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Press Release

Genesys Logic Announces USB3.1 Gen 2 Hub Controller with Multiple Upstream Port Support and USB-C™ Integrated – GL3590

Taipei, Taiwan, January 3, 2017 — Genesys Logic, Inc., a leading IC design company in mixed-signal, high-speed I/O technologies, today announced its high-performance USB 3.1 Gen 2 USB-C™ integrated SuperSpeed Plus hub controller, GL3590.

GL3590 USB 3.1 Hub controller features USB 3.1 Gen 2 PHY developed in-house by Genesys Logic with on-chip integration of USB Power Delivery (PD) and USB-C™ functions. By removing the needs of external MUX, USB PD and USB-C™ Configuration Channel (CC) controller, it not only eases the complex board design that would otherwise be required but also saves the BOM cost to help customers convert existing USB designs to support USB PD and USB-C™. In addition, GL3590 offers the best performance/cost and lowest power consumption on the USB 3.1 Gen 2 market.

With extending and natively supporting USB PD and USB-C™ functions, GL3590 is well-suited in docking applications and retailed Hubs. In docking applications, GL3590 not only provides expansion for USB 3.1 Gen 2 ports but also features complete functions of USB-C™ CC, including reversible attaching, discovering/configuring VBUS, and configuring/providing V_{CONN} power. GL3590 also provides built-in USB Billboard, USB-C™ bridge controller, and USB-C™ TCPCI interface. Besides, GL3590 integrates ADC to monitor current or voltage for port power consumption, and facilitates other controllers to manage power by accessing hub information through USB and I2C. It makes GL3590 to be ideal for power-demanding applications.

To satisfy variety usages, and ease customers' design, GL3590 integrates HID, and can be flexibly configured according to customers' requirements, for example, disabling specific downstream ports, compound device setting, and customized GPIO/LED. GL3590 has built-in 5V to 3.3V and 5V to 1.2V regulators which saves both cost and area on the PCB board. In addition, GL3590 supports both individual and gang mode and is available in types of packages to fulfill different designs.

Genesys Logic has been a leader in USB design and development with multiple USB device solutions on the market. What really distinguishes its products from the competitors' is a robust USB PHY that not only reduces manufacturing cost but also shortens the development time it takes for the customers to get their systems to the market. Looking forward, Genesys Logic is developing other USB related controllers to provide the complete solution for customers.

Genesys Logic participates in CES 2017 and demonstrates its USB 3.1 products. For more information on Genesys Logic and its products, please visit Genesys Logic's website <http://www.genesyslogic.com>.

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