

GL3520

USB 3.0 MTT Hub Controller

Worldwide No.1 USB 3.0 Hub Controller with Ensured Compatibility

Overview

GL3520 is a 4-port, highly cost-effective, and configurable hub controller. It is compliant with the USB 3.0 specification, and fully backward-compatible with HS/FS/LS hosts and devices. GL3520 USB 3.0 hub controller achieves the industry-leading 0.9W power consumption while four SuperSpeed devices connecting to downstream ports are active with read/write operating. GL3520 incorporates patented Smart Power Management that can dynamically switch the mode of downstream ports to ensure the quality of flow. Its firmware is upgradable and configurable based on customers' needs for features such as non-removable and port number settings.

Features

- Compliant with USB specification revision v1.1/2.0/ 3.0
- USB 2.0 MTT architecture, configurable 4/3/2 downstream ports
- Support USB 3.0 U0/U1/U2/U3 power management states
- Support both individual and gang modes of power management and over-current detection for downstream ports
- Automatic switching between self-powered and bus-powered modes
- Provide SPI interface for firmware upgrade
- Support slew-rate control for EMI reduction
- Internal power-fail detection for ESD recovery
- 25MHz reference input clock
- Certified by USB-IF for SuperSpeed USB Hub (TID: 330000028)
- Package: QFN 64 (8x8mm) & QFN 88 (10x10mm)

Block Diagram

