct	0xFF	TOP	воттом
2	0	1	0	СТС	OCRA	Immediate	MAX
3	0	1	1	Fast PWM	0xFF	воттом	MAX
4	1	0	0	Reserved	-	_	_
5	1	0	1	PWM, Phase Correct	OCRA	TOP	воттом
6	1	1	0	Reserved	-	_	_
7	1	1	1	Fast PWM	OCRA	воттом	TOP

Notes: 1. MAX = 0xFF. 2. BOTTOM= 0x00.





A safe procedure for switching clock source is:

- 1. Disable the Timer/Counter2 interrupts by clearing OCIE2x and TOIE2.
- 2. Select clock source by setting AS2 as appropriate.
- 3. Write new values to TCNT2, OCR2x, and TCCR2x.
- 4. To switch to asynchronous operation: Wait for TCN2UB, OCR2xUB, and TCR2xUB.
- 5. Clear the Timer/Counter2 Interrupt Flags.
- 6. Enable interrupts, if needed.