

Moj prvi srednjevalovni
radijski sprejemnik
(1972)

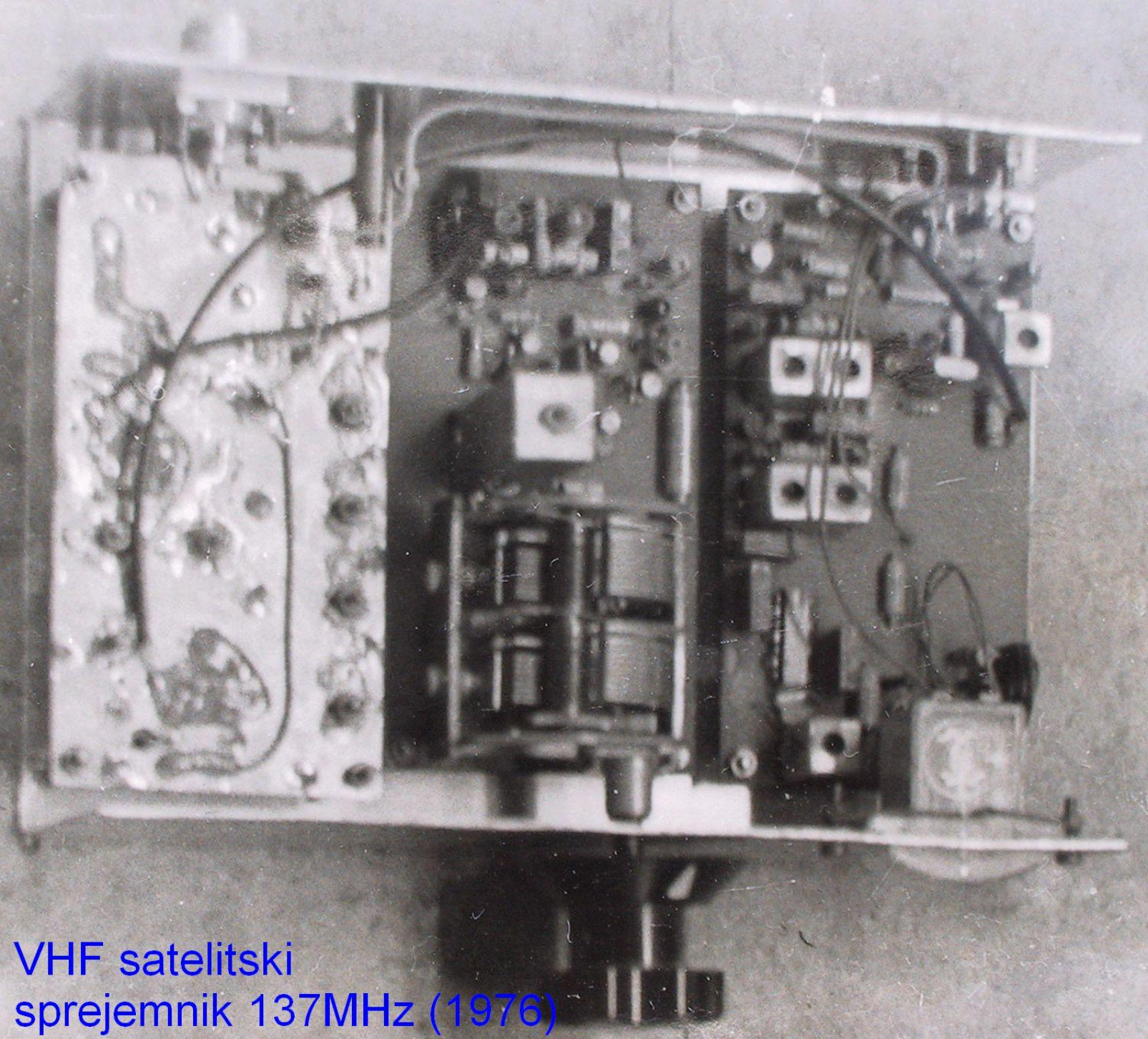


Moj prvi UKV
radijski sprejemnik
Moj prvi članek
Radioamater 1975



Walkie-talkie 144MHz 1W
domet cca 50km (1978)



