

GENERAL DESCRIPTION

TCS8036 is a highly integrated power management IC (PMIC) designed to minimize power consumption in consumer and multimedia applications. It is targeted at Mobile Internet Devices, Personal Navigation Devices, Smart Door Bell, Entertaining and Education Machine. Providing a complete system power management solution, the TCS8036 integrates 3-CH synchronous buck converter, 1-CH WLED driver, 1-CH LDO, 1-CH reset monitor. The converters are optimized for high efficiency (greater than 92%) and feature integrated low impedance FETs.

APPLICATION

- Smart Door Bell
- Entertaining and Education Machine
- Mobile Internet Devices

FEATURES

- Wide Input Voltage Range: 3.4V ~ 20V
- High Efficient DC/DC Converter: 92~96%

Low Power Consumption (Sleep Mode) < 10µA
Integrate 6-CH Output in QFN28L-4X4 Package

- WLED Driver(1-CH)
an Asynchronous step-up converter designed for driving up to 7 series white LEDs
- Buck DC/DC Converter (3-CH)
BUCK1: Input 3.4V~20V, output 0.6V ~ VIN adjustable, load current up to 3A
BUCK2: Input 3.4V~20V, output 0.6V~ VIN adjustable, load current up to 3A
BUCK3: Input 2.5V~6V, output 0.6V~ VIN adjustable, load current up to 3A
- High PSRR LDO (1-CH)
LDO:0.6V~5.0V adjustable, load current up to 1000mA.
- Reset Monitor (1-CH)
provide a reset signal POR to the host processor with an external pull up voltage
- Protection
Over Voltage Protection (OVP)
Under Voltage Protection (UVP)
Over Current Protection (OCP)
Short Circuit Protection (SCP)
Over Thermal Protection (OTP)

TYPICAL APPLICATIONS

