

Dual 8-Bit Parity Generator/Checker

Features

- Function, pinout and drive compatible with FCF and F logic
- FCT-A speed at 7.5 ns max. (Com'l) FCT-B speed at 5.6 ns max. (Com'l)
- Reduced V_{OII} (typically = 3.3V) versions of equivalent FCT functions
- Edge-rate control circuitry for significantly improved noise characteristics
- Power-off disable feature
- · Matched rise and fall times
- ESD > 2000V

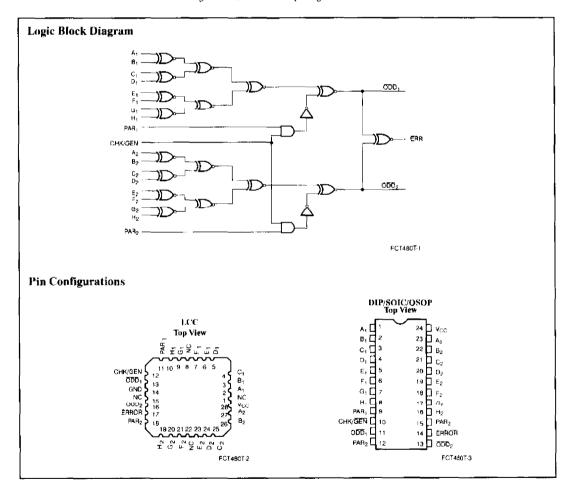
- Fully compatible with TTL input and output logic levels
- Sink Current 64 mA (Com'l), 32 mA (Mil) Source Current 32 mA (Com'l), 12 mA (Mil)
- Two 8 bit parity generator/checkers
- Open drain Active LOW parity error output
- Expandable for larger word widths

Functional Description

The FCT480T is a high-speed dual 8-bit parity generator/checker. Each parity generator/checker accepts eight data bits

and one parity bit as inputs, and generates a sum and parity error output. The FCT480T can be used in ODD parity systems. The parity error output is open-drain, designed for easy expansion of the word width by a wired-OR connection of several FCT480T type devices. Since additional logic is not needed, the parity generation or checking times remain the same as for an individual FCT480T device.

The outputs are designed with a power-off disable feature to allow for live insertion of boards.





Ordering Information

Speed (ns)	Ordering Code	Package Name	Package Type	Operating Range
5,6	CY74FCT480BTPC	P13/13A	24-Lead (300-Mil) Molded DIP	Commercial
	CY74FCT480BTQC	Q13	24-Lead (150-Mil) QSOP	
	CY74FCT480BTSOC	S 13	24-Lead (300-Mil) Molded SOIC	
7.0	CY54FCT480RTDMR	D14	24-Lead (300-Mil) CerDIP	Military
	CY54FCT480BTLMB	1.64	28-Square Leadless Chip Carrier	
7.5	CY74FCT480ATPC	P13/13A	24-Lead (300-Mil) Molded DIP	Commercial
	CY74FCT480ATQC	Q13	24-Lead (150-Mil) QSOP	***
	CY74FCT480ATSOC	S13	24-Lead (300-Mil) Molded SOIC	
9.5	CY54FCT480ATDMB	D14	24-Lead (300-Mil) CerDIP	Military
	CY54FCT480ATLMB	1.64	28 Square Leadless Chip Carrier	
13.0	CY74FCT480TPC	P13/13A	24-Lead (300-Mil) Molded DIP	Commercial
	CY74FCT480TQC	Q13	24-Lead (150-Mil) QSOP	
	CY74FCT480TSOC	S13	24-Lead (300-Mil) Molded SOIC	
17.0	CY54FCT480TDMB	D14	24-Lead (300-Mil) CerDIP	Military
	CY54FCT480TLMB	1.64	28-Square Leadless Chip Carrier	

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