Zilog - ZGP323HEH4816C00TR Datasheet

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What is "Embedded - Microcontrollers"?

"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	Obsolete
Core Processor	Z8
Core Size	8-Bit
Speed	8MHz
Connectivity	-
Peripherals	HLVD, POR, WDT
Number of I/O	32
Program Memory Size	16KB (16K x 8)
Program Memory Type	OTP
EEPROM Size	-
RAM Size	237 x 8
Voltage - Supply (Vcc/Vdd)	2V ~ 5.5V
Data Converters	-
Oscillator Type	Internal
Operating Temperature	-40°C ~ 105°C (TA)
Mounting Type	Surface Mount
Package / Case	48-BSSOP (0.295", 7.50mm Width)
Supplier Device Package	-
Purchase URL	https://www.e-xfl.com/product-detail/zilog/zgp323heh4816c00tr

Revision History

Each instance in Table 1 reflects a change to this document from its previous revision. To see more detail, click the appropriate link in the table.

Table 1. Revision History of this Document

Date	Revision Level	Section	Description	Page #
December 2004	02		Changed low power consumption, STOP and HALT mode current values, deleted mask option note, clarified temperature ranges in Tables 6 and 8 and 10. Added new Tables 9 and 10. Also added Characterization data to Table 11 and changed Program/Erase Endurance value in Table 12.	1,2,10 11,12, 13,14, 15
			Removed Preliminary designation	All
March 2005	03		Minor change to Table 9 Electrical Characteristics. Added 20, 28 and 40-pin CDIP parts in the Ordering Section.	11,90

into LO8; if it is a negative edge, data is put into HI8. From that point, one of the edge detect status bits (CTR1, D1; D0) is set, and an interrupt can be generated if enabled (CTR0, D2). Meanwhile, T8 is loaded with FFh and starts counting again. If T8 reaches 0, the timeout status bit (CTR0, D5) is set, and an interrupt can be generated if enabled (CTR0, D1). T8 then continues counting from FFH (see Figure 23 and Figure 24).

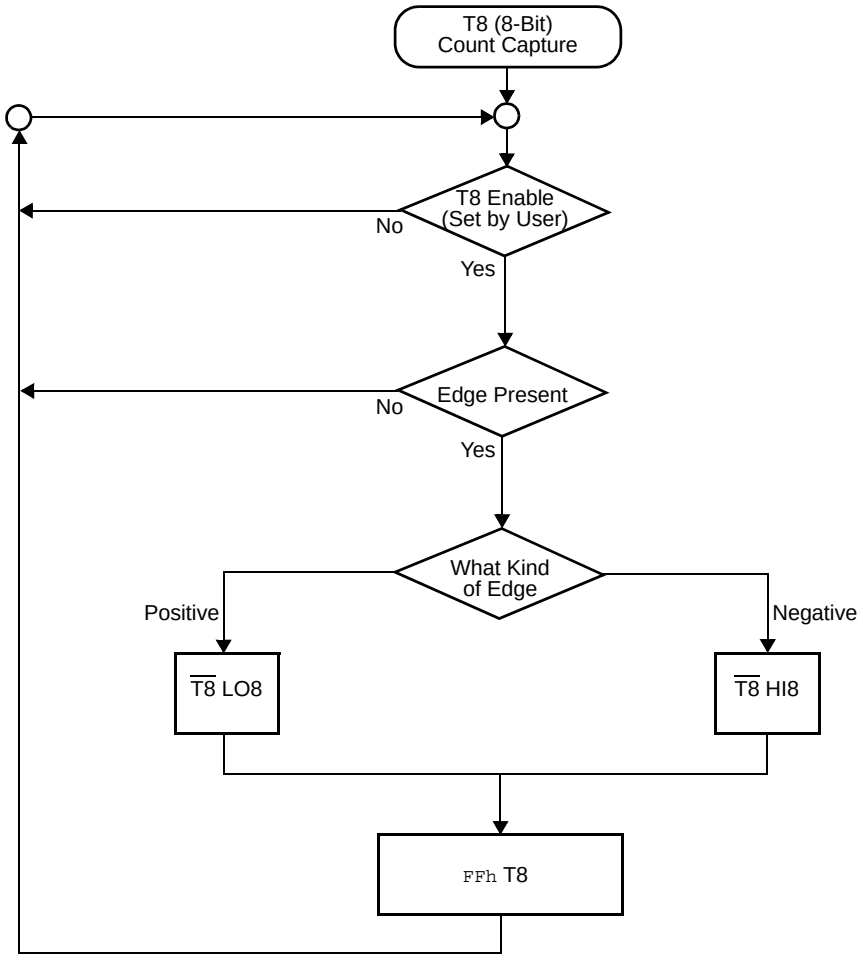
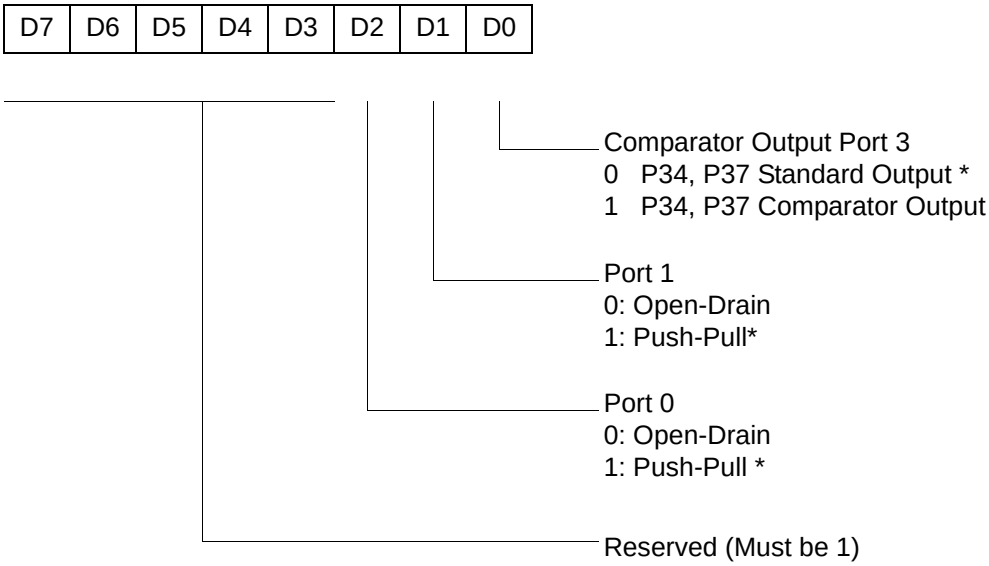


