



General Description

The CX8576Q is a high-efficiency, high-voltage, synchronous step-down DC-DC converter with integrated high-side and low-side power MOSFETs. With wide input range from 4.75V to 36V, the converter can deliver output voltage ranging from 0.8V to VIN with up to 4.8A continuous output current. The Converter can be configured as single output with independent constant current (CC) regulation for each output. In the event of output overload or shortcircuit. Other protection features include cycle-by-cycle current limit, input under and over voltage protection and thermal shutdown. CX8576Q also provides programmable cable voltage drop compensation by selecting appropriate external resistor divider. Switching frequency is internally set to 110kHz.

The CX8576Q is available in QFN20L-5×5 package.

Features

- AEC-Q100 Automotive Qualified
- 4.75V ~ 36V Supply Voltage Range
- 2% Voltage Reference Accuracy
- 8% Constant Current Accuracy
- External Current Limit Setting
- Programmable Operation Frequency
- Duty Cycle Range (0~95%)