

Video DevKit Cyclone V AVDB

The Cyclone V AVDB Video Development Kit provides to developers the best Out-Of-The-Box experience, offering the Best-In-Class FPGA video platform and the widest embedded video applications.

Target markets:

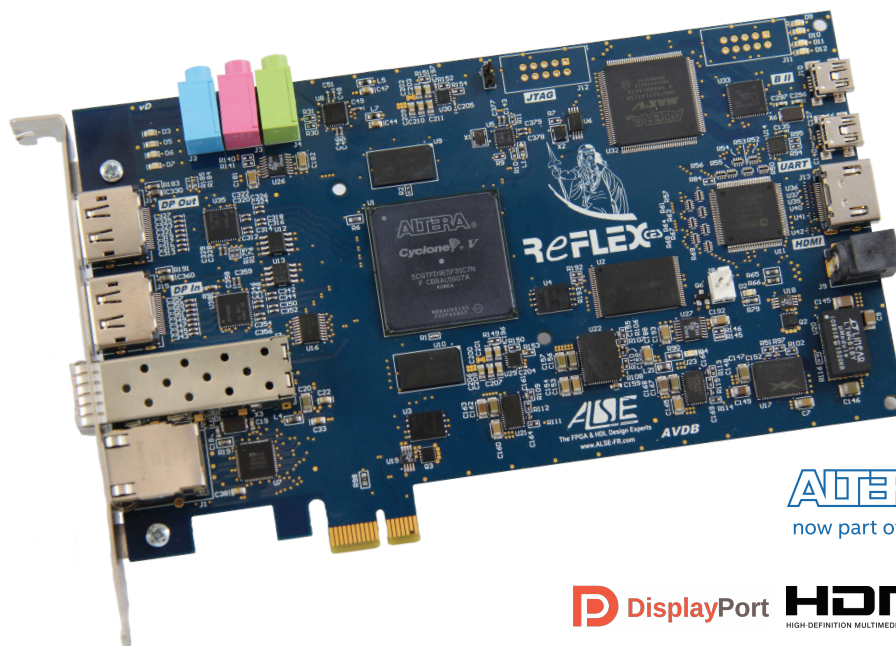
Video broadcasting

Real time video

Industrial Imaging

Ultra high speed network card

This State-of-the Art High-End board is an excellent choice for Professional A/V Developers and Manufacturers.



ALTERA
now part of Intel

Cyclone[®] V
FPGA • SoC

DisplayPort

HDMI[™]
HIGH DEFINITION MULTIMEDIA INTERFACE

CE

PCI[®] EXPRESS

Contact us :

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FPGA and configuration modules

- Altera Cyclone V GT 301 kLEs (D9) FBGA 896 5CGTDF9
- 2 x Quad-SPI Flash: 256 Mbits config + 256 Mbits user
- Configuration and debugging can be performed using the on-board USB-Blaster II on board

Communication Interfaces

- PCI Express x1 (Gen 1) on PCI Express edge connector
- 1x SFP+ quad optical cage (1XCVR : 6.144 Gb/s)
- Other protocols supported by SFP modules : SDI + HD-SDI + 3G-SDI
- 1GbE 10Base-T/100 Base-TX/1000Base-T networking interface

Versatile Video Input/output interfaces and Audio

- 1 x HDMI 1.4a input connector
- 1 x full size Display Port 1.2 input connector
- 1 x Full size Display Port 1.2 Video output connector usable as HDMI output.
- On board Analog Device Audio Codec with associated audio connectors (on top)

Kit Content

- Standard height PCIe Board form factor
- PCIe bracket
- Content and Limitations letter
- Starter Guide
- Power Supply and adapter cable (US,UK,EU,JP)

Kit Ordering information

- Clovis CycloneV Video Development Kit (AVDB)
RXCC5T030PF31-IDK00A

Board Capabilities

- The PCIe bandwidth allows full Gigabit data streaming transfers
- Several ready-made applications are available as options for developers who want to focus on the internal processing while controlling the application through Ethernet and using UDP streaming. Please contact ALSE for more information.

