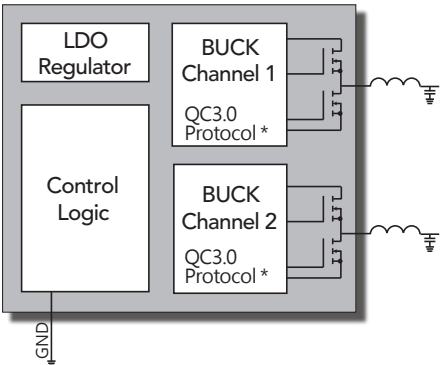


# HT6000 series - High Efficiency DC-DC Buck Converter

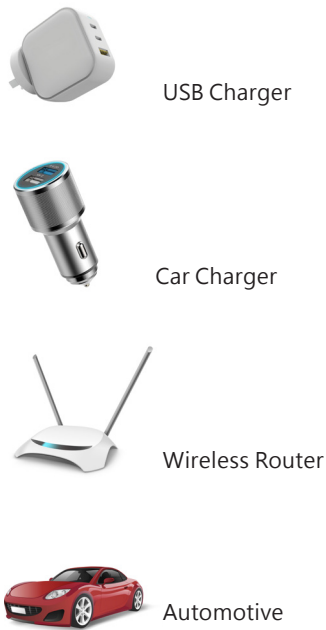
## Internal MOSFET · Combine Mode

Sync Buck · Wide Usage

HT6228, HT6028,  
HT6020, HT6422



INTERNAL  
MOSFET



USB Charger

Car Charger

Wireless Router

Automotive

Combine mode · CC-CV

\* HT6020 has dual-channels support QC3.0 protocol. HT6228 & HT6028 have not

### Application:

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

### Introduction

HT6228, HT6028, HT6020, HT6422 are easy to use, high efficiency, dual-channel, synchronous step-down switching converters designed for high-power dual ports DC-DC applications. Integrated with 4 power MOSFETs, with wide input range from 7V to 36V, it provides a wide range of output voltages. The combine mode doubles the power while one channel is being used. HT6020 and HT6422 has built-in QC protocol, can easily set up fast charging for USB type-A. The soft-start function is available, and there are multi-protections such as UVLO, IVP, OVP, CP and OTP. A typical application is USB charger. It can provide fast charge to two channels, requiring less components.

### 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	Combine Mode	QC3.0 Protocol
HT6228	350kHz	3A	Yes	No
HT6028	350kHz	1.4A	Yes	No
HT6020	150-350kHz	3A	No	2 Channels
HT6422	600kHz	3A	Yes	1 Channel

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