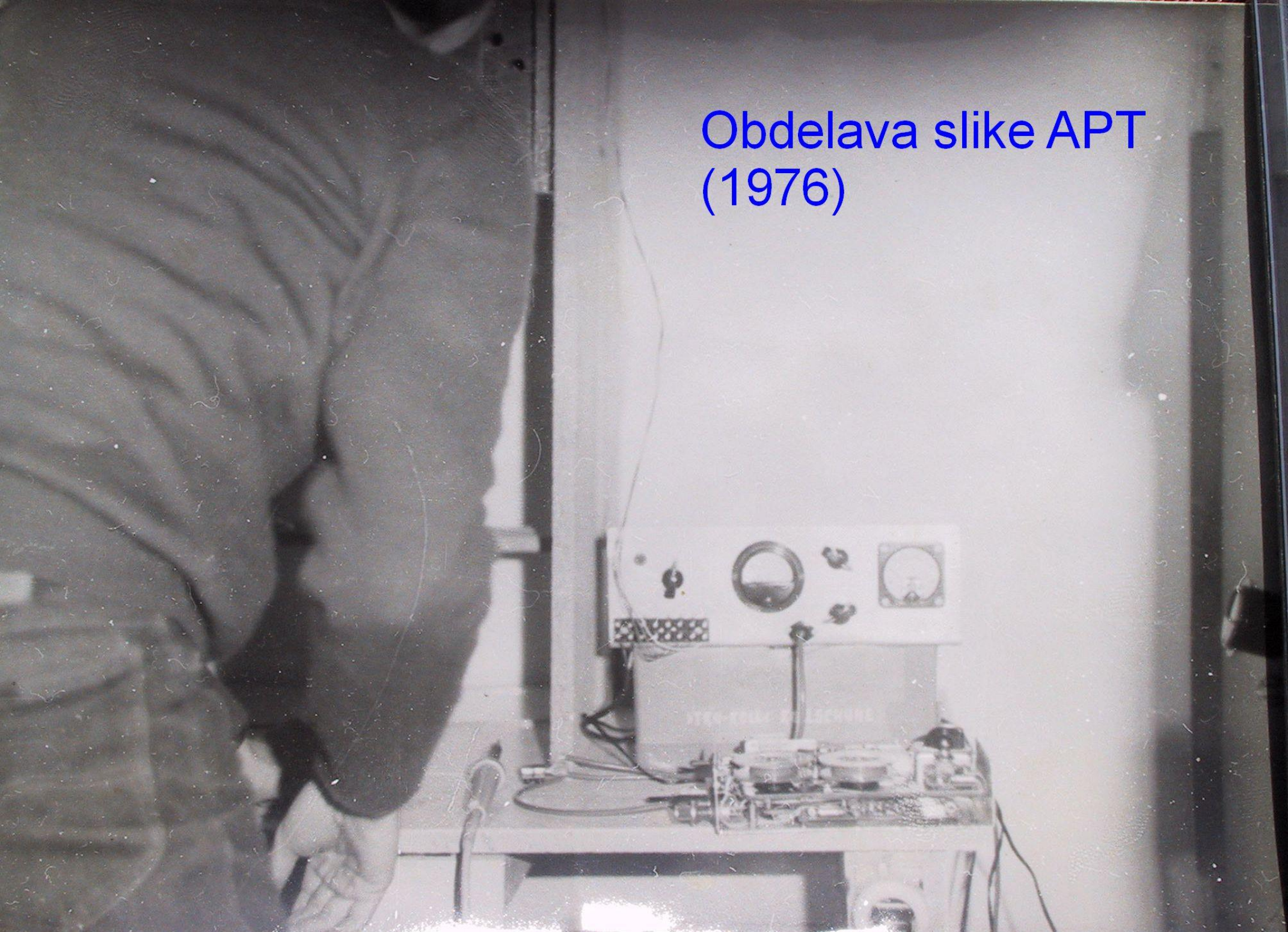


VHF satelitski
sprejemnik 137MHz (1976)

