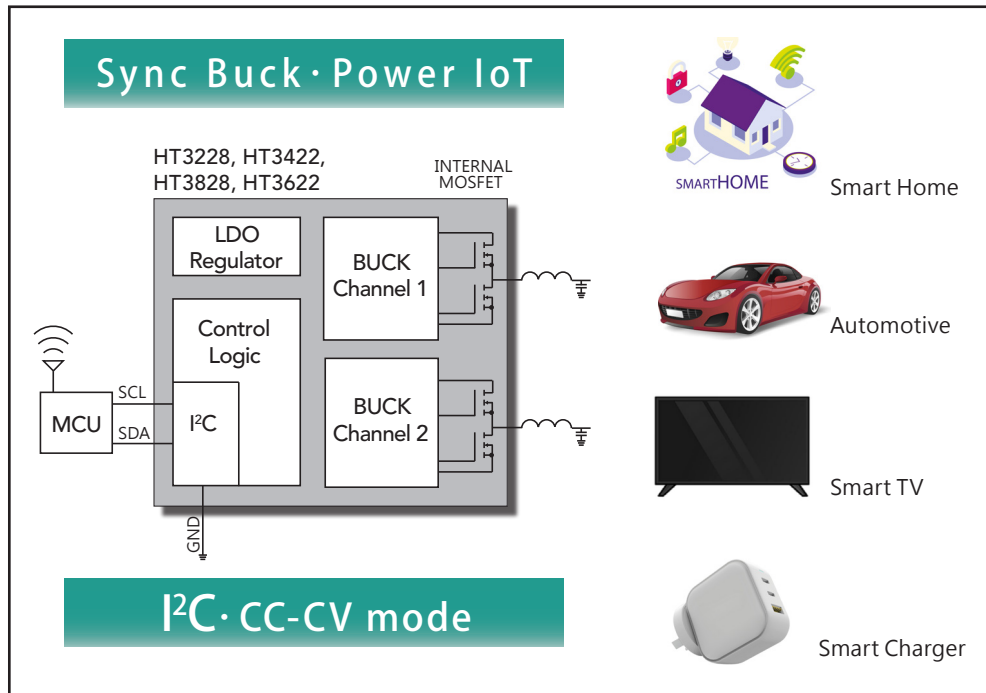


HT3000 Series - I²C Dual Buck DC-DC Converter

IoT and smart home system · Internal MOSFET



Application:

- IoT Smart Home System
- APP controllable DC Source
- Automotive ADAS system
- Automotive LED system
- CCTV system
- LCD TV / Monitors
- USB Type C/A Fast Charge
- Low EMI (Patent Pending)

Introduction

HT3228, HT3422, HT3828, HT3622 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 1-2A. The switching frequency of HT3828 is adjustable up to 1MHz by an external resistor to cover a wide range of applications. Operating at high frequency reduces the size and cost of inductors and capacitors.

HT3000 series has connection capability with wireless communication modules using the I²C serial interface. It can remotely control the ON/OFF, voltage and current limit with the mobile application. 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
- Selectable frequency: 150/250/350kHz
- Support I²C and CC-CV mode
- Soft start
- QFN-32 Package

Overview

IC	Frequency	Output Current	QC3.0 Protocol	Combine Mode
HT3228	350kHz	3A	No	Yes
HT3422	600kHz	3A	1 Channel	Yes
HT3828	350kHz-1MHz	3A	No	Yes
HT3622	1.4MHz	3A	1 Channel	Yes

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