

HT6000 series - High Efficiency DC-DC Buck Controller

External MOSFET · Combine Mode

Sync Buck · Wide Usage

HT6329, HT6328, HT6122

EXTERNAL MOSFET

USB Charger

Car Charger

Wireless Router

Automotive

Combine mode · CC-CV

* HT6122 has one channel supports QC3.0 protocol. HT6328 & HT6329 have not

Application:

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

Introduction

HT6328, HT6329 and HT6122 are easy-to-use, high-efficiency, synchronous step-down controllers, designed for high-power dual-channel applications. The combine mode of the HT6328 and HT6329 doubles the power to, as high as, 100W or more, depending on the external MOSFETs. The soft-start function prevents the inrush current during startup from affecting the stability of the input power supply. They also have multi-protections such as UVLO, IVP, OVP, CP and OTP. The external feedback pins can be connected with the protocol IC to provide fast charge solutions such as QC3.0 or PD3.0. One channel of the HT6122 has built-in QC3.0 protocol, which is more convenient to use.

Features

Dual Channels Buck DC-DC Controller

- 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	MOSFET	Combine Mode	QC3.0 Protocol
HT6329	150-350kHz	External	Yes	No
HT6328	150kHz	External	Yes	No
HT6122	150-350kHz	External	No	Yes

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