

USS810

USB 2.0 Full-Speed/Low-Speed Transceiver

Features

- Complies with *Universal Serial Bus Specification Rev. 2.0*.
- Can be used as a USB device transceiver or a USB host transceiver.
- Supports full-speed (12 Mb/s) and low-speed (1.5 Mb/s) serial data rates.
- Includes two single-ended receivers with hysteresis.
- Low-power operation helps maximize battery life of portable electronic devices.
- Available in a small MLCC16 package measuring 3 mm x 3 mm. (A lead-free package is also available. See Ordering Information on page 2.)
- Supports a digital I/O voltage range from 1.75 V to 3.3 V.
- Supports the full industrial operating temperature range, -40 °C to +85 °C.

Applications

Portable electronic devices, such as the following:

- Mobile phone
- Digital still camera
- Personal digital assistant (PDA)
- Information appliances



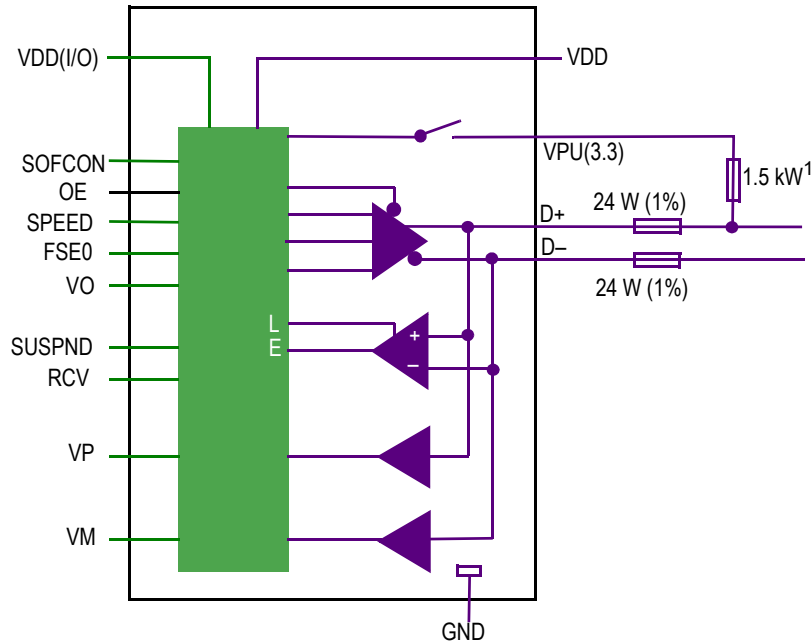
Description

Agere's USS810 is a Universal Serial Bus (USB) transceiver that is fully compliant with the *Universal Serial Bus Specification Rev. 2.0*. The USS810 can transmit and receive serial data at full-speed (12 Mb/s) and low-speed (1.5 Mb/s) data rates and, therefore, can be used as either a USB device transceiver or a USB host transceiver.

Since the USS810 operates at digital I/O voltages between 1.75 V to 3.3 V, it is particularly suitable for portable electronic devices such as mobile phones, digital still cameras, personal digital assistants (PDAs), and a variety of information appliances. This transceiver provides an ideal interface to the physical layer of the universal serial bus for application-specific ICs (ASICs) and programmable logic devices (PLDs) with power supply voltages in the above range.

The USB transceiver is currently available in an MLCC16 package that supports single-ended input data interface.

Functional Diagram



1. Connect pull-up to D- for low-speed operation.

Ordering Information

Device Code	Description	Package	Comcode
USS810M-D	USS810 in dry-packed tube	MLCC16	700057479
USS810M-DT	USS810 in dry-packed tape and reel	MLCC16	700058082
L-USS810M-D*†	Lead-free USS810 in dry-packed tube	MLCC16	700067200
L-USS810M-D*†	Lead-free USS810 in dry-packed tape and reel	MLCC16	700067201

* Lead-free: No intentional addition of lead, and less than 1000 ppm.

† Agere Systems lead-free devices are fully compliant with the Restriction of Hazardous Substances (RoHS) directive that restricts the content of six hazardous substances in electronic equipment in the European Union. Beginning July 1, 2006, electronic equipment sold in the European Union must be manufactured in accordance with the standards set by the RoHS directive.



For additional information, contact your Agere Systems Account Manager, sales at www.agere.com/sales, or email us at docmaster@agere.com.

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