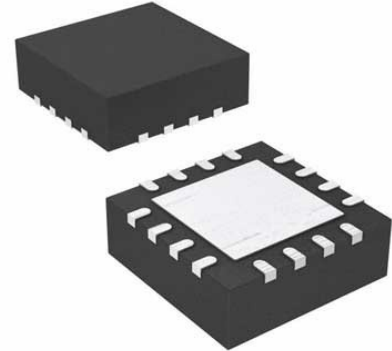


DC/DC Cntrlr Single-OUT Step Down 800kHz 16-Pin VQFN EP T/R

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN-16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC2128YML-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC2128 is a constant-frequency synchronous buck controllers featuring a unique adaptive ON-time control architecture. The MIC2128 operates over an input voltage range from 4.5V to 75V and can be used to supply load current up to 25A (Thermally Limited) . The output voltage is adjustable down to 0.6V with a guaranteed accuracy of $\pm 1\%$. The device operates with programmable switching frequency from 270kHz to 800kHz.

The MIC2128 offers a full suite of protection features to ensure protection of the IC during fault conditions. These include undervoltage lockout to ensure proper operation under power-sag conditions, Adjustable soft-start to reduce inrush current, "hiccup" mode short-circuit protection, and thermal shutdown.

Features

Hyper Speed Control® architecture enables:

4.5V to 75V input voltage

Adjustable output voltage from 0.6V to 30V

270kHz to 800kHz programmable switching frequency

Externally programmable soft start

Enable input and power good output

Built-in 5V regulator for single-supply operation

Auxiliary bootstrap LDO

Internal Bootstrap diode

Programmable current limit and "hiccup" mode short-circuit protection

Internal compensation, and thermal shutdown

Supports safe start-up into a pre-biased output

Available in 16-pin 3mm x 3mm QFN package

Related Products



[MIC94325YMT-TR](#)

Microchip Technology, Inc
UDFN-6



[MIC4684YM](#)

Microchip Technology, Inc
SOIC-8



[MIC2009A-1YM6-TR](#)

Microchip Technology, Inc
SOT-23-6



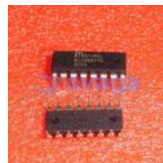
[MIC2090-1YM5-TR](#)

Microchip Technology, Inc
SOT-23-5



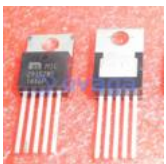
[MIC5841YWM-TR](#)

Microchip Technology, Inc
SOIC-18



[MIC5891YN](#)

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PDIP-16



[MIC29152WT](#)

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TO-220-5



[MIC5209YM](#)

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SOIC-8