



BLUECREATION BC188 LOW POWER WIFI MODULE

VERSION 1.1

REF: BC188-GENPRES-006



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BC188: General Specifications



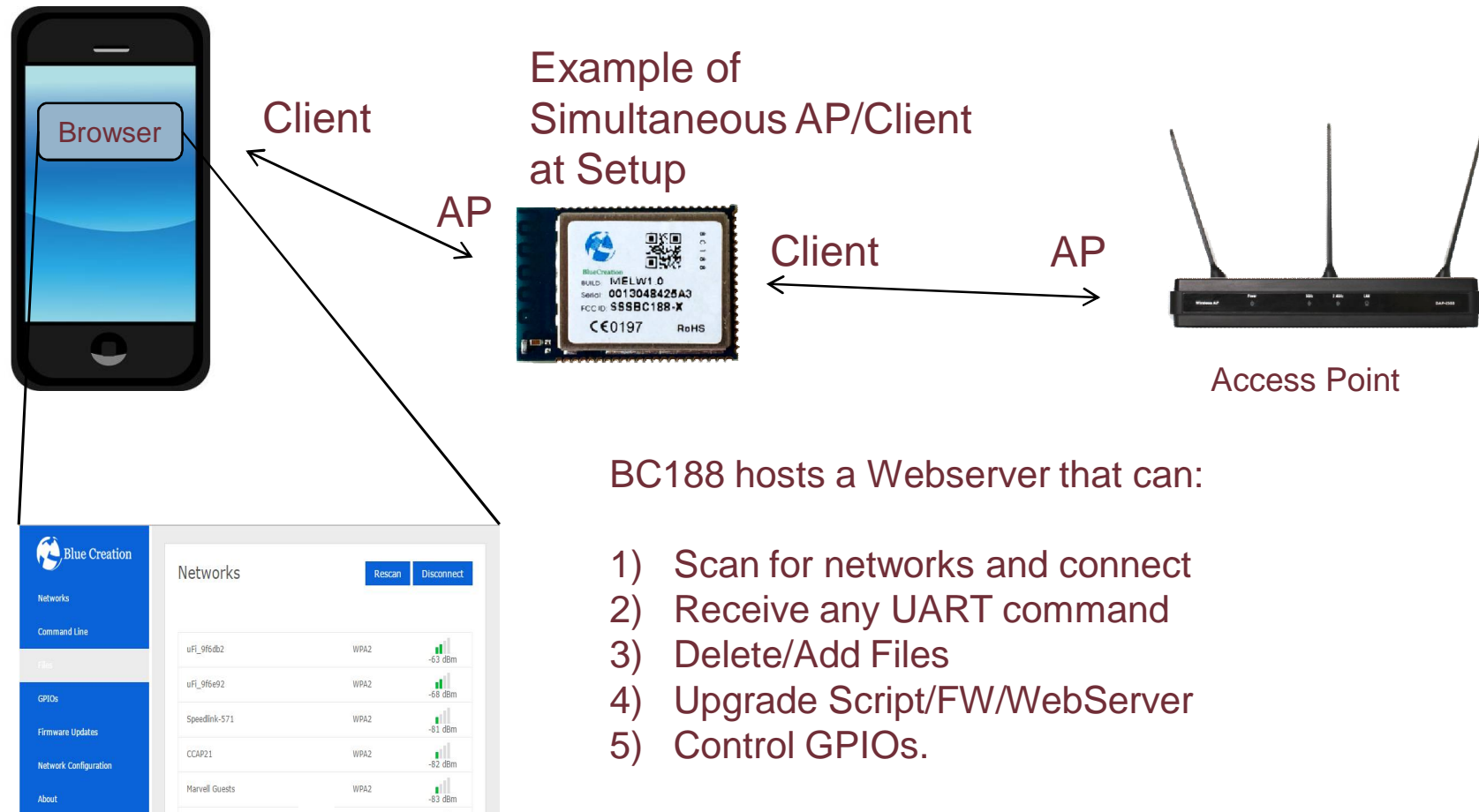
- Wi-Fi module with Microcontroller, 802 b,g,n,d,e,h,i,k,r,w
- 200Mhz Cortex M4 , 512kB SRAM, 128kB SROM
- SSL, WEP 64, WEP 128 (WPA), AES-CCMP (WPA2), WAPI
- Simultaneous Access Point and Client
- IPv6 TCP/IP Stack, HTTP Server and File System
- Easy Customisation and Standalone Operation
- MQTT, Apple HomeKit and Cloud Connectivity
- Secure Firmware Upgrade Over the Air
- Integrated T/R Switch, LNA, PA, Antenna, Crystal, Flash
- Small form factor (22mm x 15.5mm x 1.5mm)
- FCC, IC Certified, Industrial Temperature

