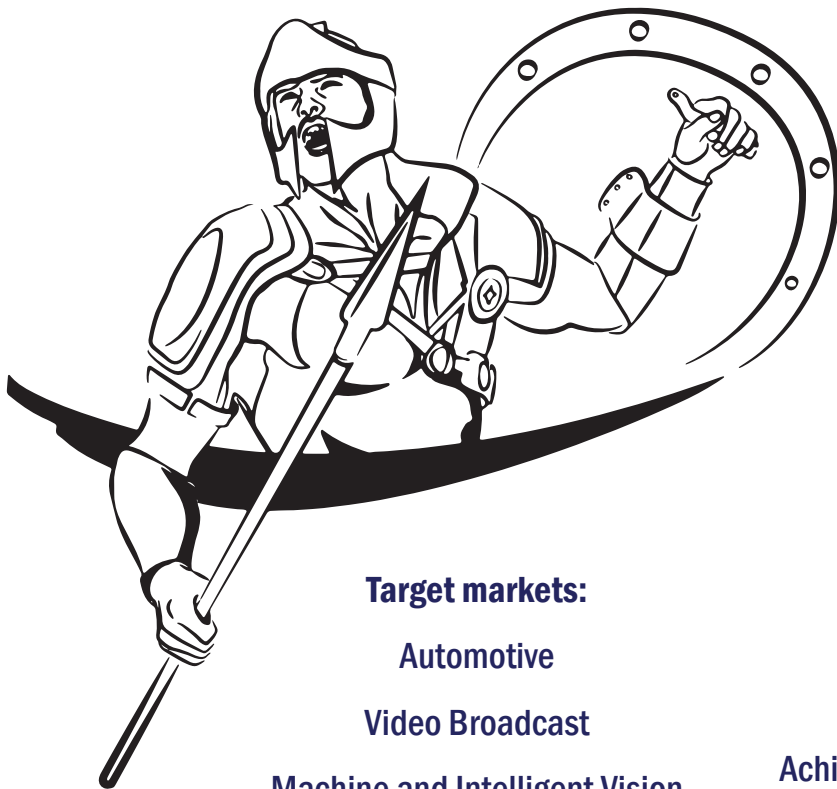




Instant-DevKit Arria 10 SoC SoM IDK

Target markets:

Automotive

Video Broadcast

Machine and Intelligent Vision

Industrial

Military

Test & Measurement

Medical

Achilles **Instant-Development Kit** provides to developers the best Out-Of-The box experience, combining the Best-In Class compact hardware platform and the most efficient intuitive software environment.