VHF satelitska
antena 137MHz (1977)

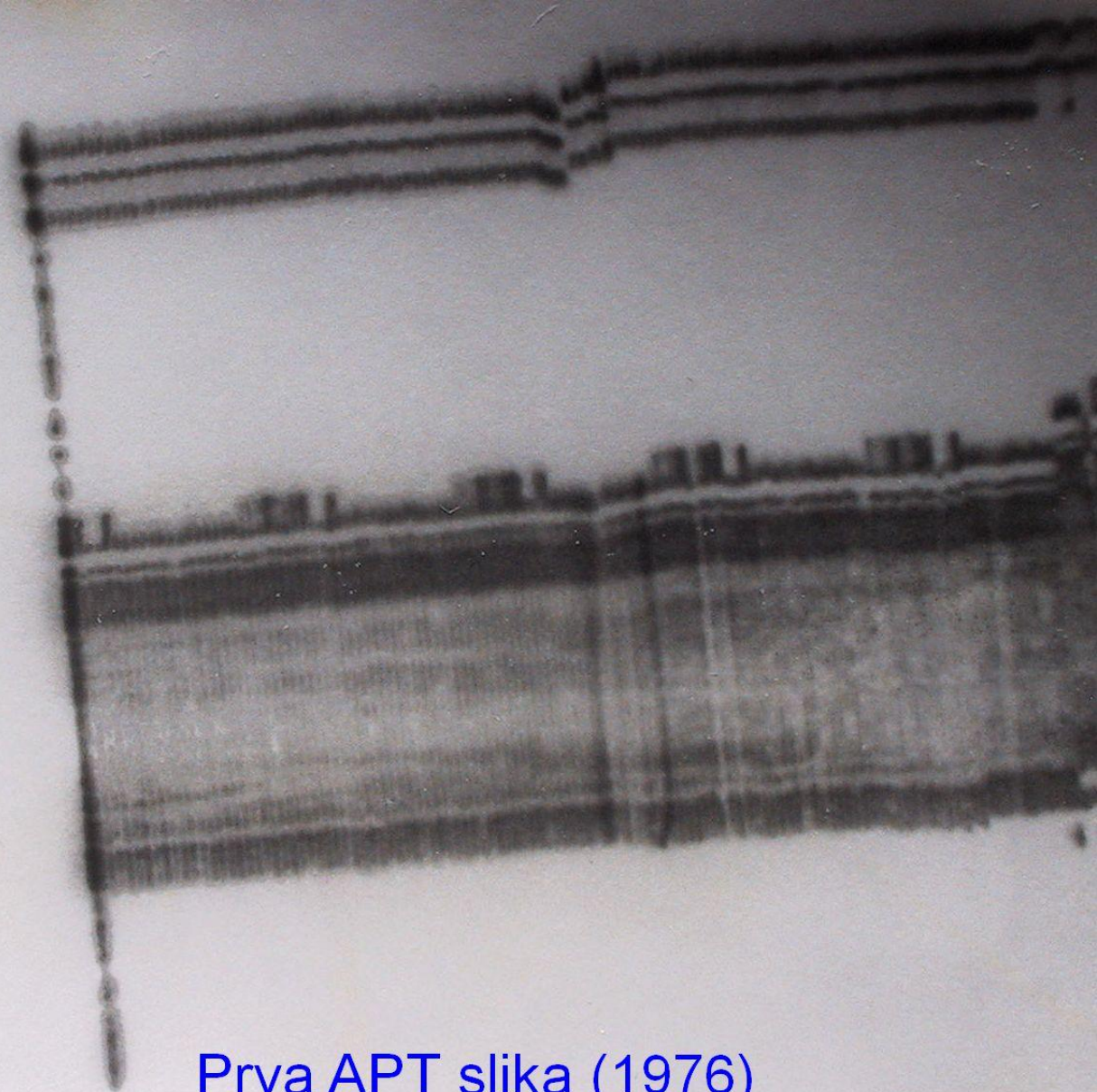


Obdelava slike APT
(1976)





