



# Ekalavya FPGA Boards

*Breakthrough Innovations*

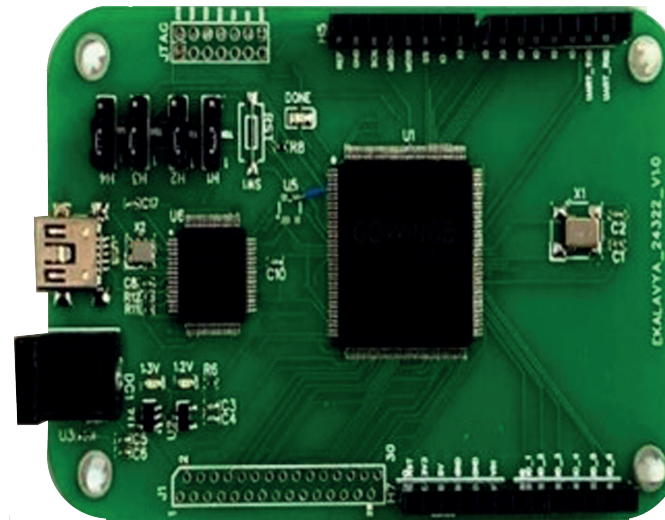
*A Made easy tool for Semiconductor industry  
aspiring professionals*

**Ekalavya FPGA Boards** is an open-source electronics platform which provides seamless implementation and testing for Arduino compatible plugins using VHDL/Verilog.

FPGA is being used to create ASIC and microcontrollers which find use in objects of daily use as well as complex scientific instruments.

### **SALIENT FEATURES**

- ◆ Varied algorithms that can be implemented to interact with wide range of sensors
- ◆ Simplified processes for embedded needs
- ◆ Robust IP Library for building applications for AI or ML
- ◆ Designed to work with Arduino add-on compatible boards
- ◆ User-friendly IDE that
  - Works on Windows and Linux
  - Incorporates built-in IP for UART, I2C, SPI, Video processing IP



### **USE CASES**

- ◆ Replaces lower power sensor module
- ◆ Implementation of Hardware based scheduling for efficient handling of multiprocessing
- ◆ VHDL/Verilog facilitates multiprocessing thereby eliminating overheads of embedded software

### **BENEFITS**

- ◆ Breaking down complex digital designs
- ◆ Affordable and relatively inexpensive
- ◆ Simple and clear programming environment that supports:
  - Creation of own microprocessor
  - Being user friendly to users of all level
  - Semiconductor aspirants to learn programming in VHDL / Verilog environment



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