LPC Super I/O for Desktop & Server

Part No.	NCT6779D
Datasheet	Request
Description	The NCT6779D is a member of Nuvoton's Super I/O product line. The NCT6779D monitors several critical parameters in PC hardware, including power supply voltages, fan speeds and temperatures. In terms of temperature monitoring, the NCT6779D adopts the Current Mode (dual current source) and thermistor sensor approach. The NCT6779D also supports the Smart Fan control system, including "SMART FAN™ I "and "SMART FAN™ IV", which makes the system more stable and user-friendly. The NCT6779D supports Printer Port, KBC, 2 UART and flexible I/O control functions through a set of general purpose I/O (GPIO) ports. The NCT6779D supports Intel ® PECI (Platform Environment Control Interface), AMD ® SB-TSI interface, AMD ® CPU power on sequence, and Intel ® Deep Sleep Well glue logic to help customers to reduce the external circuits needed while using Deep Sleep Well function. The NCT6779D supports to decode port 80 diagnostic messages on the LPC bus. It also supports two-color LED control to indicate system power states. The NCT6779D supports Consumer IR function for remote control purpose. It also supports Advanced Power Saving function to further reduce the power consumption while the system is at S5 state. The configuration registers inside the NCT6779D 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	• LPC Interface • 2 serial port (UART) supporting RS-485 auto flow control • PC-compatible printer port (SPP) / Extended Capabilities Port (ECP) / Enhanced Parallel Port (EPP) • 8042 keyboard controller with PS/2 mouse • General purpose I/O ports • CIR receiver, transmitter, learning and wake-up functions • PECI 3.0 host, SB-TSI, SMBus Master • Intel Deep Sleep Well (DSW) glue logic function • Advanced Power Saving function (ErP) • AMD CPU power on sequence • Port80 decode for debug purpose • Two-color LED to indicate different power status • H/W Monitor functions, up to 10 external voltage detection inputs, up to 6 temperature detection inputs, 5 fan speed detection and 5 fan speed control
Diagram	N/A
Package	128-pin LQFP
Other Files	N/A
Development Tools	N/A
Others	N/A

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