

## **[Announcement of the direct conversion type DSP radio kit released]**

Co., Ltd. bit Trade Wan (Headquarters: Sagamihara, Kanagawa Prefecture) November 09, 2012,  
we launched the "direct conversion type DSP radio kit".

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### **[Product Summary]**

This electronic tool kit [direct conversion type DSP radio kit] does not require any personal computer, it is possible to check and operate the radio wave strength of radio in the stand-alone, is an electronic tool kit.

### **Features of this product]**

- Wave intensity display
- DSP high-quality processing circuit equipped with auto channel selector band / frequency display and electronic volume function equipped

, equipped with a radio module Si4735 RADIO MODULE.

It supports FM / AM band, clear sound quality in the direct conversion system.

The Si4735, is removed from the kit, it can be connected to any of the circuit. (It comes with a circuit diagram)

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(Product specification)

- Product Name: DSP radio kit

-method: direct conversion

Power supply: AAA batteries two (sold separately)

and reception band (FM): 76 ~ 90MHz

and reception band (AM): 522 ~ 1629KHz

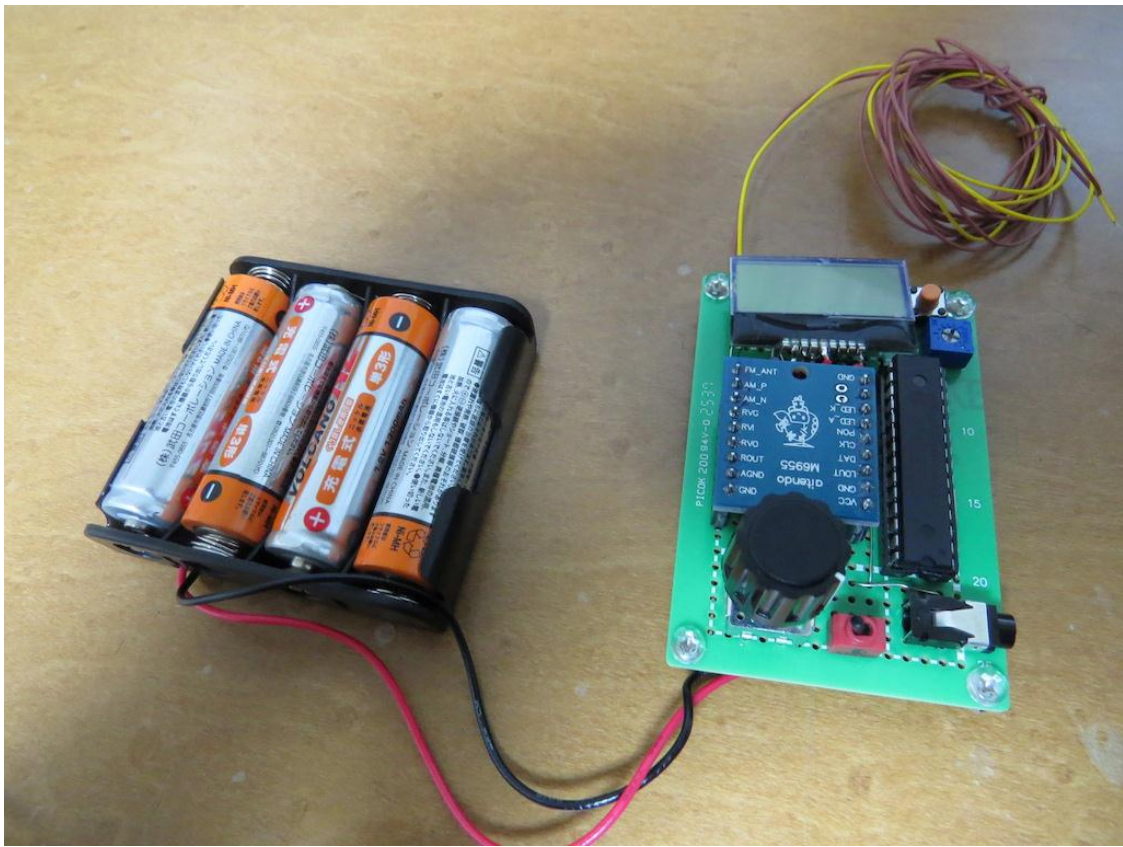
- Output: 3.5φ stereo mini-jack

-to-substrate dimensions: width 104mm / vertical width 74mm / thickness 1.5Mm

kit complete dimensions: width 107mm / vertical width 74mm / height 23mm (including protrusions)