Figure 23. Demodulation Mode Count Capture Flowchart

PCON(0F)00H



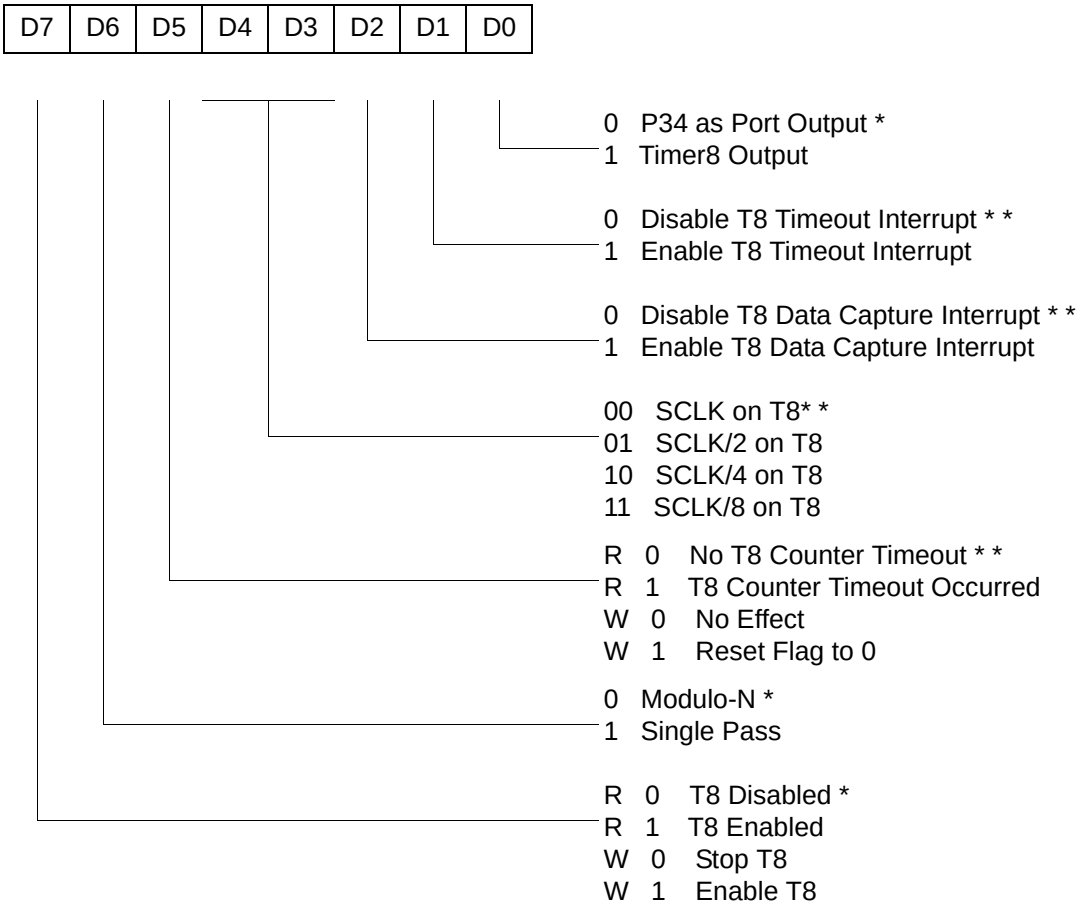
* Default setting after reset

Figure 44. Port Configuration Register (PCON)(0F)00H: Write Only)

Expanded Register File Control Registers (0D)

The expanded register file control registers (0D) are depicted in Figure 39 through Figure 43.

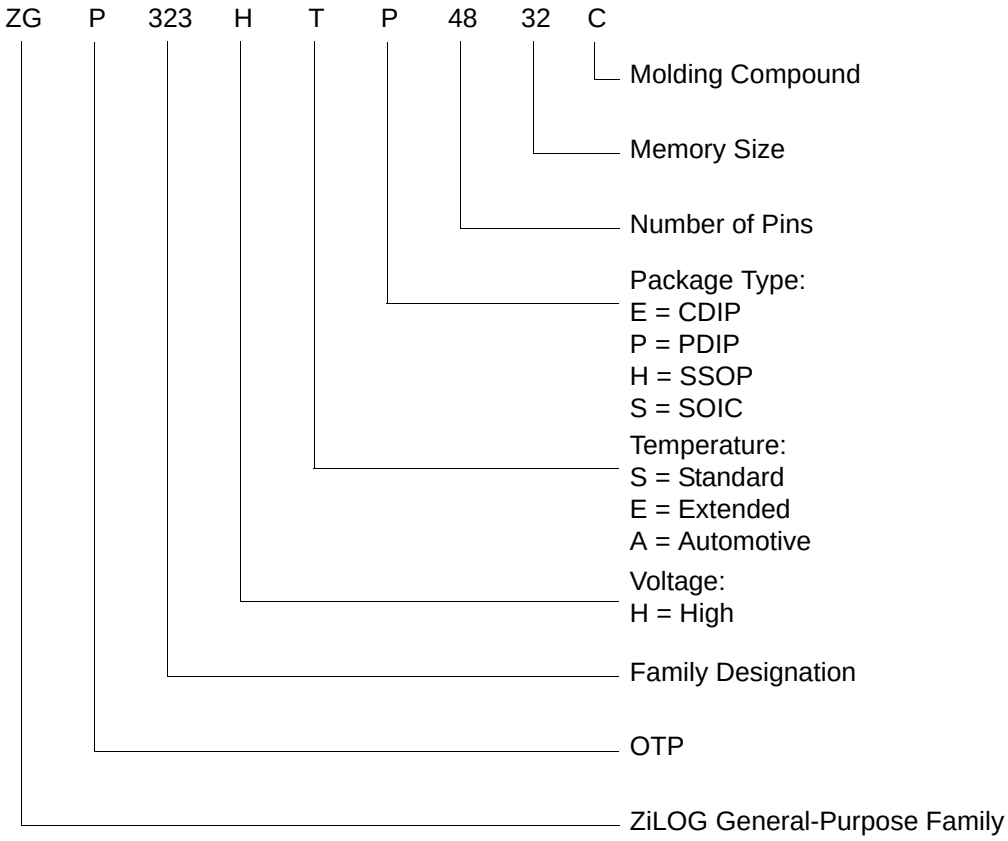
CTR0(0D)00H



* Default setting after reset.
* * Default setting after Reset.. Not reset with a Stop-Mode recovery.

Figure 39. TC8 Control Register ((0D)O0H: Read/Write Except Where Noted)

Example


ZG P 323 H T P 48 32 C
Molding Compound
Memory Size
Number of Pins
Package Type:
E = CDIP
P = PDIP
H = SSOP
S = SOIC
Temperature:
S = Standard
E = Extended
A = Automotive
Voltage:
H = High
Family Designation
OTP
ZiLOG General-Purpose Family