→ *Flexible, Powerful, Fully Integrated Solution*



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BC188: Easy to Set-Up





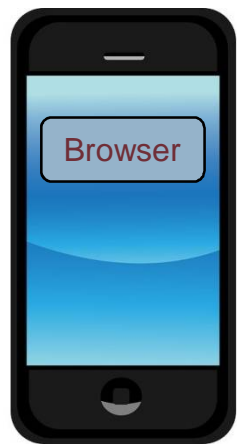
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BC188: Easy to Control/Configure

Option1:
From HOST via UART



Option2:
Locally via Wi-Fi

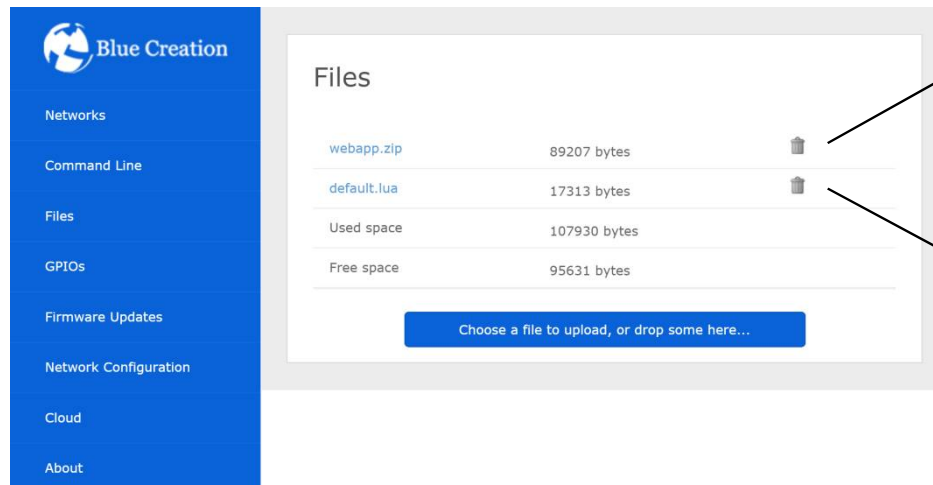


Option3:
Remote via the Cloud
(Cloud Connection)

BC188: Customisation



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The sample Hosted website on BC188 is available in source code over the file system. Users can build their own website or customise it as needed

BC188 implements an easy to use scripting language. Users can upload their own script to the BC188 for Standalone or Custom operation

BC188: Cloud Offering



Web browser control
-Configuration
-Monitoring of interfaces
-Triggering actions

Sample App
-Configuration
-Monitoring of interfaces
-Triggering actions

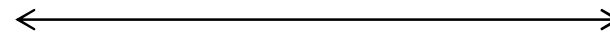
Code available to build your own server on www.bluecreation.com



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BC188: Home Kit

Custom build only available to Apple MFI licensees. Customisation possible for different services and integration with Siri. Check <https://developer.apple.com/programs/mfi/> for more information.



