XSCM-EV

XCZU4EV Quad ARM® Cortex®-A53 Core 1.5 GHz-based & Dual ARM® Cortex™-R5 Processor Development Platform.

Features

- H.264/H.265 video codec.
- Up to 4Kx2K@30 resolution with advanced image preprocessing.
- High performance multi-core processor and FPGA computing.
- 16nm FinFET+ programmable logic.

Introduction

Hoatech's new released XSCM-EV is built with Xilinx XCZU4EV IC (Zynq® UltraScale+™ MPSoC EV series) that features Quad ARM® Cortex®-A53 Core 1.5 GHz, Dual ARM®Cortex™-R5, and ARM Mali™-400 MP2 for increasing computing power and FPGA coprocessors for advanced image processing.

The XSCM-EV is a fully integrated platform that has been specifically designed for developing applications in fields of Intelligent Image Recognition, AI Camera Systems, and Smart IP Surveillance Camera…etc.
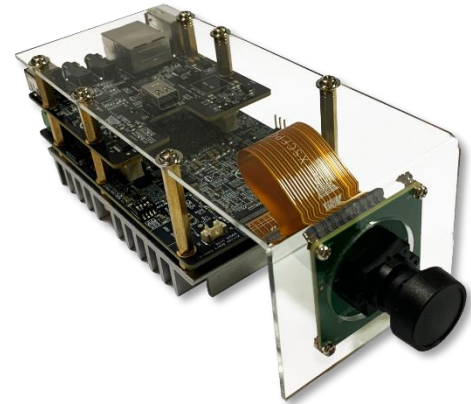
Specifications

Processors & Memory	
Processor	Xilinx Quad ARM® Cortex®-A53 Core 1.5 GHz-based & Dual ARM® Cortex™-R5 Processor
Graphic Processor	ARM® Mali-400 MP2
RAM	4G-Byte DDR4 SDRAM
Storage	8G-Byte eMMC & Micro SD Card Holder
Sensor	
Image Sensor	On-Semi AR1335 CMOS Image Sensor
Resolution	13MP@30 fps, Pixel Size: 1.1 um
Sensor Size	1/3.2"
Format	Color
FPGA	
Size	Refer to Zynq UltraScale+ MPSoC Selection Guide.
I/O Interface	
Ethernet	1 x GbE
Display	1 x Mini Display Port
Audio	1 x Input & 1 x Output
USB	1 x USB 2.0 Type A Connector
Debugging	1 x 3.3V UART & 1 x JTAG Port
Advanced	
Reset Button	Supported
GPIO Pins	3 x Programmable GPIO Pin
LED Indicators	1 x Red & 1 x Green
Environment & Electrical	
Power Input	12 VDC
Operating Temp.	0 ~ 40° C

Ordering Information

- **XSCM-EV-L1 (Regular Model)**
  XCZU4EV-L1SFVC784I is populated. A53 core can run up to 1.2GHz.
- **XSCM-EV-3 (Custom-Made Model)**
  XCZU4EV-3SFVC784I is populated. A53 core can run up to 1.5GHz.