



## Instant-DevKit Arria® 10 SoC SoM IDK



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



**ALARIC**  
Arria® 10 SoC FMC IDK

**SARGON**  
Stratix® 10 FPGA FMC+ IDK

**Target markets:**

Medical Military

Industrial

Automotive

Video Broadcast

Test & Measurement

Machine and Intelligent Vision

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# ACHILLES Instant-DevKit

## Arria® 10 SoC SoM IDK

### Configuration & Monitoring

- Onboard USB Blaster JTAG configuration circuitry to enable FPGA and MAX10 configuration over USB connector.
- µUSB connector interfacing UART bus, MAX® 10 and the HPS FPGA.
- 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 I<sup>2</sup>C (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)

**Power** - Evaluation mode on desk with AC power supply

**Standards and compliance** - RoHS/REACH compliant, ISO9001

### Kit Ordering information

#### Part number

RXCA10S066PF34-IDK05A

#### Kit content

- Starter board with the Achilles Arria® 10 SoC module (+ heat spreader, heat sink and fan)
- Power supply and cables (US, UK, EU, JP), interface cables (USB, Ethernet)
- Module, Starter board, PCIe carrier board documentation (Reference Manual, Starter Guide)
- Starter board & PCIe carrier board schematics
- Carrier Design Guide
- Mechanical drawings PDF, 3D Step, Assembly files PDF

#### Version

- Development Kit (Starter board + Module)
- HDL Test Designs (Quartus projects) by module version
- 10GbE RefDesign
- Kernel Linux & Linaro optimized distribution, U-boot bootloader, Test scripts
- Online support at [support.reflexces.com](http://support.reflexces.com) :
  - Quartus Prime Pro DKE / OpenCL SDL license under request at [support.reflexces.com](http://support.reflexces.com)

