

USB2422

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The SMSC USB2422 hub is a low-power, single transaction translator, hub controller IC with two downstream ports for embedded USB solutions. The SMSC hub controller can attach to an upstream port as a Hi-Speed and Full-Speed hub or as a Full-Speed only hub. The SMSC hub supports Low-Speed, Full-Speed, and Hi-Speed (when configured as a Hi-Speed hub) downstream devices on the enabled downstream ports.

All required resistors on the USB ports are integrated into the hub. This includes all series termination resistors on D+ and D- pins and all required pull-down and pull-up resistors on D+ and D- pins. The over-current sense inputs for the downstream facing ports have internal pull-up resistors.

Features

Highlights

- High performance, low-power, small footprint hub controller IC with two downstream ports
- Fully compliant with the USB 2.0 Specification
- Optimized for minimal bill-of-materials and low-cost designs

Features

- Supports the USB Battery Charging Specification, Revision 1.1
- Fully integrated USB termination and pull-up/pulldown resistors
- Supports a single external 3.3 V supply source; internal regulators provide 1.2 V internal core voltage
- On-chip driver for 24 MHz crystal resonator or external 24 MHz clock input
- ESD protection up to 6 kV on all USB pins
- Supports self-powered operation
- SMSC hub contains a built-in default configuration; no external configuration options or components are required
- Downstream ports as non-removable ports
- Downstream port power control and over-current detection on an individual or ganged basis
- Supports compound devices on a port-by-port basis
- 24-pin SQFN (4x4 mm), RoHS-compliant package
- Commercial temperature range support: 0°C to +70°C
- Industrial temperature range support: -40°C to +85°C

Target Applications

- LCD Monitors and TVs
- Multi-function USB Peripherals
- PC motherboards
- Set-top boxes, DVD players, DVR/PVR
- Printers and scanners
- PC media drive bay
- Portable hub boxes
- Mobile PC docking
- Embedded systems
- Gaming consoles
- Cable/DSL modems
- HDD enclosures
- KVM switches
- Server front panels
- Point-of-Sale (POS) systems
- IP telephony
- Automobile/home audio systems
- Thin client terminals

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