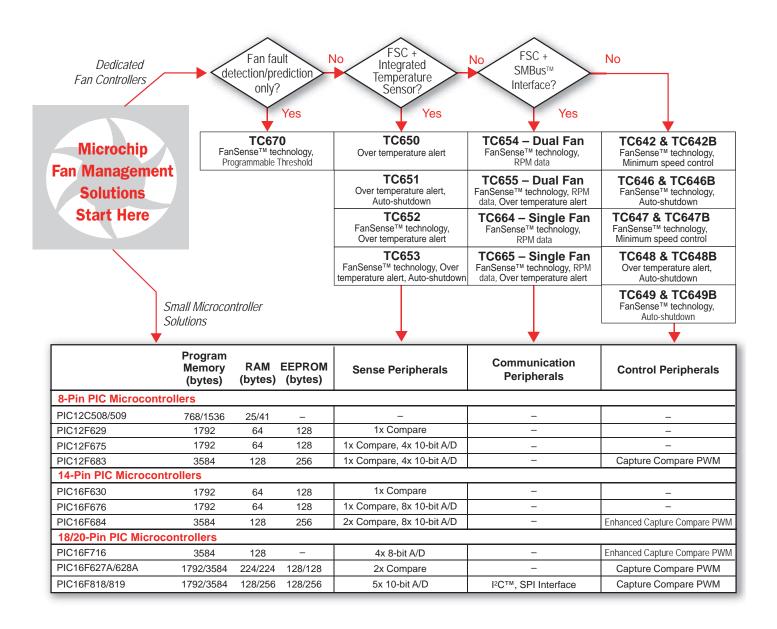
Microchip Technology offers design engineers a broad portfolio of products for Fan Speed Control (FSC) and Fan Fault Detection Solutions. The dedicated fan controller products are ideal for analog engineers since there is no firmware development required resulting in faster time to market. Some of these devices also feature onboard temperature sensor options in small space saving packages such as MSOP and SOT-23. For additional specialized requirements, flexibility and individual control over multiple fans, Microchip's range of small PIC[®] microcontrollers enables designers to customize designs to meet their requirements.





Additional Information

Application Notes:

- AN764 Implementing Temperature-Based Variable Fan Speed Control in NLX Power Supplies, DS00764
- AN768 Redundant Fan Systems Using the TC647 Fan Manager, DS00768
- AN770 Linear Voltage Fan Speed Control Using Microchip's TC64X Family, DS00770
- AN771 Suppressing Acoustic Noise in PWM Fan Speed Control Systems, DS00771
- AN772 Speed Error in PWM Fan Control Systems, DS00772
- AN893 Low-cost Bidirectional Brushed DC Motor Control using the PIC16F684, DS00893

Technical Briefs:

- TB063 An Integrated Fan Speed Control Solution Can Lower System Costs, Reduce Acoustic Noise, Power Consumption and Enhance System Reliability, DS91063
- TB064 Intelligent Thermal Management Using Brushless DC Fans, DS91064

Design Guides:

- Fan Control Function Pack Design Guide This 8-page booklet gives diagrams and design examples for a number of applications that extend fan life, reduce acoustic noise, minimize power consumption and increase system uptime. (DS21835)
- PICmicro® CCP and ECCP Tips 'n Tricks The ECCP and CCP modules on the PIC® microcontrollers are capable of performing a wide variety of tasks. This document describes some of the basic guidelines to follow when using these modules in each mode, as well as give suggestions for practical applications. (DS41214)

Demonstration/Evaluation Boards and User Guides:

Microchip offers a number of boards, along with User Guides, to help evaluate device families. Contact your local Microchip Sales Office for more information.

- TC642 Fan Control Demo Board This fan control circuit board allows the user to quickly evaluate and prototype Microchip's TC64X and TC64XB Pulse Width Modulation (PWM) Fan Control ICs. (User's Guide, DS21401)
- TC642 Fan Control Evaluation Board This fully assembled 4" x 6" circuit board allows the user to evaluate and prototype fan control circuits based on Microchip's TC64X and TC64XB DC brushless fan controllers. (User's Guide, DS21403)
- TC650 Fan Control Demo Board An evaluation tool that allows the user to quickly prototype fan control circuits based on Microchip's TC650 or TC651 Pulse Width Modulation (PWM) Fan Control ICs. (User's Guide, DS51304)
- TC652 Fan Control Demo Board An evaluation tool that allows the user to quickly prototype fan control circuits based on Microchip's TC652 or TC653 Pulse Width Modulation (PWM) Fan Control ICs. (User's Guide, DS21506)
- TC670 Fan Speed Sensor Demo Board An evaluation tool that provides an optimal way to evaluate the TC670 integrated fan speed sensor. (User's Guide, DS51273)

General:

- 2006 Product Line Card, DS00890
- Microchip Product Selector Guide, DS00148
- Stand-Alone Analog and Interface Solutions, DS21060

Samples/Purchasing Information

- Online Sampling: www.sample.microchip.com
- Online Purchasing: www.microchipdirect.com
- Technical Training: www.microchip.com/training



Visit our web site for additional product information and to locate your local sales office.

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