Tiskalnik
slike APT
(1976)



Prva APT slika (1976)

Izboljšān APT (1978)





Razpoznaven APT (1978)

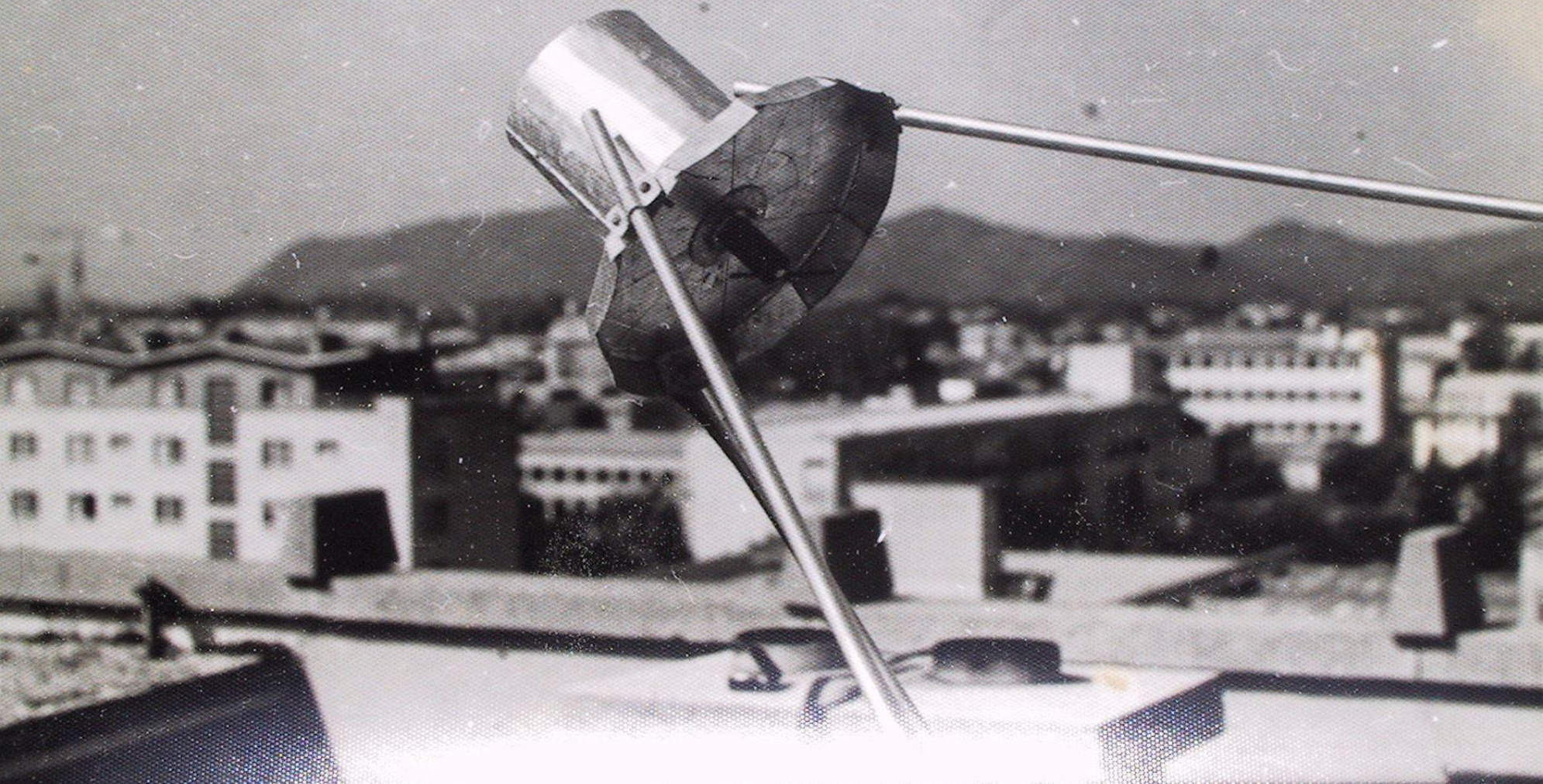
Sovjetski satelit
Meteor 1
(1978)

