

GERNAL DESCRIPTION

TCS8045 is a highly integrated power management IC (PMIC) designed for IPC,DVR,TV and consumer & multimedia applications.It offers a complete solution with minimum component count,low power dissipation together with simple design. the TCS8045 integrates 3-CH synchronous buck converter,1- CH LDO,1- CH reset monitor. The converters are optimized for high efficiency (greater than 92%) and feature integrated low impedance FETs.

APPLICATION

- IPC
- DR
- TV

FEATURES

- Wide Input Voltage Range:3.1V ~ 20V
- High Efficient DC/DC Converter: 92~96%
- Low Power Consumption (Sleep Mode) < 10 μ A Integrate 4-CH
- Output in QFN20L-3X3 Package

- Buck DC/DC Converter (3-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
- 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

