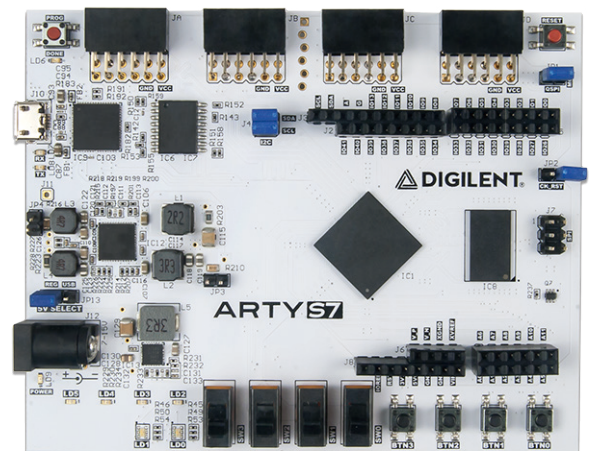


ARTY S7 : SPARTAN – 7 FPGA

INTRO TO FPGA

Offers the optimal size, performance and design. Great for hobbyists and makers. Provides users with a wide variety of I/O and expansion options.

- Best budget FPGA development board
- Fully compatible with Vivado Design Suite 2017.3 and above
- Wide range of compatible shields with dual row of Arduino® connectors
- Pmod ports allows for streamlined design with various Pmods input, output and communication accessories.

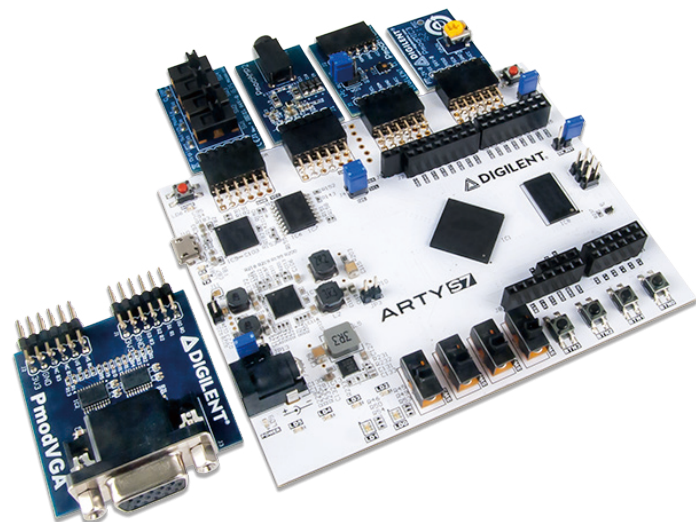


FEATURES

- Xilinx Spartan-7 FPGA
- 256MB DDR3L / 16-bit bus @650MHz
- 16MB Quad-SPI Flash
- USB-powered (or 7V-15V external)
- USB-JTAG Programming circuitry
- USB-UART Bridge
- 4 Pmod ports
- Dual Arduino® / chipkit Shield connector

APPLICATIONS

- Learning and understanding FPGA designs
- Connect to broad range of compatible sensors for analytics



