

## GENERAL DESCRIPTION

TCS8037 is a highly integrated power management IC(PMIC) designed for AIOT,IPC,Smart Lock and consumer & multimedia applications.

TCS8037 offers a complete solution with minimum component count,low power dissipation together with simple design. The TCS8037 integrates 4-CH synchronous buck converter,2- CH LDO.The converters are optimized for high efficiency (greater than 92%) and feature integrated low impedance FETs.

## APPLICATION

- AIOT
- IPC
- Smart Lock

## FEATURES

- Wide Input Voltage Range:3.1V~20V  
High Efficient DC/DC Converter:92~96%  
Integrate 6-CH Output in QFN28L-4X4 Package

- Buck DC/DC Converter (4-CH)  
HVBUCK1:Input 3.1V~20V, output 0.6V~VIN Adjustable,load current up to 3A  
HVBUCK2:Input 3.1V~20V, output 0.6V~VIN adjustable, load current up to 3A  
LVBUCK1:Input 2.5V~6V, output 0.6V~VIN adjustable, load current up to 3A  
LVBUCK2:Input 2.5V~6V, output 0.6V~VIN adjustable, load current up to 3A
- High PSRR LDO (2-CH)  
LDO1:1.8V ~5.0V adjustable,load current up to 800mA.  
LDO2:0.6V~5.0V adjustable,load current up to 1000mA.
- Protection  
Over Voltage Protection (OVP)  
Under Voltage Protection (UVP)  
Over Current Protection (OCP)  
Short Circuit Protection (SCP)  
Over Thermal Protection (OTP)

## TYPICAL APPLICATIONS

