

EM-ZynqBox

Application Ready FPGA Platform



**Application Ready FPGA Platform with Camera Interfaces,
Gigabit Ethernet, HDMI, Serial/CAN and Expansion Slot for
Automotive (ADAS), Image Processing and Industrial Applications (IoT)**

- Xilinx Zynq FPGA with integrated Processing System
- Reference Designs for advanced Image Processing
- Front Interfaces: Gigabit Ethernet, USB, HDMI, Serial/CAN and JTAG
- 5 LVDS Camera Interfaces (Rosenberger HSD)
- Expansion Slot for AMC modules
- Power Supply 12V DC
- Low Power (<20W)
- Optional: fanless version

EM-ZynqBox

The EM-ZynqBox can be used for development e.g. of advanced image processing algorithms used in FPGA applications. Therefore it provides 5 camera interfaces with automotive HSD connectors.

It can be extended with optional AMC modules providing project specific hardware components and connectors.

Target Applications are:

- Automotive (ADAS)
- Advanced Image Processing
- Surveillance
- Industrial (IoT)

EM-ZynqBox is designed for development, test and integration and deployment in machines or vehicles.

Technical Information

Type	FPGA Box	Xilinx FPGA Zynq-7000 Device (Zynq Ultrascale+ in preparation) SoC CPU included in FPGA package Two banks of DDR3 (FPGA 64-bit, CPU 32-bit)
Interfaces	Ethernet USB Graphic Ports Serial Ports Camera Interfaces JTAG	2x Gigabit Ethernet RJ-45 2x USB 2.0 1x HDMI 2x RS232, optional: CAN 5x LVDS (HSD) for Xilinx Platform Cable USB II
Expansion (optional)	AMC	Single-width full-size AMC module
Mechanical	Mounting Dimensions (W x H x D) Weight	Desktop 310 x 44 x 221 mm 1.5 kg
Power	Input Voltage Range	12 VDC
Power Consumption	Typical	<20 W
Environment	Operating Temperature Storage Temperature Relative Humidity Operating Vibration Operating Shock	-5°C to 45°C (optional: -20°C to +70°C) -40°C to +85°C 95% @ 40°C (non-condensing) 5 to 500Hz, 1G 30Gs, each axis
Software Support	Linux	PetaLinux V2014.4 Board Support Package Pre-Installed in QSPI with file system on SD card
Reference Designs	Base I/O Channels	VHDL/Vivado Default FPGA Image in Flash

Ordering Information

Configuration	Description	Order Code
EM-ZynqBox 7045	ZynqBox, Standard, 12V with Xilinx Zynq 7045 FPGA	A09552
EM-ZynqBox 7100	ZynqBox, Standard, 12V with Xilinx Zynq 7100 FPGA	A09553

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