Product Brief

Agilex™ 5 FPGA E-Series 065B Modular Development Kit

Description

The Agilex™ 5 FPGA E-Series 065B Modular Development Kit is one of Altera's latest and most adaptable development kits. It is designed to tackle today's embedded and edge market needs. Powered with the Agilex 5 FPGA and SoC, a midrange FPGA manufactured using Intel® 7 technology, the development kit is optimized for high performance and lower power, delivering the perfect balance of power efficiency and performance. The development kit is shipped with a modular board and a carrier board. The modular board comes with its own set of features and connectors, allowing it to function stand-alone. The feature-rich carrier card expands its capabilities, making it suitable for a variety of embedded designs and edge applications – from video and vision processing to factory automation, healthcare imaging systems, and many more.

Figure 3. Modular Board + Carrier Card

The Modular Board

- Module Power
- uSD Card
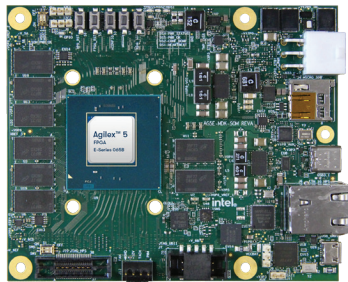- USB TYPE-C
- RJ45
- uUSB UART
- SDM JTAG
- HPS JTAG

Figure 1. Modular Board

The Carrier Board

- Video interfaces – HDMI, DP, MIPI, SDI
- Network – 10/25GE, TSN
- FMC
- PCIe EF – PCIe CEM ¾ FF, Dual slot
- PTP – IEEE1588 Circuit
- Debug - SDM
- Application specific carrier
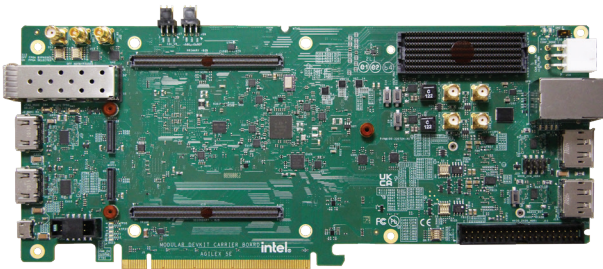- Carrier board reusable beyond Agilex 5 FPGA E-Series

Figure 4. Block Diagram
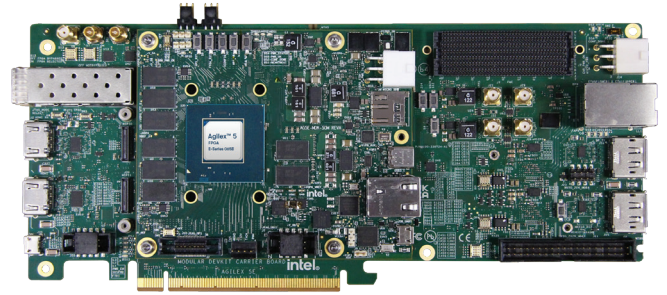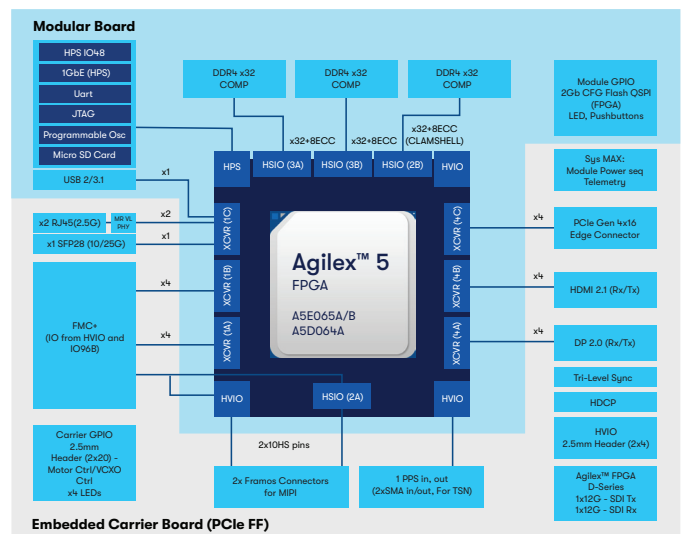
Customers can use this board for prototyping, then move to their own production board or leverage a production-qualified board from our vast ecosystem of system-on-module (SOM) providers.

For More Information

- Contact an Altera sales representative for inquiries.
- Orderable Part Number: MK- A5E065BB32AES1.
- For Altera® FPGA design examples, go to the FPGA Design Store.

Figure 2. Carrier Board

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