UDOO BOLT

Raising the Maker World to the Next Level

RYZEN

CPU
AMD Ryzen™ Embedded V1000
QUAD CORE/EIGHT THREAD
UP TO 3.6 GHZ

GPU
AMD RADEON™ VEGA 8
GRAPHICS (8 GPU CU)

I/O
ARDUINO
LEONARDO-COMPATIBLE
Embedded Controller I/Os

USB
2X **USB 3.0 TYPE-A**
2X **USB TYPE-C**

VIDEO
2X **HDMI 2.0**
2X **DP** (USB TYPE-C)

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BOARDS	UDOO BOLT V3	UDOO BOLT V8	FIELDS
FEATURES			
Processor	AMD RYZEN™ EMBEDDED V1202B	AMD RYZEN™ EMBEDDED V1605B	
CPU Core	DUAL CORE/QUAD THREAD @ 2.3GHZ (3.2GHZ BOOST)	QUAD CORE/EIGHT THREAD @ 2.0GHZ (3.6GHZ BOOST)	AAA GAMING
Graphics	AMD RADEON™ VEGA 3 GRAPHICS (3 GPU CU)	AMD RADEON™ VEGA 8 GRAPHICS (8 GPU CU)	
Multimedia	DIRECTX® 12, OPENCL™, OPENGL®, THE VULKAN® API H.265 DECODE & ENCODE (8-BIT), VP9 DECODE		VR-READY
Memory	2X DDR4 DUAL-CHANNEL 64-BIT SO-DIMM SOCKETS WITH ECC SUPPORT UP TO 32GB 2400 MT/S		
Mass Storage	32GB EMMC 5.0 HIGH SPEED DRIVE SSD SATA MODULE SLOT M.2 SOCKET KEY B 2260 (FEATURED ALSO PCI-E X2) NVME MODULE SLOT M.2 SOCKET KEY M 2280 (PCI-E X4 GEN 3 INTERFACE) SATA 3.0 6 GBIT/S STANDARD CONNECTOR		MEDIA CENTER
Networking	GIGABIT ETHERNET (RJ-45) REALTEK RTL8111G WIFI/BT COMBO MODULE SLOT M.2 SOCKET 1 KEY E 2230		HACKING
USB	2X USB 3.0 TYPE-A 2X USB TYPE-C: - USB 3.1 GEN 2 - DISPLAYPORT ALTERNATE MODE - USB POWER DELIVERY (USB-PD) 3.0		
Video Interface	2 X HDMI 1.4 / 2.0A (CEC) 2 X DP ALTERNATE MODE ON USB TYPE-C		ROBOTICS
Audio Interface	HD AUDIO CODEC REALTEK ALC888 3.5" COMBO CONNECTOR: HEADPHONE + MICROPHONE 3.5" COMBO CONNECTOR: S/PDIF OPTICAL + STEREO PRE-AMPLIFIED STEREO SPEAKER CONNECTORS		
Other Interfaces	FRONT PANEL HEADER, CONSUMER-IR RECEIVER, FAN CONTROLLER, RTC BATTERY INCLUDED		A.I.
I/O	ARDUINO LEONARDO-COMPATIBLE I/O: - 12X ANALOG INPUTS - UP TO 23X DIGITAL I/O (7 PWM) - 1X UART, 1X I2C, 1X SPI 3X GROVE CONNECTORS: - 1X ANALOG INPUT, 1X UART OR DIGITAL I/O, 1X I2C OR DIGITAL I/O EMBEDDED CONTROLLER I/O: - 2X UART, 2X I2C, 1X SPI, 1X KEYBOARD SCAN, 1X FAN CONTROLLER, 10X GPIO		INTERACTIVE ART
OS			WORKSTATION
Power In	DC IN JACK 19V 65W USB TYPE-C POWER DELIVERY		
Dimensions	12CM X 12CM - 4.72" X 4.72"		EDUCATIONAL