

처음 접하는 비글본 블랙

비글본 블랙 소개
준비하기
살펴보기



| 처음 접하는 비글본 블랙

| 비글본 블랙 소개

▪ 컴퓨터 종류



윈도우
(Windows)

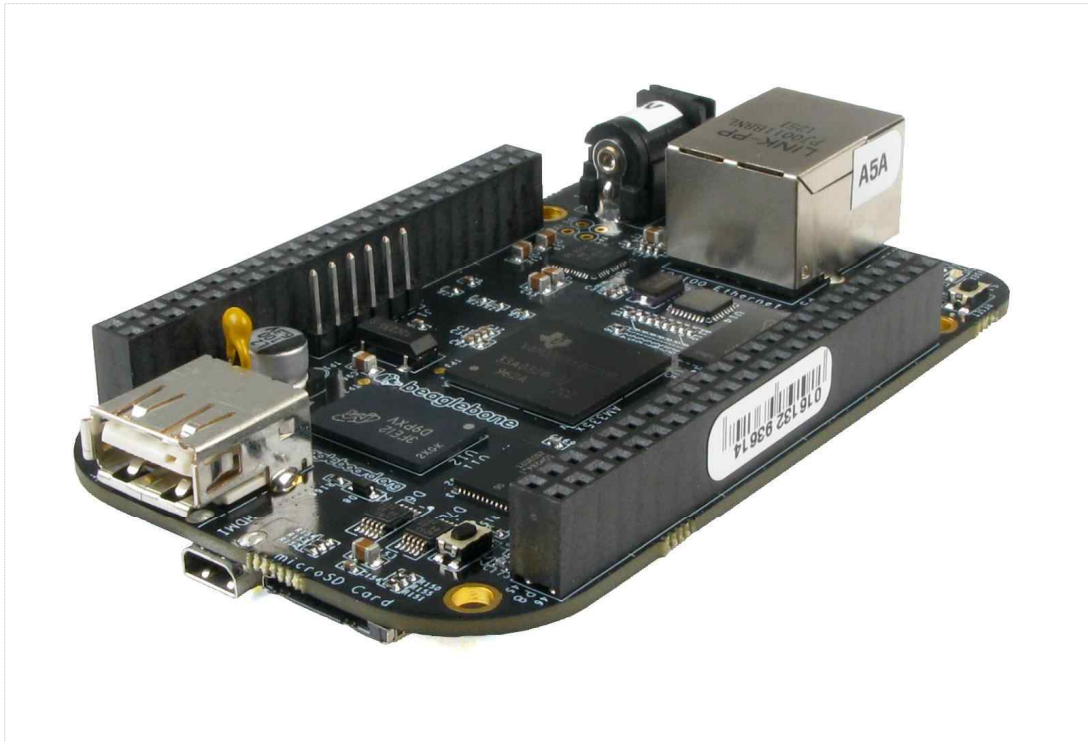


맥
(Mac)



리눅스
(Linux)