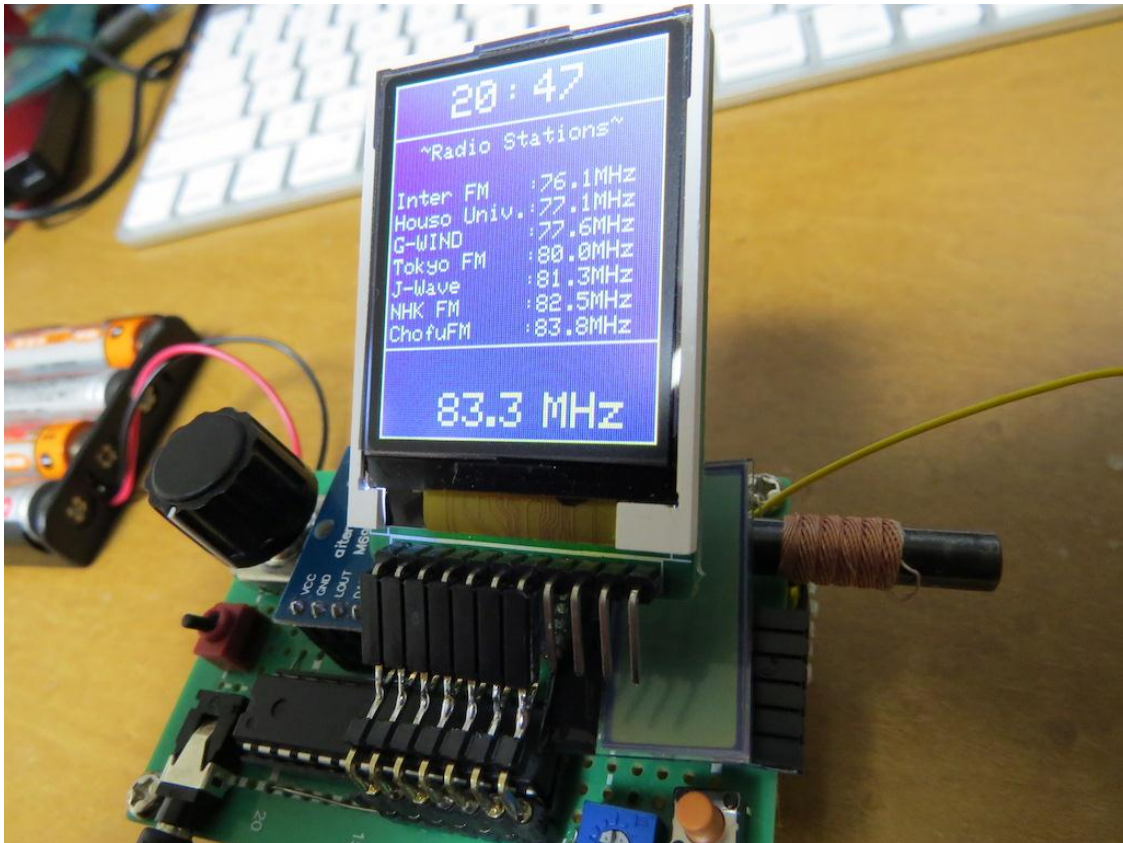
(the contents of)  
kit complete set (including Si4735)  
manual

But it is already introduce the DSP radio to Sessaku source



Well, it a little lacking in impact in so that I is either level. Here in one shot

I tried to put a full-color liquid crystal



It is well see 1.8 inches LCD of SPI. I bought in the Amazon.

SPI Why signal line is also less, radio was led as it is because it does not only using I2C and several of interrupt for a line made already. . Street in the image, was newly put the I2C of RTC (DS1307) for the time display.

