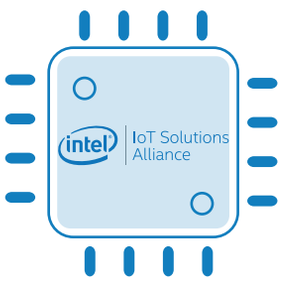
THE NEXT-GEN INTEL® X86 II OPEN HARDWARE SBC

X86II

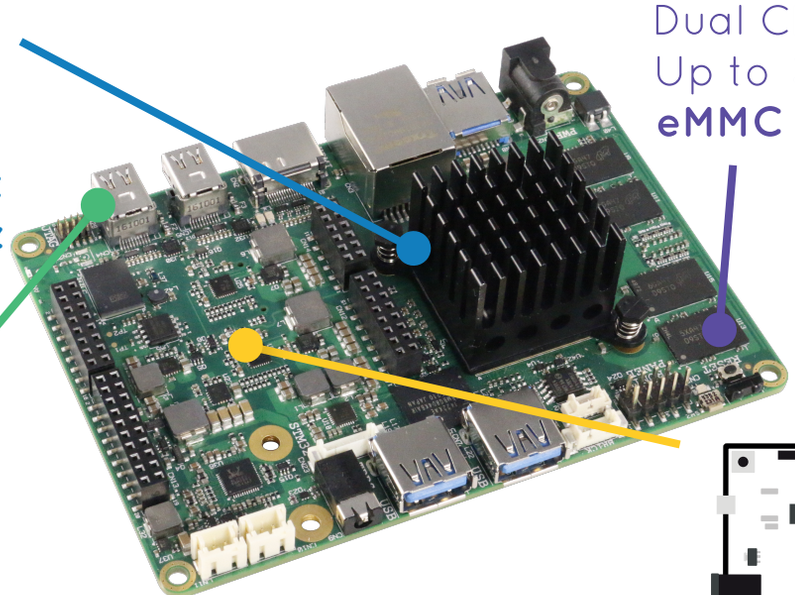
www.udoo.org

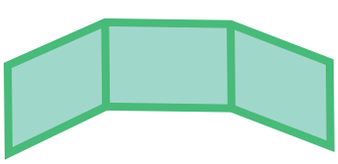


Quad core 64 BIT
CPU Up to **2.56 GHz**
GPU Up to **700 MHz**

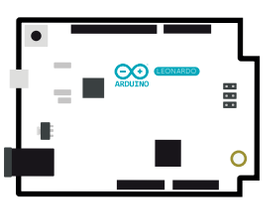


Up to **8 GB**
Dual Channel **RAM**
Up to **32 GB**
eMMC Drive*





Up to **3 simultaneous screens**
1x HDMI, 2x MiniDP++

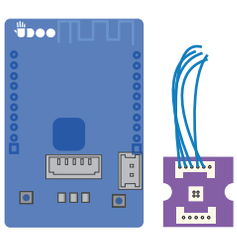


Embedded
Arduino™ Leonardo-compatible

Bluetooth 4.0 and Wi-Fi**



IoT Ready:
Main cloud services, UDOO BRICKS & UDOO BLU



Operating Systems:
Windows 10, 8.1, 7, + All Linux Flavors for x86, Android



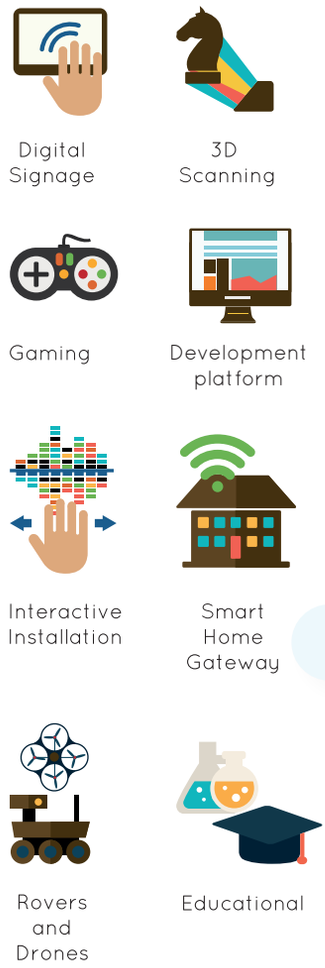
Low Consumption and Fanless



* Depends on version
** Optional

FEATURES	UDOO X86 ADVANCED PLUS	UDOO X86 ULTRA
PROCESSOR	**2.24 GHZ INTEL® CELERON® N3160**	**2.56 GHZ INTEL® PENTIUM ® N3710**
CORES	4	
MEMORY	**4 GB DDR3L DUAL CHANNEL**	**8 GB DDR3L DUAL CHANNEL**
MASS STORAGE	SATA connector - M.2 Key B SSD Slot - Micro SD card slot	
	eMMC 32 GB	eMMC 32 GB
USB	3x USB 3.0 type-A sockets	
NETWORKING	Gigabit Ethernet LAN interface M.2 Key E slot for optional Wireless modules	
VIDEO INTERFACE	1 x HDMI 2 x mini DP++	
GRAPHICS	Intel HD Graphics 400 Up to 640 MHz 12 execution units	Intel HD Graphics 405 Up to 700 MHz 16 execution units
MULTIMEDIA	HW Video decode: H.265/HEVC, H.264, MPEG2, MVC, VC-1, WMV9, JPEG, VP8, VP9 HW Video encode: H.264, MVC, JPEG	
AUDIO	HD audio codec ALC 283CG Microphone+Headphone combo connector Preamplified speaker output - S/PDIF output	
IR	RC5 IR interface	
OTHER INTERFACES	Up to 20 GPIOs - 2x I2C - 2x UART - LPC - SDIO - Touch Screen signals on external pin headers	
OPERATING SYSTEM		
DIMENSIONS	120 mm x 85 mm (4.72 inch x 3.35 inch)	

Main Fields of Application



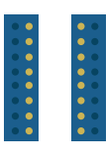
The communication between the Braswell SoC and the ATmega32U4 Microcontroller goes through an internal USB interface just like Arduino Leonardo boards connect to external PCs.

Arduino™ Leonardo Microcontroller

Microcontroller	ATmega32U4
Other Interfaces	1 UART 1 x i2C 1 x SPI
Arduino Pinout	Arduino® Leonardo-compatible and compatible with most Arduino shields 5V compliant
Digital I/O Pinout	Up to 23 x digital I/O (7 PWM)
Analog I/O Pinout	12 x Analog input

UDOO X86 II is ARDUINO LEONARDO-COMPATIBLE

ARDUINO™ PINOUT



8.05.19