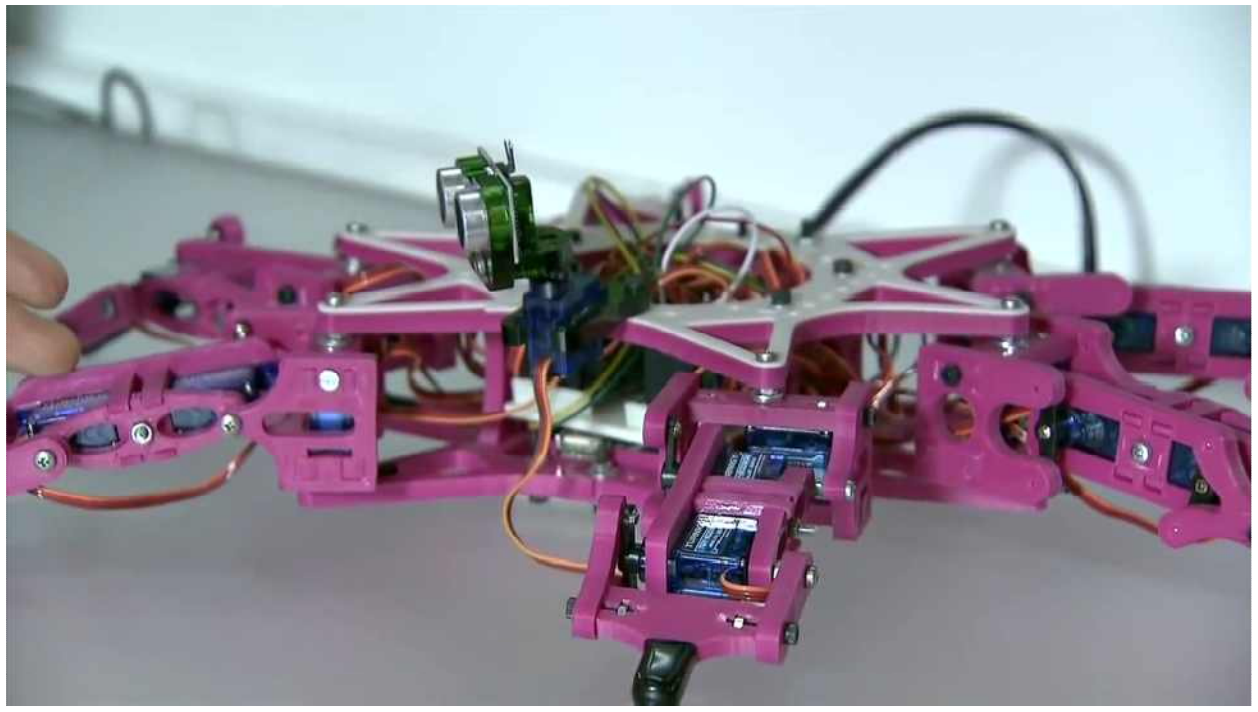
▪ 비글본 블랙



소형 리눅스 컴퓨터

USB를 이용해서 키보드와 마우스를 연결하고, HDMI를 통해 모니터를 연결하면 일반 데스크탑 컴퓨터로 사용할 수 있다.

- 비글본 블랙을 이용해 만든 거미 로봇



- 비글본 블랙을 이용해 만든 수중 탐사 로봇



1 비글본 블랙 소개

- 비글본 블랙을 이용해 만든 맥주 제조기



- 비글본 블랙 케이프



2 준비하기

| 준비하기

▪ 비글본 블랙 페이지

Step 1:
Plug in your Beagle via USB

Step 2:
Install drivers

Step 3:
Browse to web server on Beagle

Step 2 ➤ **Install drivers**

Install the drivers for your operating system to give you network-over-USB access to your Beagle. Additional drivers give you serial access to your board.

Operating System	USB Drivers	Comments
Windows (64-bit)	64-bit installer	If in doubt, try the 64-bit installer first.
Windows (32-bit)	32-bit installer	• Note #1: Windows Driver Certification warning may pop up two or three times. Click "Ignore", "Install" or "Run" • Note #2: To check if you're running 32 or 64-bit Windows see this: http://support.microsoft.com/kb/827218. • Note #3: On systems without the latest service release, you may get an error (0xc000007b). In that case, please install the following and retry: http://www.microsoft.com/en-us/download/confirmation.aspx?id=13523. • Note #4: You may need to reboot Windows.
Mac OS X	Network Serial	Install both sets of drivers.
Linux	mkudevrule.sh	Driver installation isn't required, but you might find a few udev rules helpful.

<http://goo.gl/I6ddqG>

▪ 연결 확인하기

BeagleBone 101

Software

- Update image
- Cloud9 IDE
- GateOne SSH

Hardware

- Headers
- Capes

BoneScript

Functions

- getPlatform()
- pinMode()
- getPinMode()
- digitalWrite()
- digitalRead()
- analogWrite()

Your board is connected!

