

HT7000 series - High Efficiency DC-DC Buck Converter

Internal MOSFET · Combine Mode

Sync Buck · Wide Usage

HT7823, HT7228 INTERNAL MOSFET

Automotive

USB Charger

Wireless Router

LCD TV

Combine mode · Hi-FREQ

* HT7823 has built-in I²C. HT7228 has not

Application:

- Automotive ADAS
- Automotive LED
- CCTV system
- LCD TV / Monitors
- Wireless Router
- USB Type C/A fast charge
- Industrial/automotive

Introduction

HT7823, HT7228 are high efficiency dual-channel, synchronous step-down switching converters designed for high-power dual ports DC-DC applications. It has a wide input range from 7V to 36V, it supports a wide range of output voltages with typical current of 1A, the switching frequency is adjustable up to 1MHz by an external resistor, covering wide range of applications. Operating at high frequency reduces the size and cost of inductors and capacitors. HT7823 has connection capability with wireless communication modules using the I²C serial interface. It can remotely control the ON/OFF, voltage and current limit of the HT7823 outputs. The soft-start function is available, and there are multi-protections such as UVLO, IVP, OVP, CP and OTP.

Features

Dual Channels Buck DC-DC Converter

- Wide range of input voltage: 7V - 36V
- Dual Channels with independent input/output
- High output power and combine mode
- Support CC-CV mode
- Soft start
- QFN-32 package

Overview

IC	Frequency	Output Current	I ² C	Combine Mode
HT7823	350kHz-1MHz	1A	Yes	Yes
HT7228	350kHz-1MHz	3A	No	Yes

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Official Website:

<https://hightt.com>