



# CAT24CXX1/XX2

## Microprocessor Supervisor with Embedded Memory

### FEATURES

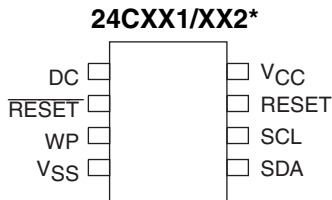
- Watchdog Timer on SDA for 24CXX1
- Programmable Reset Threshold
- 400 KHz I<sup>2</sup>C Bus Compatible
- 2.7 to 6 Volt Operation
- Low Power CMOS Technology
- 16 - Byte Page Write Buffer
- Built-in inadvertent write protection
  - V<sub>CC</sub> Lock Out
- Active High or Low Reset Outputs
  - Precision Power Supply Voltage Monitoring
  - 5V, 3.3V and 3V options
- 1,000,000 Program/Erase Cycles
- 100 Year Data Retention
- 8-Pin DIP or 8-Pin SOIC
- Commercial, Industrial and Automotive Temperature Ranges

### DESCRIPTION

The CAT24CXXX is a single chip solution to three popular functions of EEPROM memory, precision reset controller and watchdog timer. The 24C161/162(16K), 24C081/082(8K), 24C041/042(4K) and 24C021/022(2K) feature a I<sup>2</sup>C Serial CMOS EEPROM. Catalyst's advanced CMOS technology substantially reduces device power requirements. The 24CXXX features a 16-byte page and is available in 8-pin DIP or 8-pin SOIC packages.

The reset function of the 24CXXX protects the system during brown out and power up/down conditions. During system failure the watchdog timer feature protects the microcontroller with a reset signal. 24CXXX features active low reset on pin 2 and active high reset on pin 7. 24CXX1 features watchdog timer on the SDA line. 24CXX2 does not feature the watchdog timer function.

### PIN CONFIGURATION



\*All products offered in P and J packages

### PIN FUNCTIONS

Pin Name	Function
SDA	Serial Data/Address
RESET/RESET	Reset I/O
SCL	Clock Input
V <sub>cc</sub>	Power Supply
DC	Do Not Connect
V <sub>ss</sub>	Ground
WP	Write Protect

### BLOCK DIAGRAM