BeagleBone Black rev OA5B S/N 2313BBBK0166 at 192.168.7.2

BeagleBone: open-hardware expandable computer

Artist-tested, engineer approved

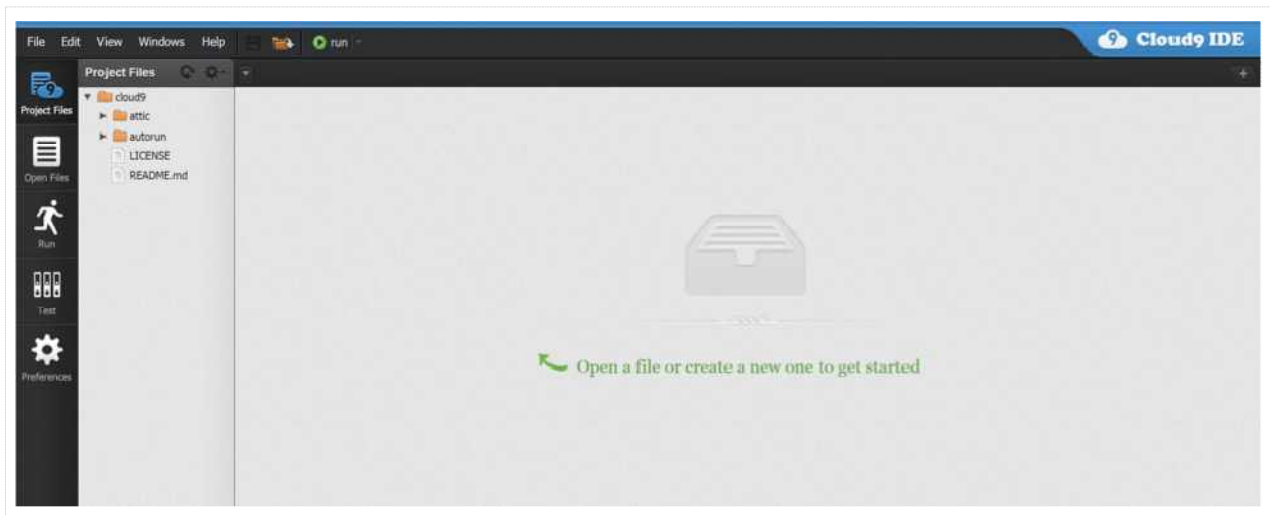
The left-hand navigation bar will help you explore your board and learn how to program it.

<http://192.168.7.2>

3 살펴보기

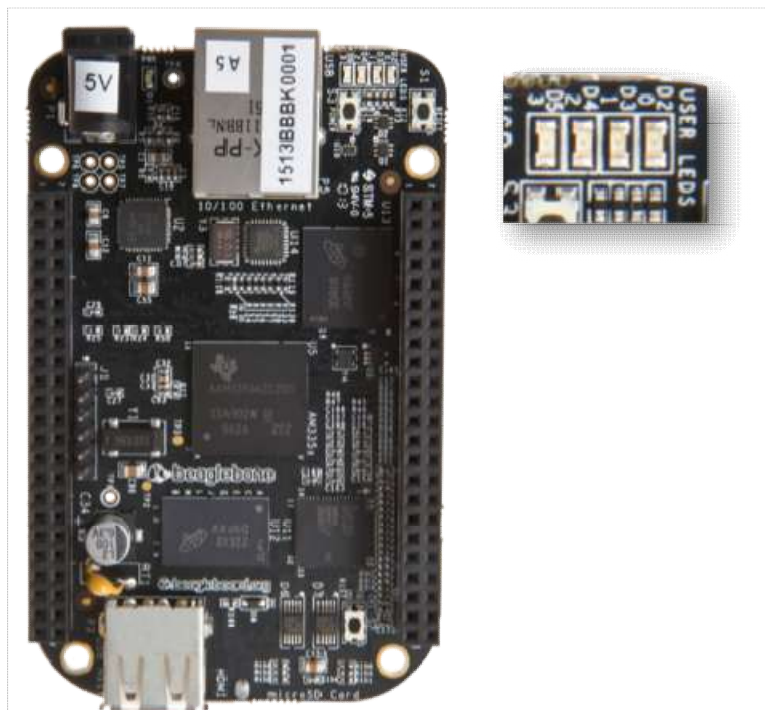
| 살펴보기

▪ 비글본 블랙 에디터



<http://192.168.7.2:3000>

▪ USB3 깜빡이기



이더넷 포트 우측에 있는 USB3 LED를 깜빡여본다.

| 비글본 블랙 코드

```
var b = require('bonescript');  
b.pinMode("USR3", b.OUTPUT);  
b.digitalWrite("USR3", b.HIGH);
```