



AMD
EMBEDDED
SOLUTIONS

Computing Power

AMD Ryzen™ Embedded V1605B processor
up to 3.6 GHz

Graphics

Up to 4 Independent 4K Displays
with **AMD Radeon "Vega"** graphics

Modularity

2x DDR4 Dual-channel 64-bit up to 32gb;
SSD SATA Module Slot M.2;
NVMe Module Slot M.2;
Sata 3.0 6 Gbit/s

Flexibility

Arduino™ compatible, enabling the platform
for VR, AR and Mixed Reality applications

Reliability

Processor built for the embedded market,
with great durability and lasting power

Support

Helps guaranteed by our team and by the
large community



GEAR



FEATURES	UDOO BOLT GEAR	FIELDS
		
 Processor	AMD RYZEN™ EMBEDDED V1605B	 WORKSTATION
 CPU Core	QUAD CORE/EIGHT THREAD @ 2.0GHZ (3.6GHZ BOOST)	 HOME CINEMA
 Graphics	AMD RADEON™ VEGA 8 GRAPHICS (8 GPU CU)	 CONTENT CREATOR
 Multimedia	DIRECTX® 12, OPENCL™, OPENGL®, THE VULKAN® API H.265 DECODE & ENCODE (8-BIT), VP9 DECODE	 IMMERSIVE GAMING
 Memory	2X DDR4 DUAL-CHANNEL 64-BIT SO-DIMM SOCKETS WITH ECC SUPPORT UP TO 32GB 2400 MT/S	 INFOTAINMENT & VENDING
 Mass Storage	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	 A.I. & MACHINE LEARNING
 Networking	GIGABIT ETHERNET (RJ-45) REALTEK RTL8111G WIFI/BT COMBO MODULE SLOT M.2 SOCKET 1 KEY E 2230	 PROFESSIONALS
 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	 ENTERPRISE
 Video Interface	2 X HDMI 1.4 / 2.0A 2 X DP ALTERNATE MODE ON USB TYPE-C	 EDUCATION
 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, FAN CONTROLLER, RTC BATTERY INCLUDED	
 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 FAN CONTROLLER, 10X GPIO	
 OS	 	
 Power In	DC IN JACK 19V 65W USB TYPE-C POWER DELIVERY	
 Dimensions	13CM X 13CM X 7CM - 5,12" X 5,12" X 2,75"	