DevKitInvasion



ATTILA

Arria 10 FPGA FMC IDK



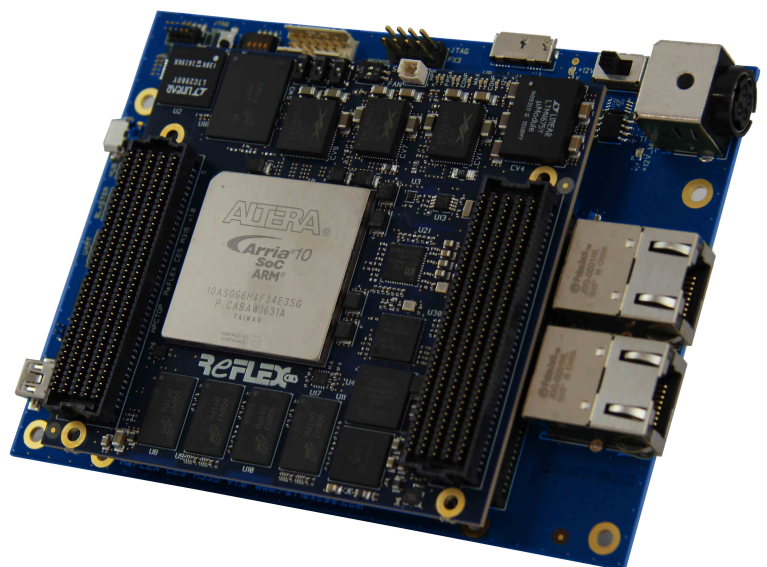
ALARIC

Arria 10 SoC FMC IDK



ACHILLES

Arria 10 SoC SoM IDK



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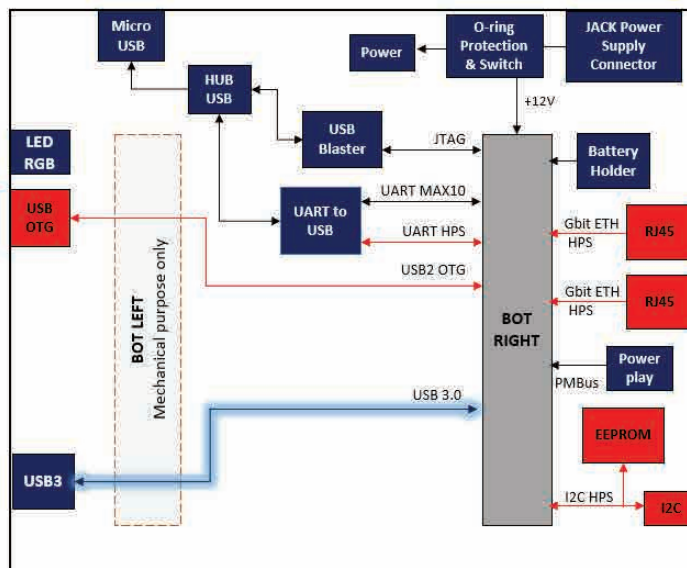
ALTERA **Arria¹⁰** 
now part of Intel

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Starter board



Configuration & Monitoring

- Onboard USB Blaster JTAG configuration circuitry to enable FPGA configuration over USB connector.
- One μ USB connector allows interfacing UART bus and communicate with the MAX 10 and the HPS FPGA.
- One connector for connecting a Linear Powerplay DC1613A USB cable
- PMBus interface : Digital Power System management is ready, configure and interrogate the PSM Devices with LTpowerPlay

Communication Interfaces

- 2x Ethernet 10/100/1000 Base-T (HPS)
- 1x I²C (HPS)
- 1x USB3.0 Micro B (FPGA)
- 1x USB OTG Mini AB (HPS)

Board size = 100mm (3.94 inches) x 140 mm (5.51 inches) / Fan on top for SoM A10

Power = Evaluation mode on desk with AC power supply

Standards and compliance

- RoHS/REACH compliant
- ISO9001 Facility
- UL certified
- Operating Range : 0°C to 70°C

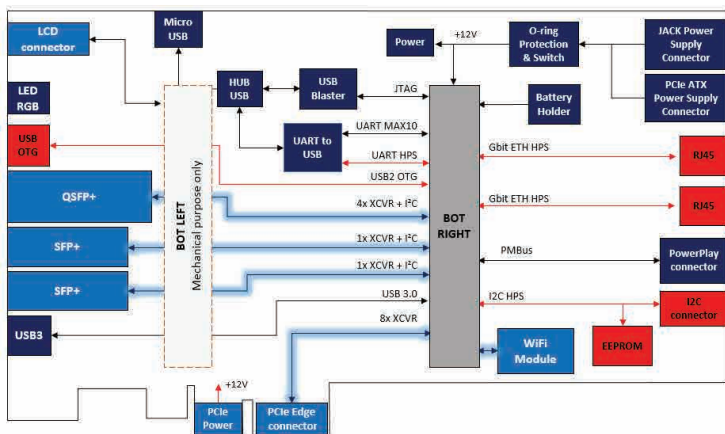
Kit Ordering information

Version	Part number	Kit content
Development Kit (Starter board + Module)	RXCA10S066PF34-IDK0SA	- Power cable (US, UK, EU, JP), cables (USB, Ethernet) - Starter board A10 SoC SoM - Arria 10 SoC SoM "Ultra" version - Starter Guide, Reference Manual - ReFLEX CES innovative software interface (GUI) - Test Designs (Quartus II Projects), Mechanical drawings - Schematics (pdf), assembly files (pdf), Base board guidelines

Optional feature

In addition to the Instant-DevKit, you can order the PCIe Carrier Board

PCIe Carrier Board



Board size

- Standard height (111.15 mm / 4.376 inches) x Half length (167.65 mm / 6.600 inches) / Fan on top for SoMA10

PCIe Carrier Board Ordering information

Part number = RXCA10S0000F34-FHP0SA

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Communication Interfaces

- PCI Express x8 Gen 1/ 2/ 3 on PCI Express edge connector
- 1x QSFP+ quad optical cage (4 XCVR:10.3125 Gb/s per link)
- 2x SFP+ single optical cage (2 XCVR : 10.3125 Gb/s per link)
- 2x Ethernet 10/100/1000 Base-T (HPS)
- 1x USB3.0 Micro B (FPGA)
- 1x USB OTG Mini AB (HPS)
- Atmel Wifi 802.11 b/g/n IoT (Internet of Things) module which is specifically optimized for low power IoT applications. Module provides SPI and SDIO to interface to host controller.

- One 1x10pts connector for connecting an LCD

Power

- Evaluation mode on desk with AC power supply or can be inserted into a PCIe slot and used as a PCIe card

Standards and compliance

- RoHS/REACH compliant
- ISO9001 Facility
- UL certified
- Operating Range : 0°C to 70°C