

# **Product Overview**

## FAN251030: 35A Synchronous Buck Regulator with PMBUS

For complete documentation, see the data sheet.

The FAN251030 is a highly efficient synchronous buck regulator with digital interface, capable of operating with an input range from 4.5 V to 18 V and supporting up to 35 A load currents. The FAN2510xx utilizes a fixed− frequency voltage− mode control architecture to provide a synchronized constant switching frequency while ensuring fast transient response. Switching frequency and over− current protection can be programmed to provide a flexible solution for various applications. Output over− voltage, under− voltage, over− current, and thermal shutdown protections help prevent damage to the device during fault conditions.

#### **Features**

· PMBUS 1.3.1 Compatible

VIN Range: 4.5 V to 18 V

· Accurate Voltage, Current and Thermal Telemetry Reporting

· High Efficiency: Over 96% Peak · Continuous Output Current: 35 A

· Internal Linear Bias Regulator

• Precision Reference: ±0.7% Over Temperature

 Output Voltage Range: 0.5 V to 5.5 V · Adjustable Frequency: 200 kHz to 1.8 MHz

· Programmable Soft-Start

For more features, see the data sheet

## **Applications**

· Point of Load

· ASIC, CPU Core and I/O Supplies

#### **Benefits**

· Telemetry reporting, custom configuration, fault recording/reading with NVM

### **End Products**

- · Server and Desktop Computers, Notebooks, Gaming
- · Telecommunications
- High Density Power Solutions

Part Electrical Specifications												
Product	Pricing (\$/Unit)	Compliance	Status	Topology	Control Mode	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	V <sub>o</sub> Typ (V)	I <sub>o</sub> Typ (A)	Efficienc y (%)	f <sub>sw</sub> Typ (kHz)	Package Type
FAN251030MNTXG	2.2666	Pb-free Halide free non AEC-Q and PPAP	NEW	Step- Down	Voltage Mode	4.5	18	0.5V to 5.5V	Up to 35A	96% Peak	200kHz to 1.8Mhz	WQFN- 34

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

Created on: 8/5/2021