Ability to Pair and
Send /Receive
Messages



Siri

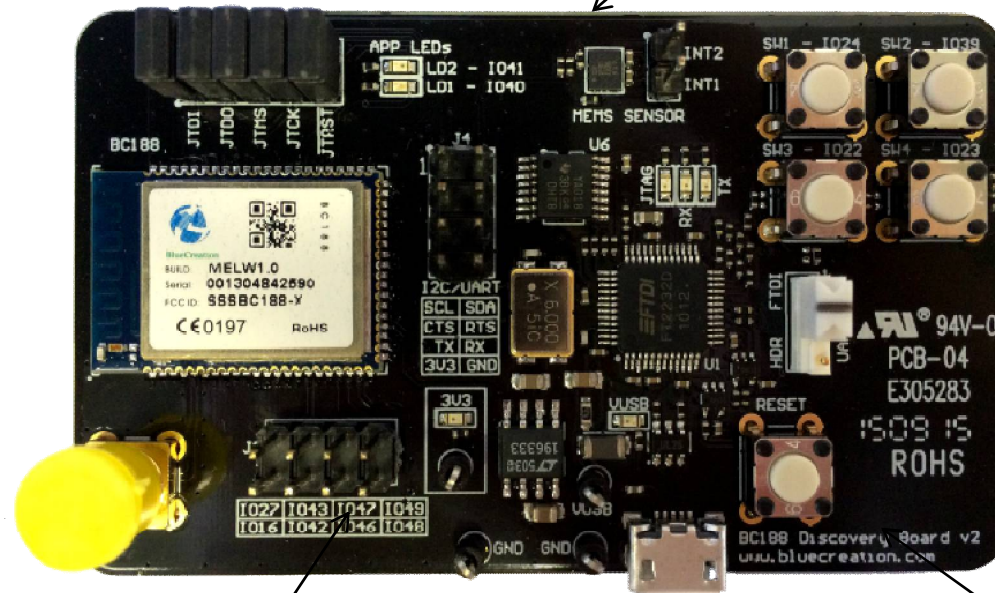


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BC188: Get Started with BC188 DISKIT

LEDs can be controlled by the Cloud

Temperature Sensor and Accelerometer can be read from Cloud



PIOs to Control and be monitored by the Cloud

Antenna

Pin-out available to connect external devices for prototyping

Connect from a PC and send and receive UART commands. The USB also powers the board

Reset Button



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BC188: Tools Available

- Flashing: The BC188 with Melody can be upgraded over the Air but also can be Flashed using the UART port. User Flasher and Production Flashing/Calibration available
- Cloud Solution and App: The BC188 BlueCreation Server Code is available to set-up your own Server. The Server can be accessed from a Browser. A sample App is also available to access the Cloud
- Customisation: Website and Script source code available to customise the module to User specific needs and Requirements.
- Documentation: BC188 manual, Datasheet, Exemple Schematics and Training Videos available online at www.bluecreation.com.

BC188: Applications Examples



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Wireless sensing



Health and Fitness



Industrial Control



Lighting Control



Environmental Monitoring



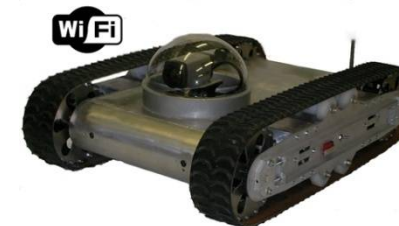
Appliance CONTROL



Home Automation



Gaming



Robots



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BC188: Summary

- Powerful Hardware Platform: The BC188 is fully integrated, certified and hosts a powerful architecture to suit all present and future needs.
- Complete SW Solution: The BC188 includes a local Webserver for easy set-up and configuration, a file system for storage and a rich set of UART commands.
- Easy Customisation: The BC188 flexible architecture allows users to easily customise the UART commands, Website, Cloud and/or write their own scripts on the BC188.
- Strong Support: BC188 is supported by a team of experienced engineers using a Support ticketing system. Replies are within 24h. Services and Customisation are available.

Thank You



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