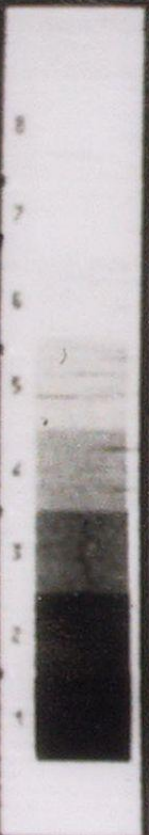
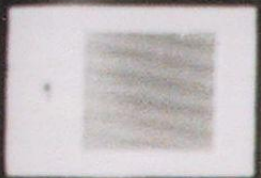
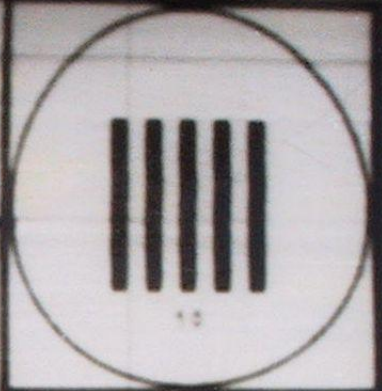


Zrcalo 2.4m za 1.7GHz
(1979)



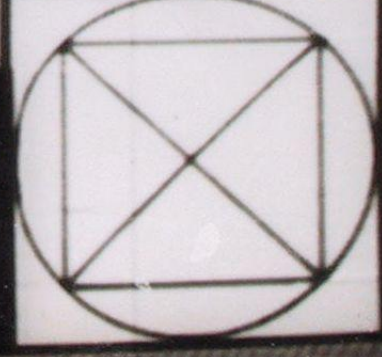
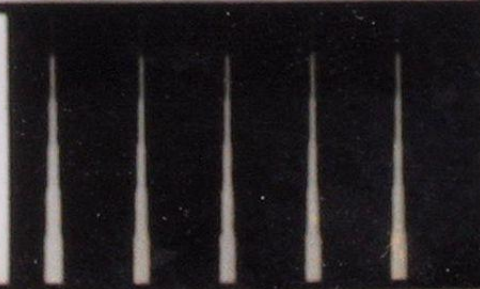
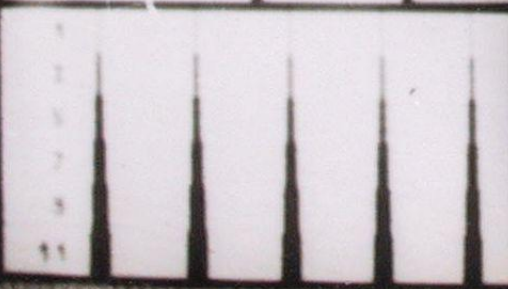
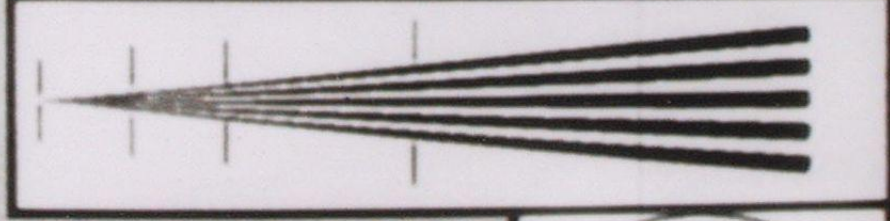
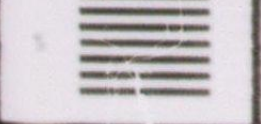
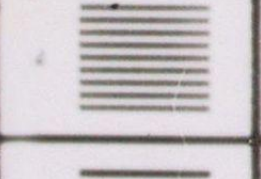
Žarilec za satelit Meteosat 1.7GHz (1979)





