



Raising the Maker World
to the Next Level

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)

BOARDS

UDOO BOLT V3

UDOO BOLT V8

FIELDS

FEATURES



 Processor

AMD RYZEN™
EMBEDDED V1202B

AMD RYZEN™
EMBEDDED V1605B



AAA GAMING

 CPU Core

DUAL CORE/QUAD THREAD
@ 2.3GHZ (3.2GHZ BOOST)

QUAD CORE/EIGHT THREAD
@ 2.0GHZ (3.6GHZ BOOST)



VR-READY

 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

 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



ROBOTICS

 Video Interface

2 X HDMI 1.4 / 2.0A (CEC)
2 X DP ALTERNATE MODE ON USB TYPE-C

 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



A.I.

 Other Interfaces

FRONT PANEL HEADER, CONSUMER-IR RECEIVER,
FAN CONTROLLER, RTC BATTERY INCLUDED



INTERACTIVE ART

 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



WORKSTATION

 OS



 Power In

DC IN JACK 19V 65W
USB TYPE-C POWER DELIVERY



EDUCATIONAL

 Dimensions

12CM X 12CM - 4.72" X 4.72"