

ECE1200 eSPI-to-LPC Bridge

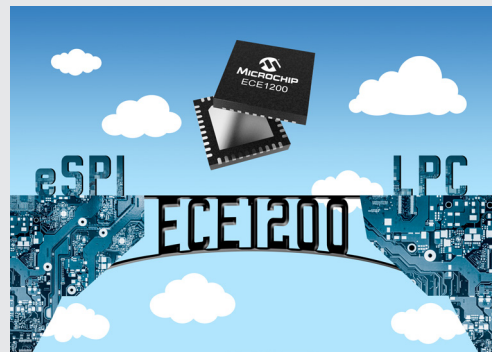
Make the Move to the High-Speed eSPI Standard in Your Existing LPC Industrial Computing Designs

Summary

Minimize your development costs and risk when transitioning your industrial computing design from the Low Pin Count (LPC) bus to the more flexible and efficient enhanced Serial Peripheral Interface (eSPI) bus that is available in the next generation of chipsets and Central Processing Units (CPUs). Our ECE1200 eSPI-to-LPC Bridge enables you to implement the eSPI standard in boards with legacy LPC connectors and peripherals, so you do not have to sacrifice years of investment in legacy LPC equipment to take advantage of the power savings and speed improvements of the eSPI bus.

To minimize design risk, the eSPI bus technology has gone through intensive validation for industrial computing applications and has been validated with leading processor companies. In addition, Intel® Corporation consulted with Microchip on the architecture and development of the ECE1200 to ensure that requirements for industrial and embedded customers would scale across Intel Atom®, Intel Core™ and Intel Xeon® platforms. Key requirements include industrial temperature support and compatibility to existing deployed modular LPC-based systems, with concurrent eSPI and LPC support for new system architectures.

The ECE1200 is simple to implement and does not require any software. It detects and supports Modern Standby mode with low standby current to help you manage operating costs and efficiencies, while maintaining the features end users expect from modern devices. To streamline your development, the ECE1200 comes with a BIOS porting guide, schematics and a layout guide.



“As Intel transitions to more power-efficient, high-speed serial interfaces like eSPI, it recognizes that its industrial and embedded customers have invested heavily in legacy LPC-based systems that must be sustained and transitioned over time.”

Christine Boles
Vice President,
IOTG Industrial Solutions Division
Intel Corporation

Key Features

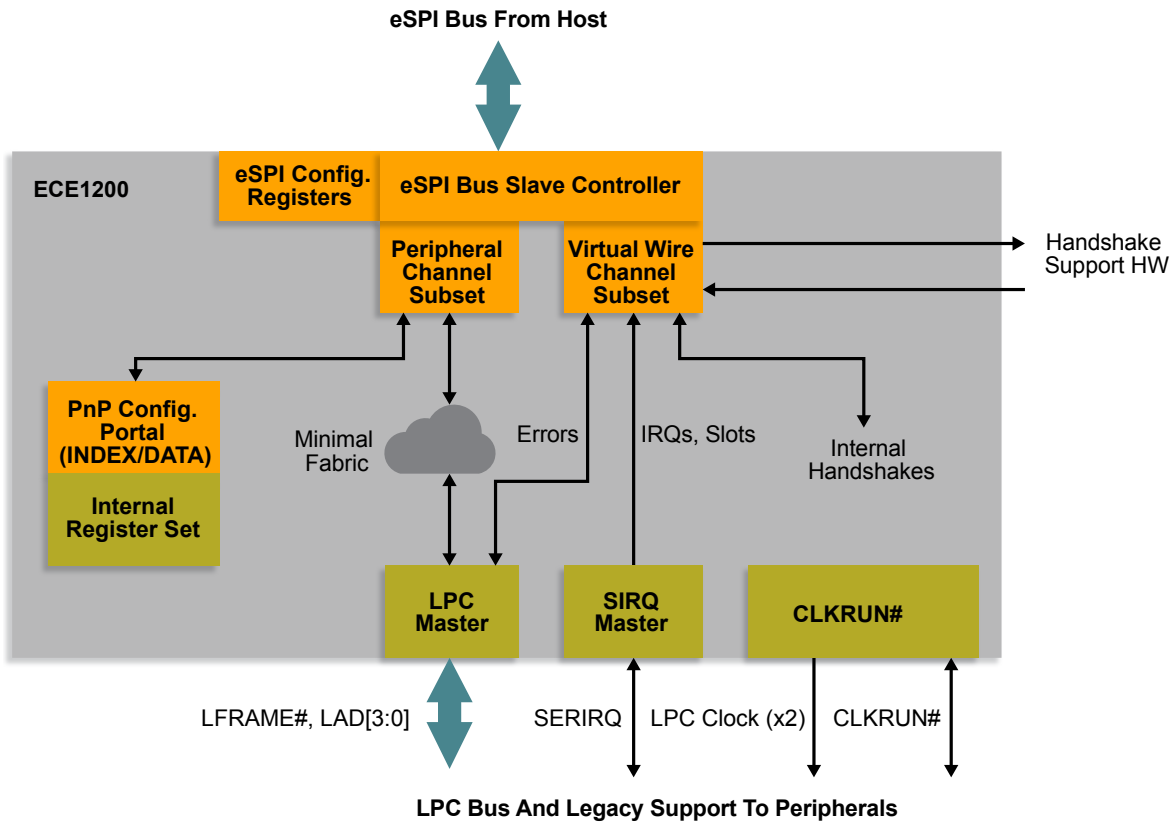
- Detects and supports modern standby mode
- ACPI 6.1 compliant
- Supports LPC-based Super I/O and embedded controllers such as SCH311x, SCH322x
- eSPI peripheral channel cycles in 64K I/O space will pass through as LPC I/O cycles, except for the local plug-and-play INDEX/DATA portal registers
- 40-pin VQFN package
- Industrial temperature range: -40°C to +85°C

