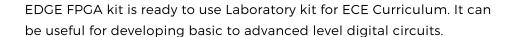


# ARTIX 7 FPGA DEVELOPMENT BOARD



### **Description**

EDGE Artix 7 FPGA Development board is upgraded version of EDGE Spartan 6 board. It is exclusively designed for the latest vivado Design Suite. The EDGE Artix 7 board is build around Xilinx Artix 7 XC7A35T FPGA IC. The features includes external memory SDRAM, HDMI Out, Micro SD, WiFi, Bluetooth, ADC, DAC, LCD, 7 Segment, camera, TFT, Buzzer, Switches, buttons and LEDs interface. Real Time image and video processing can be easily implemented with 32 MB of SDRAM onboard.



Advantage of EDGE FPGA kit is easy to implement plenty of applications ranging from Wireless control, Image/video Processing, Internet of Things without additional interfaces.

Xilinx offers free WebPACK™ versions of Vivado design suite, so designs can be implemented at no additional cost.

### Package includes

- EDGE Artix 7 FPGA Development Board
- Micro USB Cable
- LCD Display 2x16
- SPI TFT (optional)
- CMOS VGA Camera (optional)
- CMOS 5 MP Camera (optional)
- Sensor Addon (Gesture/Ultrasonic/Touch/Accelero.) (optional)
- Motor Addon (Stepper/DC/Servo/Relay) (optional)
- Acrylic Sheet Top/Bottom (optional)
- Lab Protection Box (optional)









# **EDGE** ARTIX 7 FPGA DEVELOPMENT BOARD

### **Technical Specification**

**FPGA** Xilinx Artix 7 XC7A35T-1FTG256C, 33208 Logic Elements, 1843200 bits

of Block RAM

**SDRAM** 32MB SDRAM

SPI FLASH 64 Mb FLASH for FPGA Configuration

Wi-Fi ESP-12F WIFI Modem Bluetooth Bluetooth BLE 4.0 **VGA** 12-bit, 4096 Colour

**HDMI HDMI OUT** 

Sensorl LM35 Temperature Sensor

Sensor2 **LDR** 

DAC 12-bit SPI DAC output at J7 Connector

Audio Stereo Jack

7 segment Display 4-Digit 7 Segment Display

LCD 2×16 Character LCD Buzzer 5v Piezo Buzzer Slide Switch 16 Nos of SPDT LEDs 16 Nos of LEDs

Push Button 5 Nos of Push Button

MicroSD Micro SD

**JTAG** USB JTAG for Programming and Debugging. Fully Compatible with

Xilinx Vivado Tool.

**UART** USB UART can communicate at different baud rate

Clock 50 MHz Single Ended

#### **Technical Specification (Optional Accessories)**

Camera VGA OV7670 CMOS Camera TFT 1.8 inch SPI TFT, 128×160 Camera 5MP OV5640 CMOS Camera

Digital Sensor Addon Gesture sensor/ Ultrasonic Sensor/ Touch Sensor/ 3 axis Accelerometer Motor Driver Addon Stepper Motor/ DC Motor/ Servo Motor/ 2 channel Relay/ 12v Adaptor/

Motor Driver Board

## **Applications**

- Wireless Communication
- IoT (Internet of Things)
- Environment monitor
- Product Prototyping
- Image Processing
- Video Processing