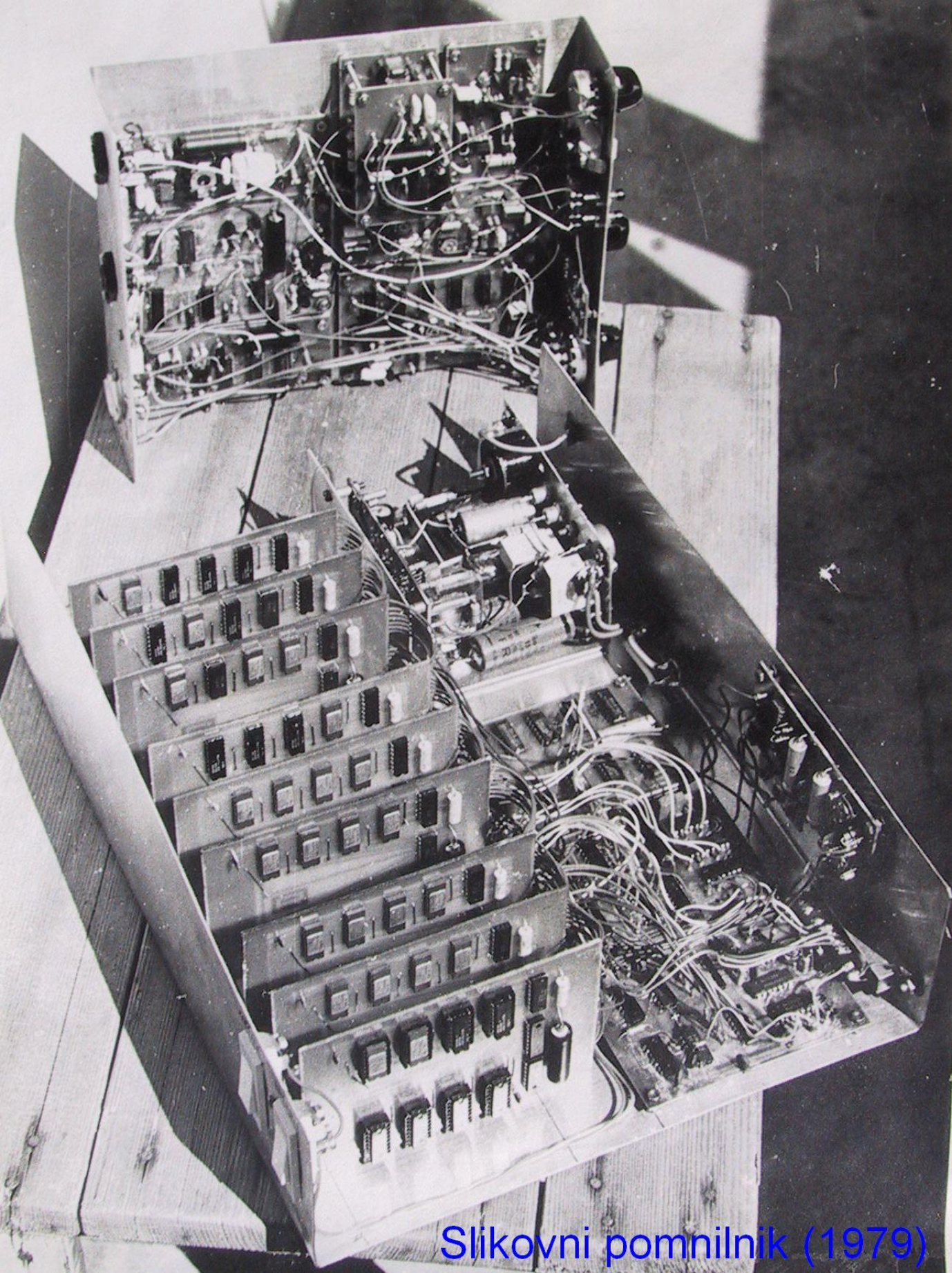
ABCDEFGHIJKLMN
 OPQRSTUVWXYZ
 ABCDEFGHIJKLMNO
 PQRSTUVWXYZ 1234567
 ABCDEFGHIJKLMNOPQR
 STUVWXYZ 1234567890 1234567
 ABCDEFGHIJKLMN O PQRSTU VWXYZ
 1234567890 ABCDEFGHIJKLMN

