

CQHAM.RU



Мини-лаборатория  
радиолюбителя OSA10

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Forum TECHNICAL FORUMS ON CQHAM.RU Modification of radio stations

Quansheng uv-k5 on the range 23cm 1297 MHz

If this is your first visit, check out the forum help. You must be registered to post messages. To view messages, select a forum.

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Subject: Quansheng uv-k5 on the range 23cm 1297 MHz Showing 41 to 50 of 57  
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16.01.2025, 08:07

#41

R1AIT

Registration :  
18.06.2008  
Address : Saint  
Petersburg  
Messages : 2,489



It makes sense to ask in the relevant topics. For example here:  
[https://t.me/uv\\_k5](https://t.me/uv_k5)

R1AIT / OH7FUV ex RA1AIT, UB5LQJ, UB5-077-1242

#42

Hello,

The receiver started working immediately after treatment according to the above recipe.

The special operation continues...

*Last edited by LZ3HD; 01/16/2025 at 11:45 PM .*

Thanks from [XENOMORPH](#)

17.01.2025, 11:00

#43

**uk8adi** ◉



Registration :  
31.01.2009  
Address : Tashkent  
Messages : 849  
Call sign : UK8ADI

**VI1962**

You have already been answered:

💬 Message from **Serg** ➡

*But I'll give a short answer - a separate WFM  
broadcast receiver works in F+0.  
And having dialed the frequency in the normal mode  
- you try to listen to broadcasts with a receiver for  
NFM (narrow band for voice radio communication).*

And this, yes -

💬 Message from **VI1962** ➡

*the limitation is built into the hardware*

, as the "heart" of the radio station, the main transceiver chip is designed for use in Walkie-Talkie with narrowband FM, like the previous 1846 chip.

---

73! UK8ADI Sergey

18.01.2025, 14:57

#44

**R4ABT** ◉



Registration :  
25.08.2014  
Address : Volzhsky  
Volgograd region  
Messages : 174  
Call sign : R4ABT



**LZ3HD** , please take a photo of the highest resolution of the modified board, because I stopped my rework project, it's lying there waiting...  
if there is no way to save it here on the forum, then provide a link

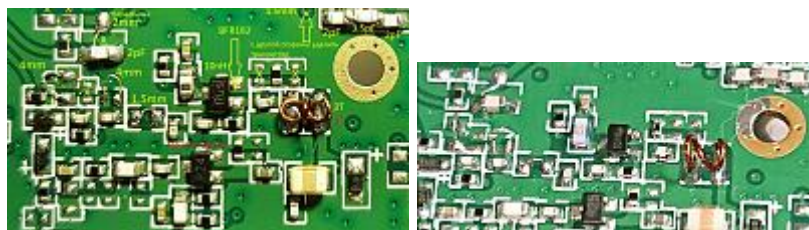
18.01.2025, 22:43

#45

**LZ3HD** 

Registration :  
13.04.2015  
Messages : 20

Since I couldn't get the transmitter to work, I had to ask my friend LZ5HP for help. After several hours of fighting with the darkness, I managed to get 0.8 - 1.2 W at the output, but there are some nuances that require continuing the party. At this stage, the board is in a very shaggy state and is not very 'photogenic'. When everything is ready, I will take photos.  
Here is another capacitor that slightly improves the sensitivity of the receiver (replace with 1.5p or remove).



Thanks from [R4ABT](#) , [Solovey](#)

08.02.2025, 23:42

#46

**LZ3HD** ◉

Registration :  
13.04.2015  
Messages : 20

Hello,

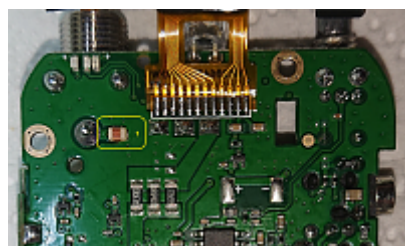
I did not do everything described below alone. LZ5HP - Khristian participated in the special operation, he helped a lot to move the matter in the right direction.

I would like to express special gratitude to the author of this topic for the development and for sharing it.

