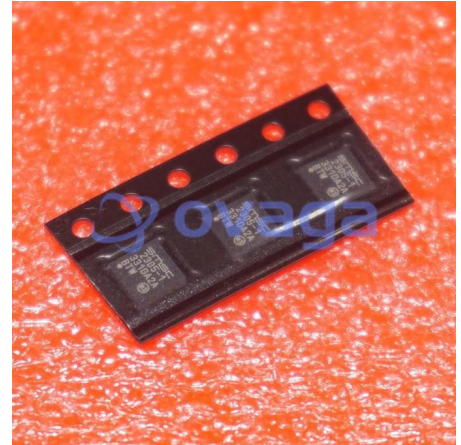


Penta Closed Loop RPM-Based PWN Fan Speed Controller with Alert, I2C/SMBus

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	QFN-16
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for EMC2305-1-AP-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The EMC2305 is an SMBus compliant fan controller with up to five independently controlled PWM fan drivers. Each fan driver is controlled by a programmable frequency PWM driver and Fan Speed Control algorithm that operates in either a closed loop fashion or as a directly PWM-controlled device.

The closed loop Fan Speed Control algorithm (FSC) has the capability to detect aging fans and alert the system. It will likewise detect stalled or locked fans and trigger an interrupt.

Additionally, the EMC2305 offers a clock output so that multiple devices may be chained and slaved to the same clock source for optimal performance in large distributed systems.

## Features

Features

Five Programmable Fan Control circuits

4-wire fan compatible

High speed PWM (26 kHz)

Low speed PWM (9.5Hz - 2240 Hz)

Optional detection of aging fans

Fan Spin Up Control and Ramp Rate Control

Alert on Fan Stall

Up to 3 Selectable Default Fan Speeds

Watchdog Timer

RPM-based fan control algorithm

0.5% accuracy from 500 RPM to 16k RPM (external crystal oscillator)

1% accuracy from 500 RPM to 16k RPM (internal clock)

SMBus 2.0 Compliant

Up to 6 selectable SMBus addresses

SMBus Alert compatible

CLK Pin can provide a clock source output

Available in a 16-pin 4mm x 4mm QFN RoHS Compliant package

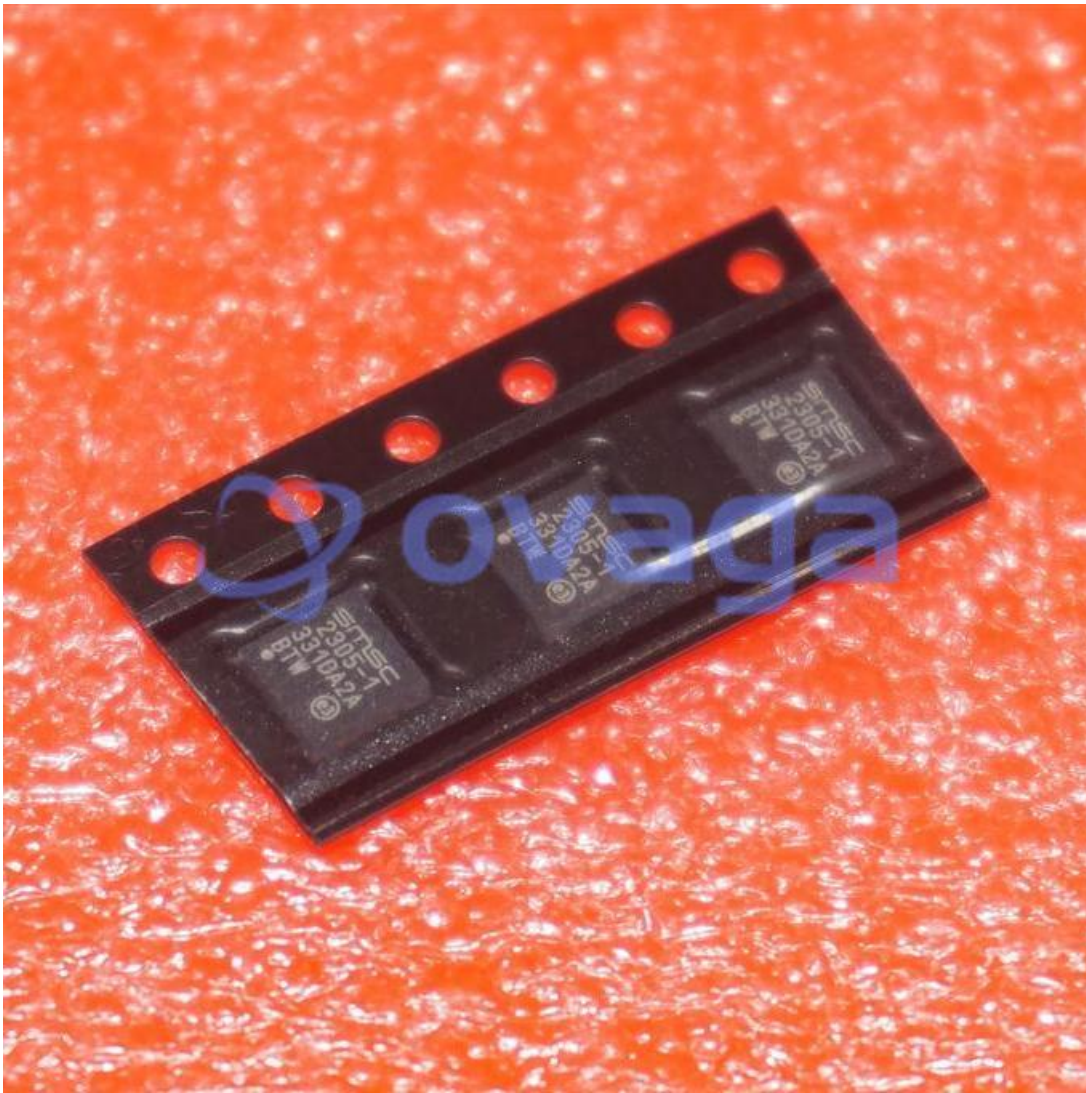
## Application

Servers

Projectors

Industrial and Networking Equipment

Notebook Computers

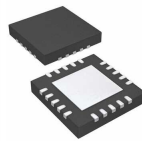


## Related Products



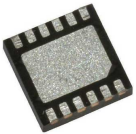
### [EMC2103-2-AP-TR](#)

Microchip Technology, Inc  
QFN-16



### [EMC2112-BP-TR](#)

Microchip Technology, Inc  
QFN-20



### [EMC2303-1-KP-TR](#)

Microchip Technology, Inc  
QFN-12



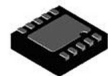
### [EMC2302-1-AIZL-TR](#)

Microchip Technology, Inc  
MSOP-10



### [TC1313-ZD0EMFTR](#)

Microchip Technology, Inc  
DFN-10



### [TC1313-VD0EMFTR](#)

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[TC1313-1H0EMFTR](#)

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