

Nuvoton NCT5571D - LPC Super I/O for Desktop & Server

Description:

The NCT5571D, a member of Nuvoton's LPC Super I/O product line, supports serial port interface, PS/2 interface, GPIO, hardware monitoring functions, Intel PECE and AMD SB-TSI.

The NCT5571D monitors several critical parameters in PC hardware, including power supply voltages, fan speeds and temperatures. In terms of temperature monitoring, the NCT5571D adopts the Current Mode (dual current source) and thermistor sensor approach. The NCT5571D also supports the SMART FAN control system and more advanced SMART FAN control mode, which makes the system more stable and user-friendly.

The NCT5571D provides one high-speed serial communication port (UART), which includes a 16-byte send/receive FIFO, a programmable baud rate generator, complete modem-control capability, and a processor interrupt system. The UART supports legacy speeds up to 115.2K bps as well as even higher baud rates of 230K, 460K, or 921K bps to support higher speed modems.

The NCT5571D provides flexible I/O control functions through a set of general purpose I/O (GPIO) ports. These GPIO ports may serve as simple I/O ports or may be individually configured to provide alternative functions.

The NCT5571D supports Intel PECE (Platform Environment Control Interface) and AMD SB-TSI.

The configuration registers inside the NCT5571D support mode selection, function enable and disable, and power-down selection. Furthermore, the configurable PnP features are compatible with the plug-and-play feature in Windows, making the allocation of the system resources more efficient than ever.

Features:

- Support 1 serial port (UART)
- Support 8042 keyboard controller with PS/2 mouse support
- Support general purpose I/O ports
- Support Intel PECE interface and AMD SB-TSI interface.
- Support H/W Monitor functions, including voltage detection, temperature detection, fan speed detection and fan speed control.

Package: 64-pin LQFP