

Product Overview

FAN9673: Power Factor Controller (PFC), Interleaved Three-Channel CCM

For complete documentation, see the data sheet.

The FAN9673 is an interleaved three-channel Continuous Conduction Mode (CCM) Power Factor Correction (PFC) controller IC intended for PFC pre-regulators. Incorporating circuits for the implementation of leading edge, average current, and “boost”-type power factor correction; the FAN9673 enables the design of a power supply that fully complies with the IEC1000-3-2 specification. Interleaved operation provides substantial reduction in the input and output ripple currents and the conducted EMI filtering becomes easier and cost effective.

An innovative channel management function allows the power level of the slave channels to be loaded and unloaded smoothly according to the setting voltage on the CM pin, improving the PFC converter’s load transient response.

The FAN9673 also incorporates a variety of protection functions, including: peak current limiting, input voltage brown out protection, and TriFault Detect™ function.

Features

- Continuous Conduction Mode Control
- Three-Channel PFC Control (Maximum)
- Average Current-Mode Control
- PFC Slave Channel Management Function
- Programmable Operation Frequency Range: 18 kHz~40 kHz or 55 kHz~75 kHz
- Programmable PFC Output Voltage
- Two Current Limit Functions
- TriFault Detect™ Protects Against Feedback Loop Failure
- Sag Protection
- Programmable Soft-Start

For more features, see the data sheet

Applications

- Energy Generation & Distribution
- Industrial Motor
- Motion
- Motion Control - Home Appliance
- Motion Control - Home Appliance/Industrial Motor

Part Electrical Specifications

Product	Compliance	Status	PFC Mode	Frequency Operation	Control Mode	Topology	f_{sw} Typ (kHz)	V_{cc} Max (V)	Drive Cap. (mA)	UVLO (V)	Latch	UVP	Inhibition	Package Type
FAN9673Q	Pb-free Halide free	Active	CCM	Fixed	Current Mode	Step-Up	40 / 75	30	470 / 550	12.8	No	Yes	No	LQFP-32
FAN9673QX	Pb-free Halide free	Active	CCM	Fixed	Current Mode	Step-Up	40 / 75	30	470 / 550	12.8	No	Yes	No	LQFP-32

For more information please contact your local sales support at www.onsemi.com.

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