- ALSE has developed IP blocks (to purchase separately, if needed) for all the board's functions, including :

Ultra High performance Gigabit Ethernet communication hardware stack (GEDEK), multi-format HDMI in/out (up to Ultra-HD/4K) with sound, video coder/decoder. The Altera Video IP (VIP) suite can also be used on AVDB

Power Supply

- Power consumption < 15 W, PCIe or Jack connector (12V)

Board Size

- Standard Height PCIe board : 180 mm x 106,65 mm

Memories

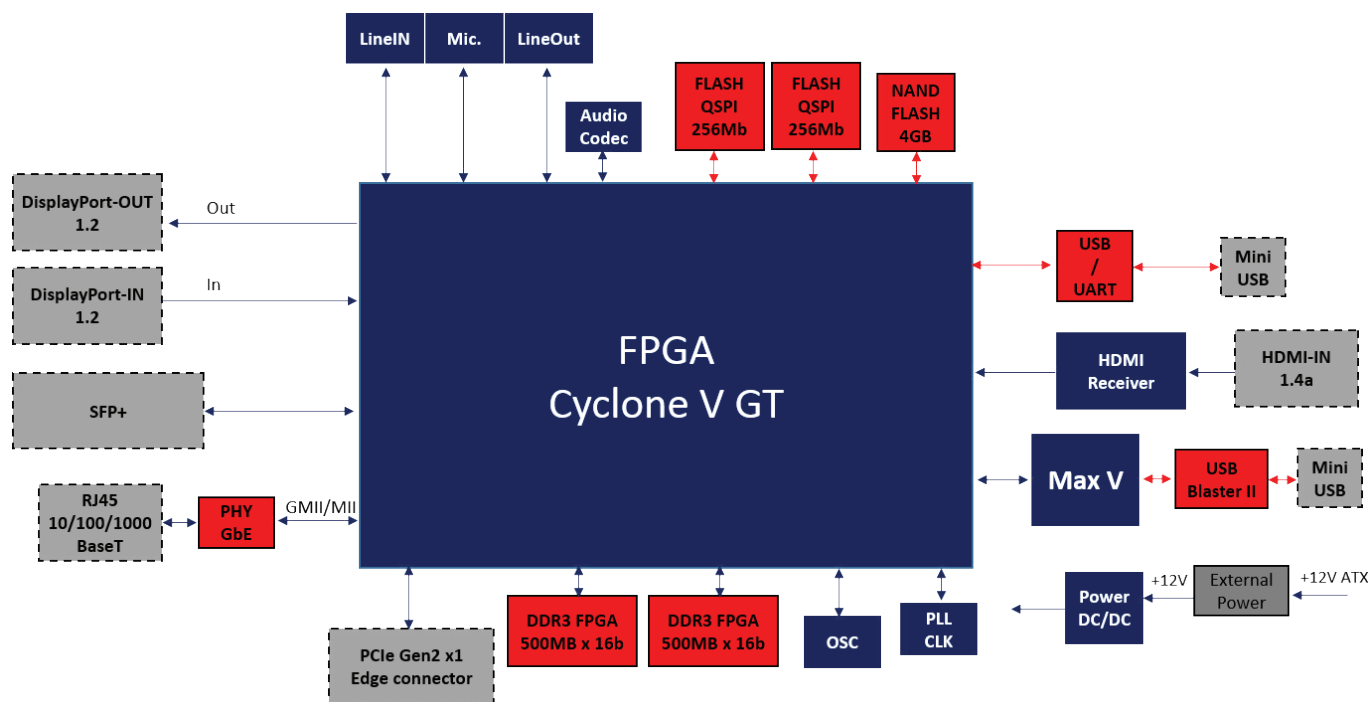
- On board DDR3 - 800 MHz/1GB
- On board 32 Gigabits NAND Flash can store up to 4 Gbytes of data

- USB 2.0 High speed type AB cordon
- Ethernet CABLE 7' CAT5E STD, male, RJ-45
- DisplayPort 1.2 cordon
- Display Port Male to HDMI Female Converter Cable

Partner



Advanced Logic Synthesis for Electronics
The ASIC-FPGA Design Experts



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