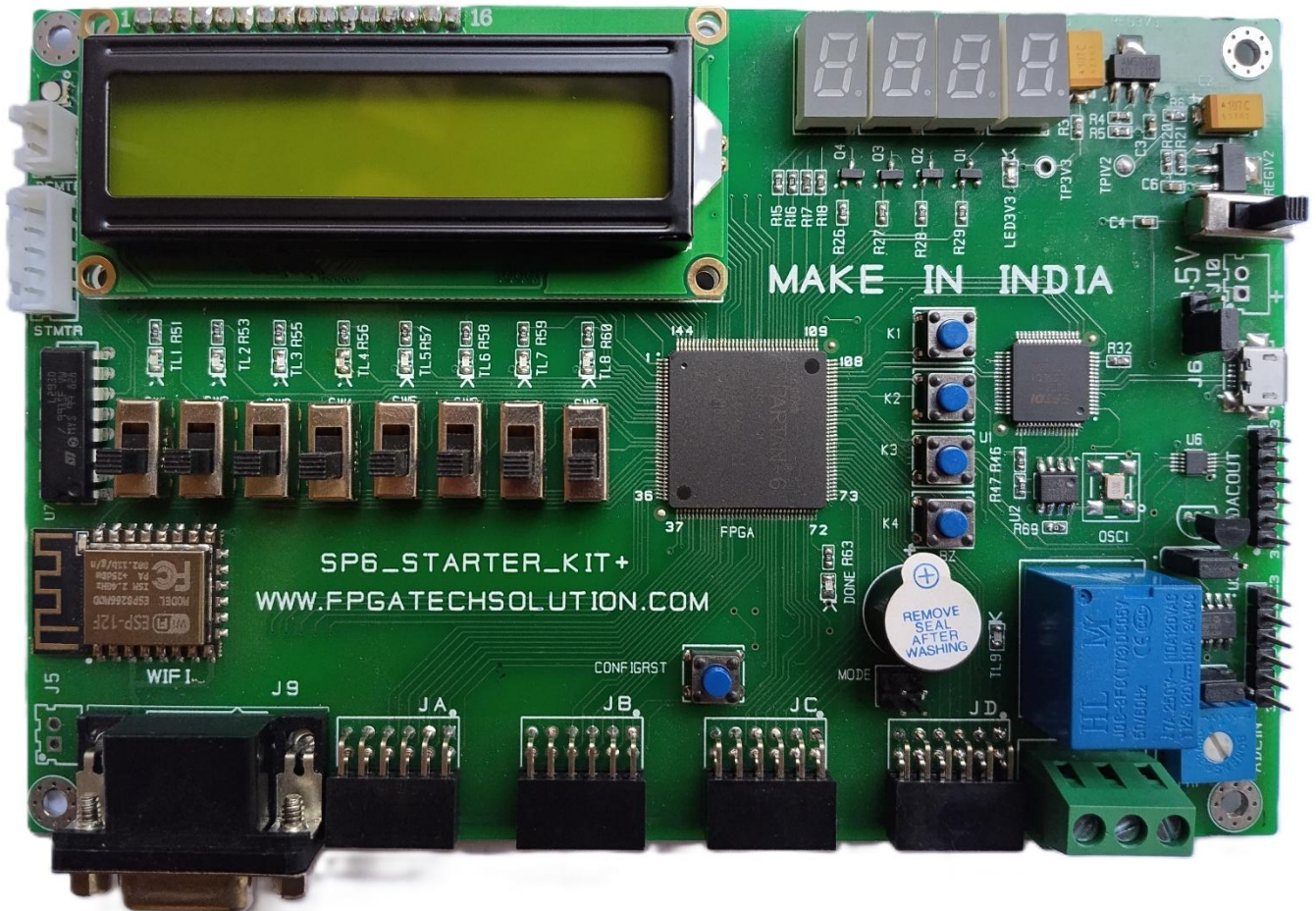**FPGA TECH SOLUTION**

SOLUTION AHEAD

The Spartan6 starter kit is a complete, ready-to-use digital circuit development platform based on the latest Spartan6 Field Programmable Gate Array (FPGA) from Xilinx. With its high-capacity FPGA, low overall cost, and collection of USB, VGA and other ports, the Spartan6 starter kit can host designs ranging from introductory combinational circuits to complex sequential circuits like embedded processors and controllers.

It includes enough switches, LEDs and other I/O devices to allow a large number designs to be completed without the need for any additional hardware, and enough uncommitted FPGA I/O pins to allow designs to be expanded using GPIO or other custom boards and circuits. An advantage of Spartan6 starter kit is more logics resources and fully compatible with **ISE design suite**. Xilinx offers **free** WebPACK™ versions of **ISE** design suite, so designs can be implemented at no additional cost.

The Spartan6 starter kit has on board USB JTAG which support **ISE impact**. Spartan6 starter kit is ready to use Laboratory kit for ECE Curriculum. It can be useful for developing basic to advanced level digital circuits.

Technical Specification

- **Spartan6 XC6SLX9_TQ144 FPGA**
- **OSCILLATOR – 12MHz**
- **FLASH – M25P80**
- **USB Power**
- **On board USB JTAG**
- **USB to serial**
- **10bit SPI ADC**
- **8bit SPI DAC**
- **8 LED**
- **8 DIP SWITCHS**
- **8 PUSH BUTTONS**
- **32 user I/O**
- **LCD 16By2**
- **7-Seg**
- **RELAY**
- **L293D Steeper & DC motor driver**
- **BUZZER**
- **RGB – LED**
- **WiFi**

Add on available with extra cost

- Matrix keypad 4x4   (Add on)
- RTC module   (Add on)
- OLED display 128*32   (Add on)
- Relay driver board   (Add on)
- Lab Protection Box   (Add on)

Applications

- Product Prototype Development
- Development and testing of custom embedded processors
- Signal Processing
- Communication devices development
- Educational tool for Schools and Universities

Package includes

- SPARTAN6 STARTER KIT
- USB cable
- 16BY2 LCD

Note: this board can be available with your Name on it