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Components – EMEA

PolarFire™ Everest DEV Board MPF300TS PolarFire™ FPGA



PolarFire™ Everest DEV Board MPF300TS PolarFire™ FPGA

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Revision 1.0.0, 24.06.2019

V | Five Years Out



Arrow.com

Demos & Resources

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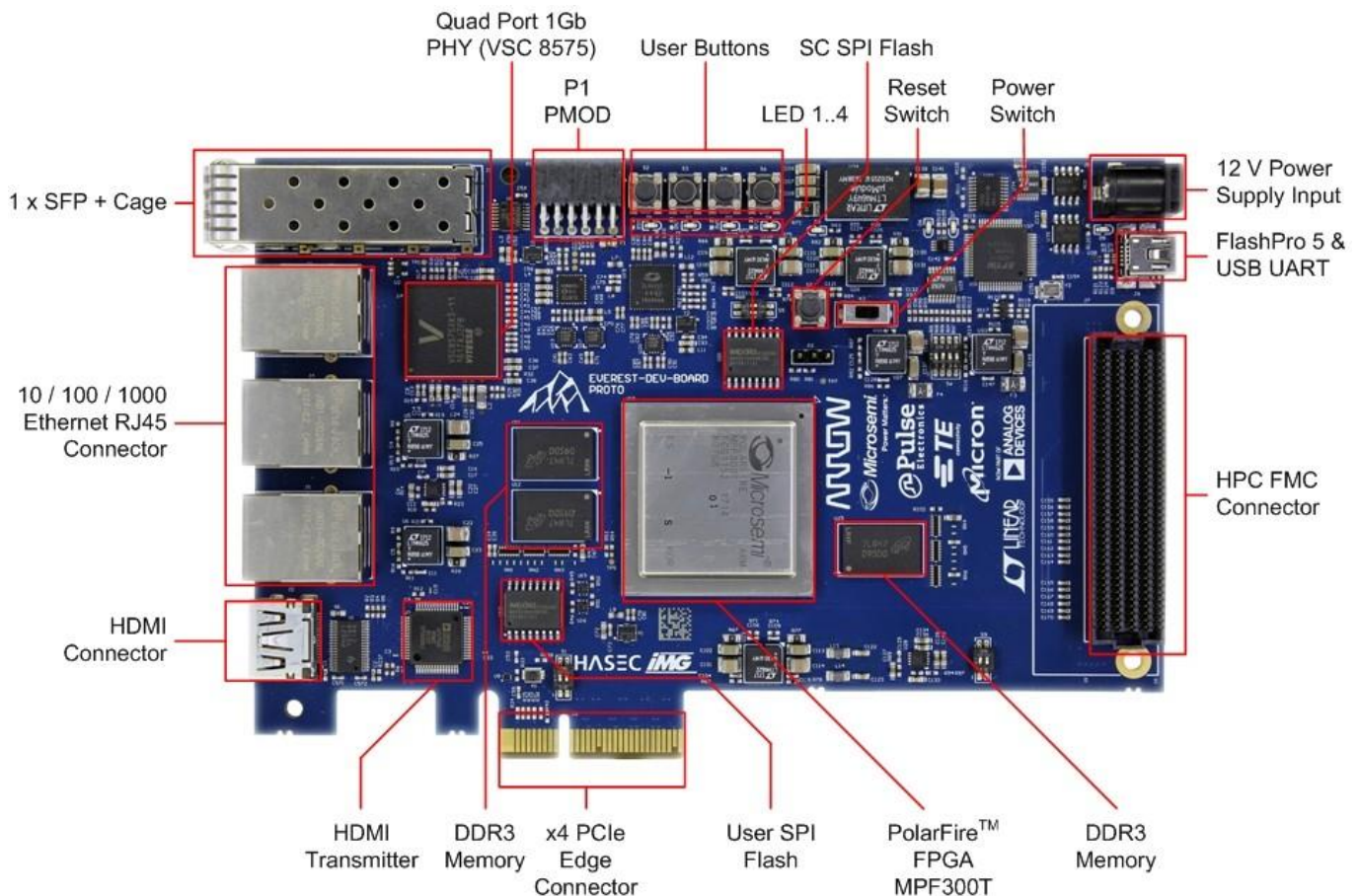
Revision History

Revision, Date	Editor	Subject (major changes)
Revision 1.0, 24.06.2019	Attila Ambrus	Release first version

Everest Development Board

This PolarFire™ Everest DEV Board is a product in cooperation with Arrow company and was created to enable the user to test his applications and designs immediately on hardware within a short amount of time. To do so, this board was equipped with numerous components (see image).

The central element is the MPF300TS-1FCG1152EES, an FPGA of the PolarFire™ family.



