

XinaBox Datasheet PG01 - 5-24v Power Supply



Overview

This PG01 uses a TS30011 synchronous buck convertor to connect χ CHIPS to a wide range of DC power sources.

The TS30011 is a DC/DC synchronous switching regulator with fully integrated power switches, internal compensation, and full fault protection. The TS30011 utilizes current mode feedback in normal regulation PWM mode. When the regulator is placed in standby, the device draws less than 10uA quiescent current. The TS30011 integrates a wide range of protection circuitry including input supply under-voltage lockout, output voltage soft start, current limit, and thermal shutdown.

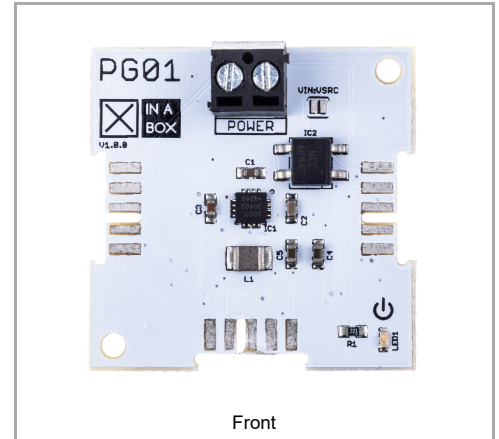
Product Highlights

- 5 - 24V Wide input voltage range
- +/- 2% output tolerance
- 1MHz +/- 10% fixed switching frequency
- Continuous output current: 1A

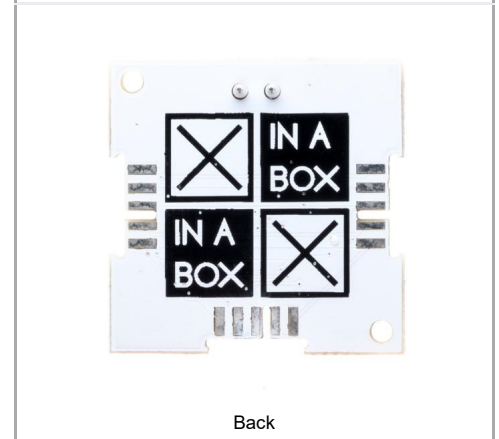
Specifications

- +/- 2% output tolerance
- 5 - 24V Wide input voltage range
- 1MHz +/- 10% fixed switching frequency
- Continuous output current: 1A
- High efficiency – up to 95%
- Current mode PWM control with PFM mode for improved light load efficiency
- Input supply under voltage lockout
- Soft start for controlled startup with no overshoot
- Cycle-by-cycle current limit with frequency foldback
- Full protection for over-temperature and VOUT over-voltage
- Less than 10uA in standby mode

PG01 - 5-24v Power Supply (TS30011)



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χ CHIP

Main Category	Power
Sub Category	5-24v Power Supply
Introduced	1 January 2017
Current version	1.0.0
Current version date	1 January 2017
Dimensions	
Size	2x2U (32x32mm)
Weight	4.4 g
Height	12.5/0/0 mm
Non-χBUS Connections	
North	Terminal Block
Main Chip Set	
Main Chip	TS30011