Industrial

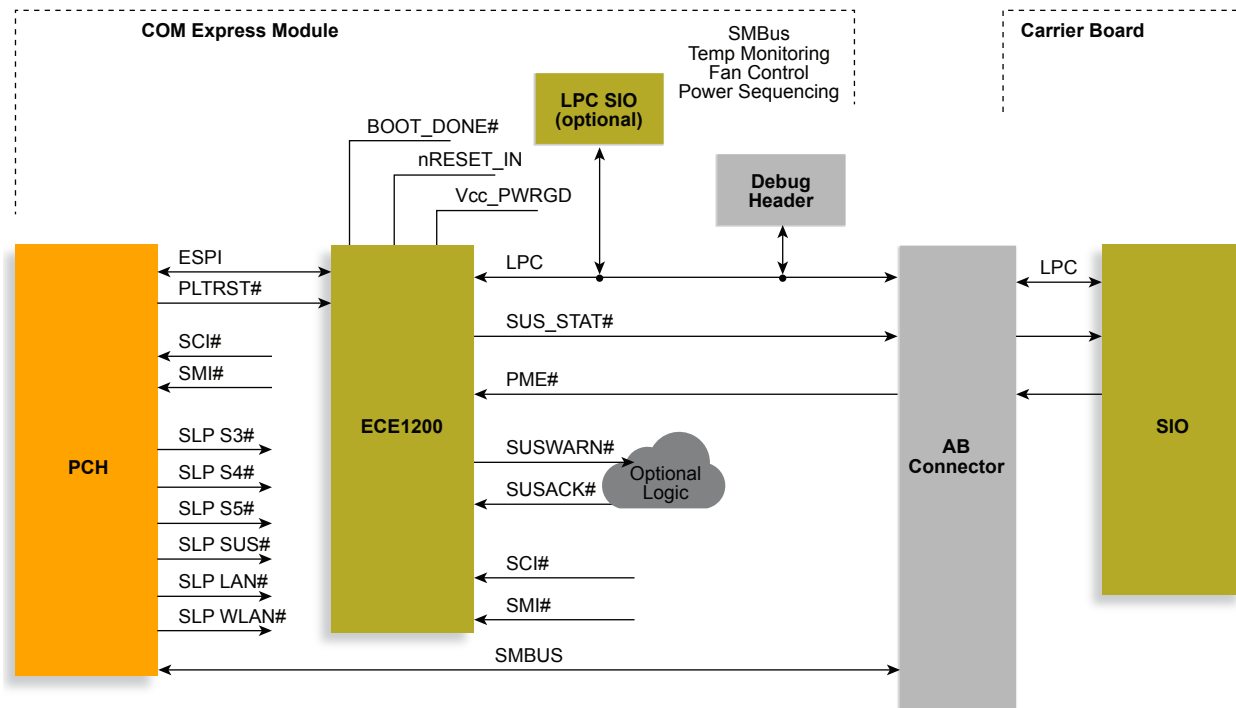
- Automation
- Printers
- Information kiosks
- POS terminals
- ATMs
- Gaming
- VR glasses
- Digital signs
- Street lights
- Transportation

Industrial Computer

- Single board computer
- Industrial PC
- PC/104
- Com express



ECE1200 – Com Express



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