In, but is characterized by

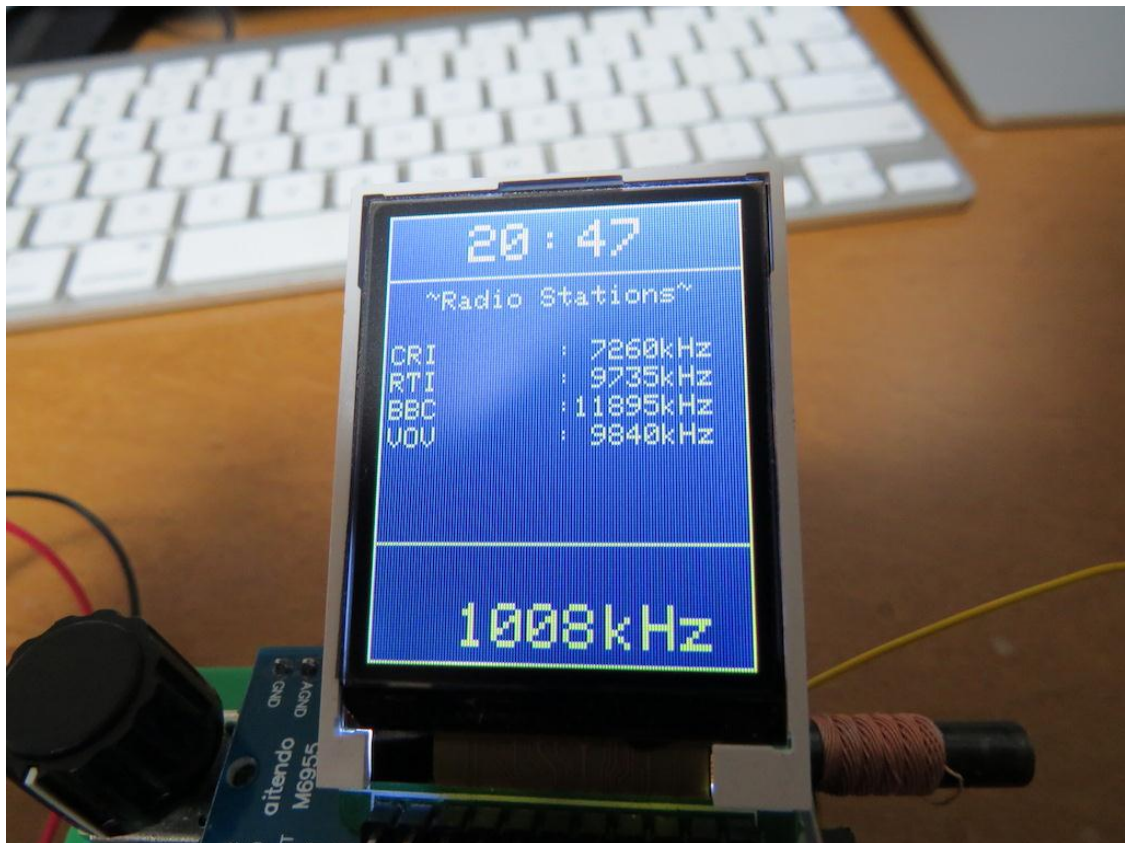
- (1) the time comes!
- (2) out of the receiving frequency
- (3) receivable broadcast station list per hour for short is updated displayed!

(3) It is quite convenient for. Not taking the data from the net, it offers a broadcasting station of 24 hours in the header file (mainly Japanese broadcast) table. It is not to be a problem until now, but did not know, SRAM is only 1kB of ATmega (Arduino) (328 is 2kB), and simply variable display this kind of text information

**Reproducibility with no suspicious movement**

(Not an error comes out, the unpredictable behavior)

To the, it is fed into the flash on all broadcasting station data is PROGMEM.



Bar antenna is out of the Yokotcho because it significantly performance degradation and put under the DSP radio module (in a state, such as placing the antenna in the shield).

(separate purchase)

- FM antenna (it is also possible that the antenna earphones)
- AAA batteries two (sold separately)

(Suggested retail price)

\ 5,480- [JAN code] 4560196900318

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### **[Handling store]**

- bit Trade One direct sales site
- Akihabara March Hare like
- Osaka Nihonbashi silicon House Kyoritsu like
- Akihabara Suzusho like
- Akihabara Wakamatsu trade like

(dealer at any time recruiting)

**[Development Manufacturer**

Co., Ltd. bit trade one  
Sagamihara City, Kanagawa Prefecture, Chuo-ku, Sagamihara 8-  
chome, 10-18 friend Bill 3F

**[sell cooperation]**

absolute Ltd. Isehara, Kanagawa Prefecture Kamikasuya 839-1

**[supervision and technical cooperation]**

Yasuyuki Onodera

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**[Related Sites]**

**[DSP radio kit press release]**

<http://bit-trade-one.co.jp/BTOpicture/PreRelease/pre023-DR.html>

**[DSP radio kit special website]**

<http://bit-trade-one.co.jp/BTOpicture/Products/007-RK/>

**[Assembly Desk within the DSP radio kit community page]**

[http://a-desk.jp/modules  
/forum\\_hobby/index.php?cat\\_id=9](http://a-desk.jp/modules/forum_hobby/index.php?cat_id=9)

**[manual]**

[http://a-  
desk.jp/project/hobby/DSP\\_radio/dsp\\_radio\\_manual.pdf](http://a-desk.jp/project/hobby/DSP_radio/dsp_radio_manual.pdf)

**[our direct sales site]**

[http://btos.jp/index.php?main\\_page = product\\_info &  
products\\_id = 88](http://btos.jp/index.php?main_page=product_info&products_id=88)

**[open source hardware license terms]**

[Http://A-  
desk.jp/modules/forum\\_youbou/index.php?Cat\\_id=4](http://A-desk.jp/modules/forum_youbou/index.php?Cat_id=4)