GL3224

USB 3.0 Dual/Single-LUN/e•MMC HS200 Card Reader Controller

Leading developer of OCCS (On-Chip Clock Source) technology – offering you the most cost competitiveness solution

Overview

The GL3224 is a crystal-less USB 3.0 Dua/Single LUN card reader controller, it provides 2 LUNs (Logic Unit Number) which can support various types of memory cards, such as Secure Digital™(SD), SDHC, miniSD, microSD (T-Flash), MultiMediaCard™ (MMC), RS-MMC, MMCmicro, MMCmobile, Memory Stick™ (MS), Memory Stick Duo™ (MS Duo), High Speed Memory Stick™ (HS MS), Memory Stick PRO™ (MS PRO), Memory Stick PRO™ Duo (MS PRO Duo), Memory Stick PRO-HG™ (MS PRO-HG), MS PRO Micro in one chip. It also supports SDXC and Memory Stick XC high density memory cards (capacity up to 2TB) and high speed SD3.0 UHS-I memory cards.
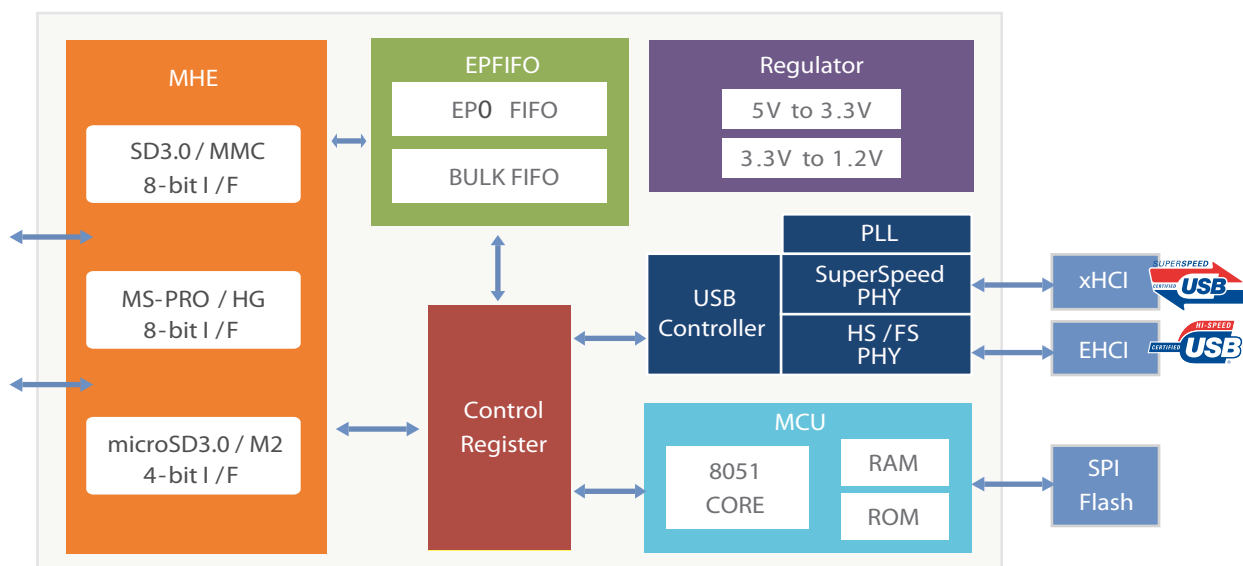
The GL3224 can be configured as single LUN to support e•MMC v4.5, 1/4/8bit data bus, High Speed SDR/ High Speed DDR/ HS200 mode, and it is compatible with e•MMC v5.0.

The GL3224 integrates a high speed 8051 microprocessor and a high efficiency hardware engine for the best data transfer performance between USB and various memory card interfaces. It supports Serial Peripheral Interface (SPI) for firmware upgrade to SPI Flash Memory via USB port. It also integrates 5V to 3.3V and 3.3V to 1.2V regulators and power MOSFETs which can reduce system BOM cost.

Features

- Support OCCS (On-Chip Clock Source) to eliminate the use of 25MHz crystal from board
- Support Secure Digital™ v3.0 UHS-I (Ultra High Speed): SDR12/SDR25/SDR50/DDR50/SDR104
- Support Embedded MultiMediaCard™ (e•MMC): v4.3/ v4.4/ v4.5/ v5.0, High Speed SDR/ High Speed DDR/ HS200
- Support Memory Stick™ / Memory Stick PRO / Memory Stick PRO Duo / Memory Stick Micro /Memory Stick PRO-HG / Memory Stick XC (capacity up to 2TB)
- Pass the USB-IF Test Procedure for SuperSpeed product (TID: 340890039)
- Pass WHCK (Windows Hardware Certification Kit) test for Windows 8.1 (Submission ID: 1620543)
- Pass WHCK (Windows Hardwar Certification Kit) test for Windows 8 (Submission ID: 620537)
- Pass WHQL (Windows Hardware Quality Lab) test for Windows 7 (Submission ID: 1620861)

Functional Block