

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

Description

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, lower power, delivering the perfect balance of power-efficiency and performance. Modular Development kit gets shipped with a Modular board and a Carrier board. The main modular board comes with its own set of features and connectors allowing it to function standalone. The feature rich carrier card expands its capabilities making it suitable for a variety of of embedded designs and edge applications – from video and vision processing, factory automation, healthcare imaging systems, and many more.

The Modular Board

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

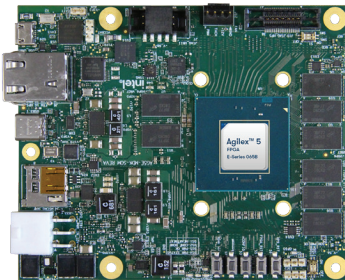


Figure 1. Modular Board

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

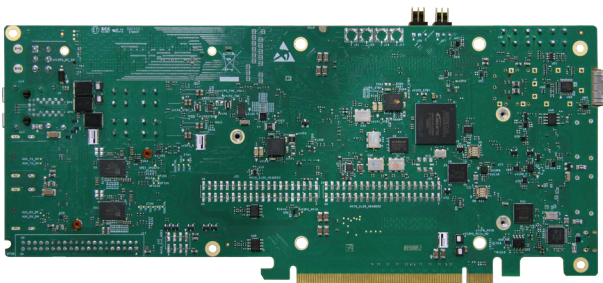


Figure 2. Carrier Board

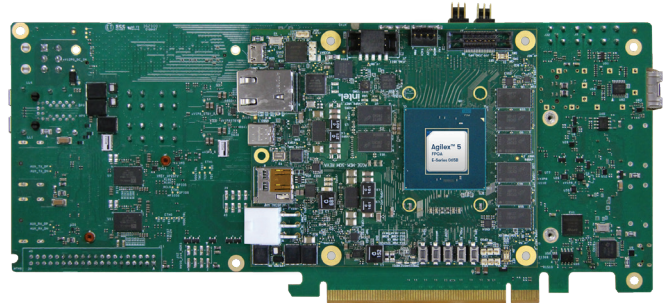


Figure 3. Modular Board + Carrier Card

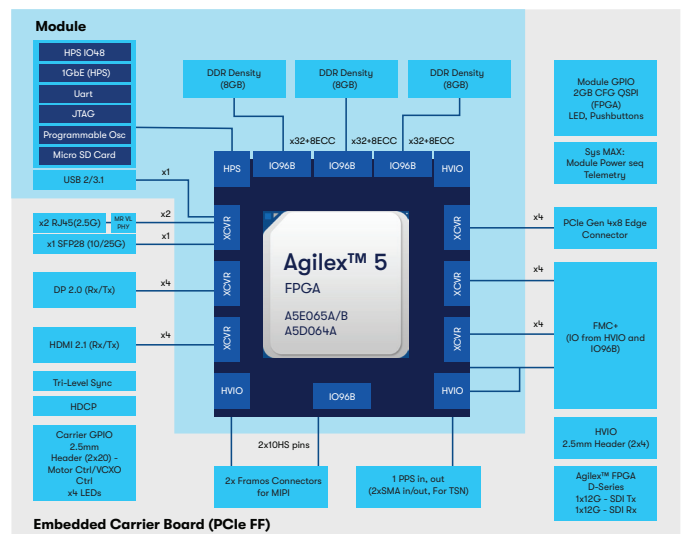


Figure 4. Block Diagram

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 more information about Altera® FPGA design example, [contact Altera](#).