Comparative Features of EDGE Artix 7 vs Basys 3 FPGA kit

Features	EDGE Artix 7 FPGA Development Board	Basys 3 Artix 7 FPGA Trainer Kit
FPGA	Xilinx Artix 7 XC7A35T-1FTG256C, 33280 Logic Elements, 1843200 bits of Block RAM	Xilinx Artix 7 XC7A35T-1CPG236C, 33280 Logic Elements, 1843200 bits of Block RAM
SDRAM	32MB SDRAM External Memory	
SPI FLASH	64 Mb FLASH for FPGA Configuration	64 Mb FLASH for FPGA Configuration
Wi-Fi	ESP-12F WIFI Modem	
Bluetooth	Bluetooth BLE 4.0	
VGA	12-bit, 4096 Colour	12-bit, 4096 Colour
HDMI	HDMI OUT	
Sensor1	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	4-Digit 7 Segment Display
LCD	2×16 Character LCD	
Buzzer	5v Piezo Buzzer	
Slide Switch	16 Nos of SPDT	16 Nos of SPDT
LEDs	16 Nos of LEDs	16 Nos of LEDs
Push Button	5 Nos of Push Button	5 Nos of Push Button
MicroSD	Micro SD card Slot	
JTAG	USB JTAG for Programming and Debugging. Fully Compatible with Xilinx Vivado Tool.	USB JTAG for Programming and Debugging. Fully Compatible with Xilinx Vivado Tool.
UART	USB UART can communicate at different baud rate	USB UART can communicate at different baud rate
Clock	50 MHz Single Ended	100 MHz
I/O Connectors	20 I/O Camera connector and 5 I/O TFT connector	3 PMOD Port
XADC	4 channel input XADC connector	XADC Port
USB HID Host		USB HID Host for mice, keyboards and memory sticks
Package Includes	EDGE Artix 7 FPGA kit, 2x16 LCD and USB Cable	Basys 3 FPGA kit