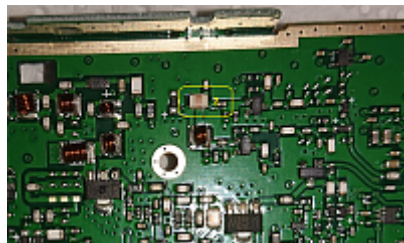
We got a slightly different version of hardware processing, where the filtering of mobile networks in the receiver was improved and, accordingly, a different transistor matching, a different output filter and RX - TX switching circuit were used in the transmitter, which led to an increase in output power and the absence of harmonics. The transmitter power is 1.48 W at 8 V power supply, the receiver noise suppressor is triggered at -122, -123 dbm. Measurements were carried out with tinySA ULTRA with an external attenuator of 40 db.

download: <https://disk.yandex.ru/i/P4bgQ2KHIiCpgQ>

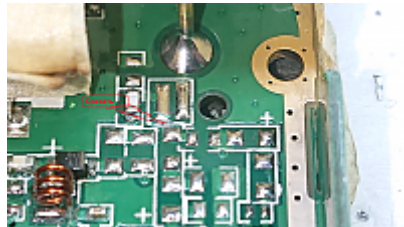
To increase the power (more than 1W), you need to raise the gate voltage of the driver transistor, while the drain current should not exceed 400-450mA (max. transistor current 0.5A). The operation is very dangerous, since the current can sharply go up and kill the transistor. In the photo, this is a '60k' resistor, I put 150k on top of the existing 100k. The drain current turned out to be 460mA with a supply of 8.4V. You can leave the BAR64 diodes and the BFR360 transistor, the original ones are also suitable.

download: <https://disk.yandex.ru/i/ktvO4MdAWnDtRg>download: [https://disk.yandex.ru/i/L7BpV5\\_XfteahA](https://disk.yandex.ru/i/L7BpV5_XfteahA)

Unsolder coil '1' and put coil '2' in its place (see below)



download: <https://disk.yandex.ru/i/fqr8DJ0itcgsuQ>



download: <https://disk.yandex.ru/i/6iZYFPjwkdL4Zg>

Here you need to cut the bus to implement the new RX - TX switching scheme.



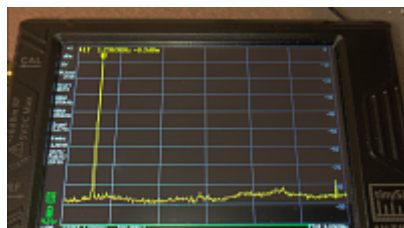
download: <https://disk.yandex.ru/i/qeNZW0Erw-wItg>

Finished product top view.



download: <https://disk.yandex.ru/i/QnRQFZ2q1UmSQw>

Finished product bottom view.



download: [https://disk.yandex.ru/i/tVAPloun\\_6-tuw](https://disk.yandex.ru/i/tVAPloun_6-tuw)

Output power 31.7dbm (-8.3dbm + Attenuator 40db), 8 Volts. No harmonics are observed in the range from 1GHz to 4GHz.



download: [https://disk.yandex.ru/i/mHP0\\_Je9HAGmuQ](https://disk.yandex.ru/i/mHP0_Je9HAGmuQ)

Noise suppressor opens at -122, -123 dbm.

Thanks from <a href="#">R4ABT</a> , <a href="#">RA4FHE</a> , <a href="#">uk8adi</a> , <a href="#">XENOMORPH</a> , <a href="#">Solovey</a>	

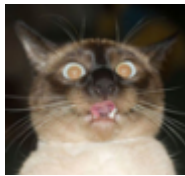
14.02.2025, 19:00		#47
<div>LZ3HD ◉</div> <div>Registration : 13.04.2015 Messages : 20</div>	<div>We make the process waste-free: (1/4 λ also showed good results )</div>	

Thanks from [R4ABT](#) , [RA4FHE](#)

25.02.2025, 18:27

#48

**RA4FHE** ◉



Registration :  
14.01.2014  
Address : Penza  
Messages : 573  
Call sign : RA4FHE

💬 Message from **LZ3HD** 📡

*We have come up with a slightly different version of iron processing, where filtration has been improved.*

Please tell me the internal diameter of the low-pass filter coils and the diameter of the wire.

25.02.2025, 19:06

#49

**LZ3HD** ◉

Registration :  
13.04.2015  
Messages : 20

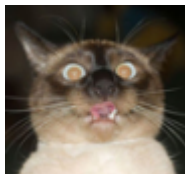
If you mean the transmitter output filter, then simply unsolder the factory coil, unwind the extra turns, clean the varnish and solder it back (internal diameter 1.5 mm, wire 0.36 mm).

Thanks from [RA4FHE](#)

25.02.2025, 19:20

#50

**RA4FHE** ◉



Registration :  
14.01.2014  
Address : Penza  
Messages : 573  
Call sign : RA4FHE

Thank you, I'll try.



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