Pmod Ports



Excelpoint Systems (Pte) Ltd

■ 15 Changi Business Park Central 1,
#06-01 Singapore 486057

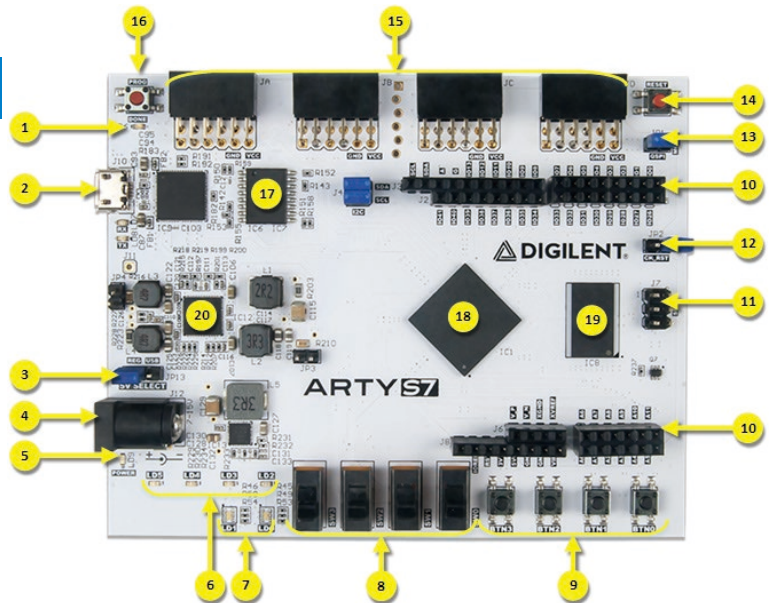
■ www.excelpoint.com

■ sales.enquiry@excelpoint.com.sg

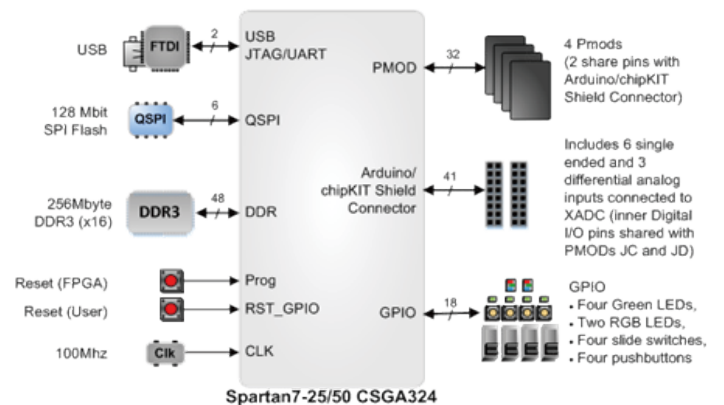
BOARD INPUTS/OUTPUTS

Callout Description

- 1 FPGA programming DONE LED
- 2 Shared USB JTAG / UART port
- 3 Power select jumper (Ext. supply / USB)
- 4 Power jack (for optional ext. supply)
- 5 Power good LED
- 6 User LEDs
- 7 User Tri color LEDs
- 8 User slide switches
- 9 User push buttons
- 10 Arduino/ChipKIT shield connectors
- 11 SPI header (Arduino/ChipKIT compatible)
- 12 Arduino IDE reset jumper
- 13 FPGA programming mode (JTAG/ Flash)
- 14 Processor reset
- 15 Pmod headers
- 16 FPGA programming reset button
- 17 SPI Flash
- 18 Spartan-7 FPGA
- 19 DDR3L memory
- 20 Analog devices ADP 5052 power supply

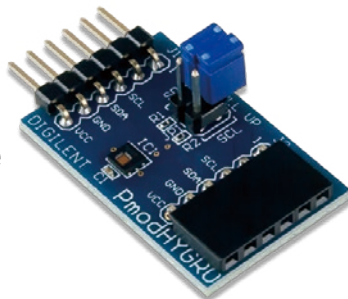


Arty S7 Block Diagram



PMOD ACCESSORIES

Pmod HYGRO:
Digital Humidity
and Temperature
Sensor



Pmod NAV:
9-axis IMU Plus
Barometer



May 2020 ver. ■

■ Contact

Excelpoint Systems (Pte) Ltd

- 15 ChangiBusiness Park Central 1
#06-00 Singapore 486057
- T +65 6741 8966 ■ F +65 6741 8980
- sales.enquiry@excelpoint.com.sg

Singapore +65 6741 8966
Australia – Sydney +61 2 8875 7726
India – Bangalore +91 80 4942 4311
India – Hyderabad +91 97 0375 3721
India – Mumbai +91 22 4237 5800
India – New Delhi +91 11 4731 9900
India – Pune +91 74 1008 1888

Indonesia – Jakarta +62 21 2993 0775
Malaysia – Penang +60 4 637 4219
Philippines – Manila +63 2 910 0438
Thailand – Bangkok +66 2 645 1388
USA – San Diego +1 858 352 6938
Vietnam – Hanoi +84 24 6296 2335
Vietnam – HCM City +84 28 6653 2940