

## 6 Detail Description

### 6.1 Overview

AXP323 is a highly integrated power management IC targeting at applications that require multi-channel power conversion outputs. AXP323 can be used with other BMU together to provides battery management solutions for various portable devices. It can also be used in low-power battery-free solutions such as IPC and smart speakers, fully meeting the requirements of application processor systems for relatively complex and precise power control.

AXP323 supports 6 channel power outputs (including 3 channel DCDCs and 3 channel LDOs). DCDC1 and DCDC2 support dual phase for heavy current application. To ensure the security and stability of the power system, AXP323 integrates protection circuits such as over-voltage protection (OVP), under-voltage protection (UVP) and over temperature protection (OTP). Moreover, AXP323 features power management functions such as power on/off, sleep and wakeup, which reflects the management value of chip integration .

AXP323 provides a fast interface (Two Wire Serial Interface, TWSI) for system to dynamically adjust output voltages, enable power outputs and configure interrupt condition.

AXP323 is available in 3mm x 3mm 20-pin QFN package.