Characteristics

- VSC8575 with three RJ45 connectors for 10/100/1000 Mbps ethernet
- 8 Full-Duplex Transceiver lanes connected through FMC connector
- HPC FMC connector
- DDR3 memory
- X4 lane PCIe edge connector
- Two SPI Flash devices (user/config)
- HDMI output (1080p60 & UXGA)
- Low Speed Expansion: PMOD, UART, SPI, I2C, GPIO, LEDs & Buttons

Possible Applications

- Low power applications
- Embedded systems
- Safety-critical applications SIL
- Medical and industrial applications
- Automotive sector

Scope of delivery

- Evaluation Board with power supply
- 1 Year Libero Gold Software License Included with the Kit!
- Available for purchase as a download:
 - Documentation
 - Circuit, parts list, component diagram
 - Application examples

Downloads:

[Getting Started](#)

[Board Data](#)

[UserGuide](#)

[LAB1 Everest CortexM1 Demo](#)

[LAB2 Everest CortexM1 Frequency Synthesizer Demo](#)

[LAB3 Everest CortexM1 HDMI Demo](#)

[LAB4 Everest CortexM1 Loop Demo](#)

[LAB5 Everest RISC-V Demo](#)

[LAB6 Everest PCIe EP DDR3 Demo](#)

[LAB7 Everest CortexM1 10G Ethernet Webserver Demo](#)

[LAB9 Everest UART to SPI-FLASH Demo](#)

[LAB10 Everest Tiny Yolo v2.0 Demo](#)

[LAB11 Everest MI-V MIPI Demo](#)

Getting Started

[Everest-DEV-Board-Getting-Started.pdf](#)

Board Data

[PCB-EVEREST-DEV-BOARD-ES-Rev.B.PDF](#)

[SCH-EVEREST-DEV-BOARD-ES-Rev.B.PDF](#)

[BOM-EVEREST-DEV-BOARD-ES-Rev.B.PDF](#)

UserGuide

[Everest-DEV-Board-User Guide Rev1 2.pdf](#)

LAB1 Everest CortexM1 Demo

[LAB1 Getting Started.pdf](#)

[LAB1 readme.txt](#)

[LAB1 Bitstream.zip](#)

[LAB1 Bitstream ES.zip](#)

[LAB1 PF Libero v12p0 Workspace.zip](#)

[LAB1 PF Libero v12p0 Workspace--Source files only.zip](#)

[LAB1 PF Libero v12p0 Workspace ES.zip](#)

[LAB1 PF Libero v12p0 Workspace ES--Source files only.zip](#)

[LAB1 SoftConsole v5p1 Workspace.zip](#)

LAB2 Everest CortexM1 Frequency Synthesizer Demo

[LAB2 Getting Started.pdf](#)

[LAB2 readme.txt](#)

[LAB2 Bitstream.zip](#)

[LAB2 Bitstream ES.zip](#)

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[LAB2 SoftConsole v5p1 Workspace.zip](#)

LAB3 Everest CorterxM1 HDMI Demo

[LAB3 Getting Started.pdf](#)

[LAB3 readme.txt](#)

[LAB3 Bitstream.zip](#)

[LAB3 Bitstream ES.zip](#)

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LAB4 Everest CortexM1 Loop Demo

[LAB4 Getting Started.pdf](#)

[LAB4 Bitstream.zip](#)

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[LAB4 SoftConsole v5p1 Workspace.zip](#)

LAB5 Everest RISCv Demo

[LAB5 Getting Started.pdf](#)

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[LAB5 Bitstream ES.zip](#)

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[LAB5 SoftConsole v5p1 Workspace.zip](#)

[LAB5 SoftConsole v6p0 Workspace.zip](#)

LAB6 Everest PCIe EP DDR3 Demo

[LAB6 Getting Started.pdf](#)

[LAB6 Bitstream.zip](#)

[LAB6 Bitstream ES.zip](#)

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[LAB6 PF Libero v12p0 Workspace ES.zip](#)

[LAB6 PF Libero v12p0 Workspace ES--Source files only.zip](#)

LAB7 Everest CortexM1 10G Ethernet Webserver Demo

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[LAB7 Bitstream.zip](#)

[LAB7 Bitstream ES.zip](#)

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[LAB7 PF Libero v12p0 Workspace ES.zip](#)

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[LAB7 SoftConsole v5p1 Workspace.zip](#)

LAB9 Everest UART to SPI-FLASH Demo

[LAB9 Getting Started.pdf](#)

[LAB9 Bitstream.zip](#)

[LAB9 Bitstream ES.zip](#)

[LAB9 flashtool.zip](#)

[LAB9 PF Libero v12p0 Workspace.zip](#)

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[LAB9 PF Libero v12p0 Workspace ES.zip](#)

[LAB9 PF Libero v12p0 Workspace ES--Source files only.zip](#)

[LAB9 SoftConsole.zip](#)

LAB10 Everest Tiny Yolo v2.0 Demo

[LAB10 Bitstream ES.zip](#)

[LAB10 Bitstream PP.zip](#)

[LAB10 Getting Started.pdf](#)

[LAB10 PC software.zip](#)

[LAB10 Firmware BIN ES.zip](#)

[LAB10 Firmware BIN PP.zip](#)

[LAB10 tiny yolo user guide.pdf](#)

LAB11 Everest MI-V MIPI Demo

[LAB11 Getting Started.pdf](#)

[LAB11 Bitstream.zip](#)

[LAB11 Bitstream ES.zip](#)

[LAB11 Bitstream PROTO.zip](#)

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[LAB11 PF Libero v12p0 Workspace PROTO.zip](#)

[LAB11 PF Libero v12p0 Workspace PROTO--Source files only.zip](#)

[LAB11 SoftConsole v5p2 Workspace.zip](#)