




FEATURES	UDOO X86 BASIC	UDOO X86 ADVANCED	UDOO X86 ADVANCED PLUS	UDOO X86 ULTRA
PROCESSOR	2.00 GHZ INTEL® ATOM™ X5-E8000	2.24 GHZ INTEL® CELERON® N3160	2.24 GHZ INTEL® CELERON® N3160	2.56 GHZ INTEL® PENTIUM® N3710
CORES	4			
MEMORY	2 GB DDR3L	4 GB DDR3L DUAL CHANNEL	4 GB DDR3L DUAL CHANNEL	8 GB DDR3L DUAL CHANNEL
MASS STORAGE	SATA connector - M.2 Key B SSD Slot - Micro SD card slot			
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 (CEC) 2 x mini DP++			
GRAPHICS	Intel HD Graphics Up to 320 MHz 12 execution units	Intel HD Graphics 400 Up to 640 MHz 12 execution units	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 Pre-amplified speaker output - S/PDIF output			
IR	RC5 IR interface			
OTHER INTERFACES	Up to 28 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



Digital Signage



3D Scanning



Gaming



Development platform



Interactive Installation



Smart Home Gateway



Rovers and Drones



Educational

The communication between the Braswell SoC and the Curie™ SoC goes through a USB interface. Just like Arduino 101 / Genuino 101 boards connect to external PCs.

### UDOO X86 IS ARDUINO 101-COMPATIBLE

#### ARDUINO™ PINOUT



#### 6-AXIS



#### BLE



## Intel® Curie Microcontroller

Processor	Intel® Quark™ SE core 32 MHz plus 32-bit ARC core 32 MHz
Networking	Bluetooth Low Energy
Other Interfaces	SPI Flash JTAG connector SPI - I2C
Arduino Pinout	Arduino™101-compatible and compatible with most Arduino shields 3.3V compliant
Digital I/O Pinout	14 (4 PWM)
Analog I/O Pinout	6 (10 Bits of resolution)
Sensors	6-axis combo sensor with accelerometer and gyroscope UDOO Bricks connector

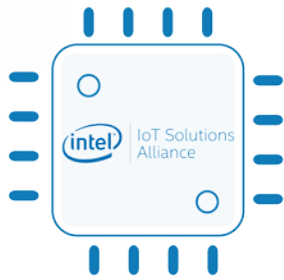
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# THE NEXT-GEN INTEL® x86 OPEN HARDWARE SBC

[www.udoo.org](http://www.udoo.org)

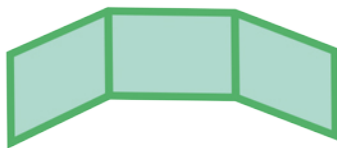
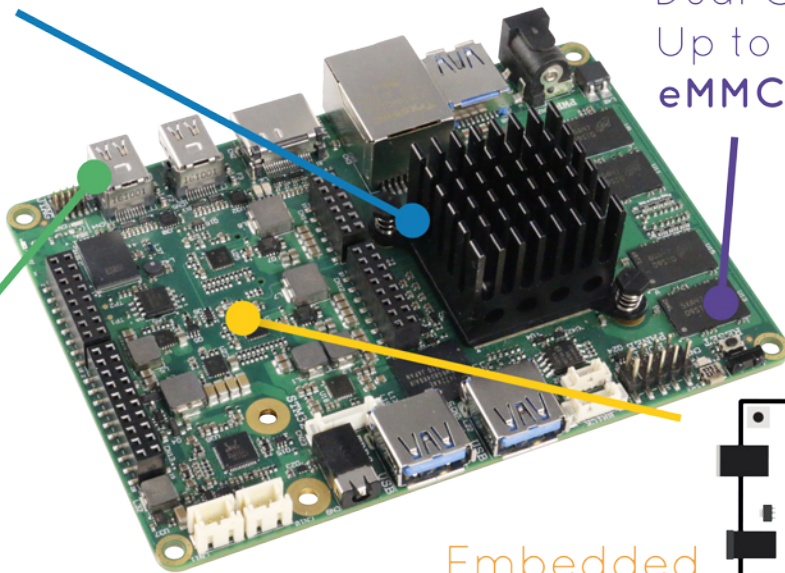
## X86



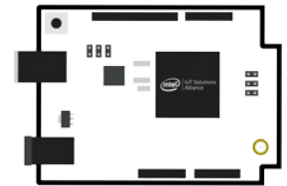
**Quad core 64 BIT**  
CPU Up to **2.56 GHz**  
GPU Up to **700 MHz**



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



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



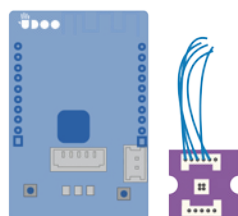
Embedded  
**Arduino 101-compatible**  
Bluetooth LE, 6-axis  
accelerometer/gyroscope

**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