A
 E S A
 E

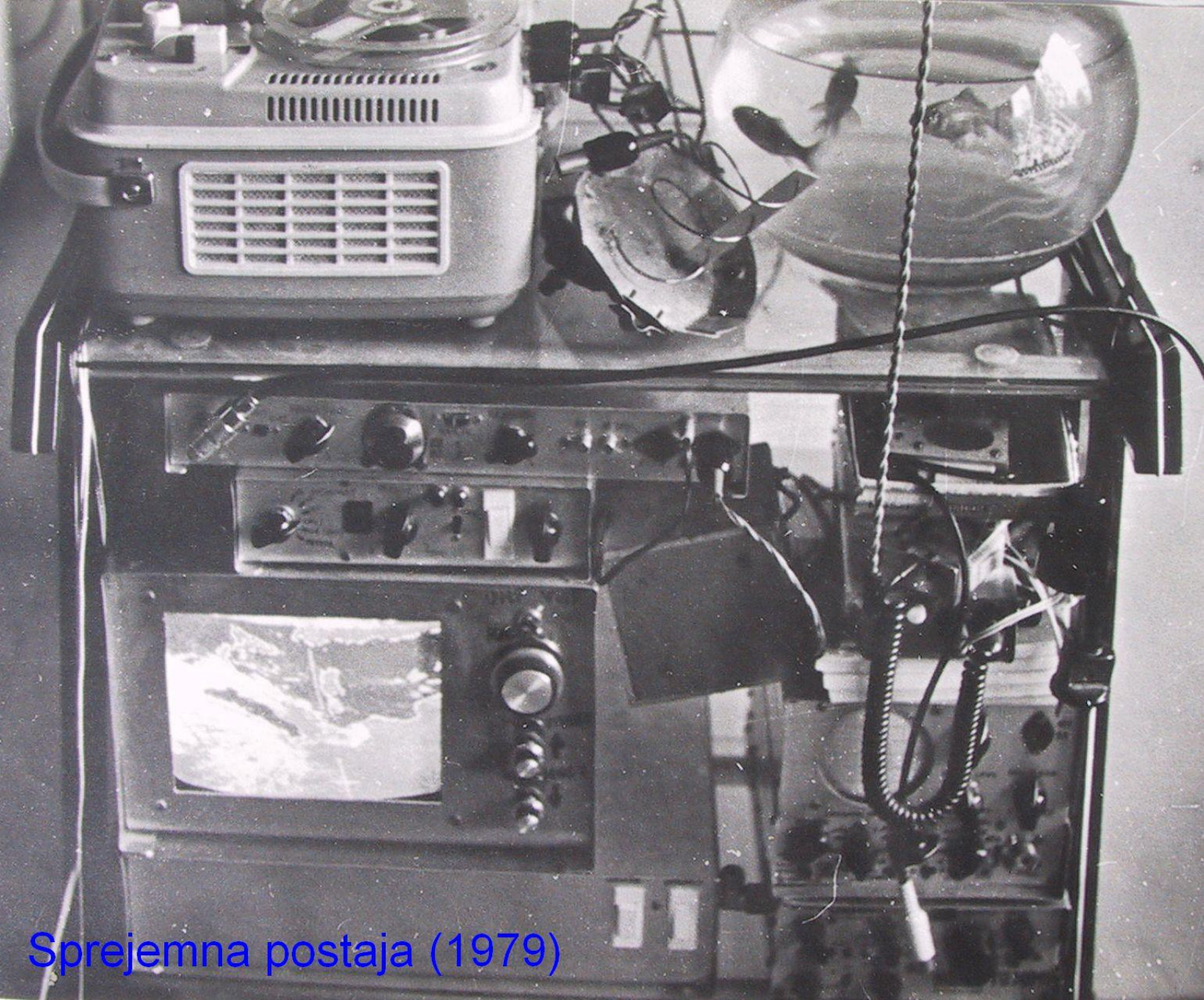






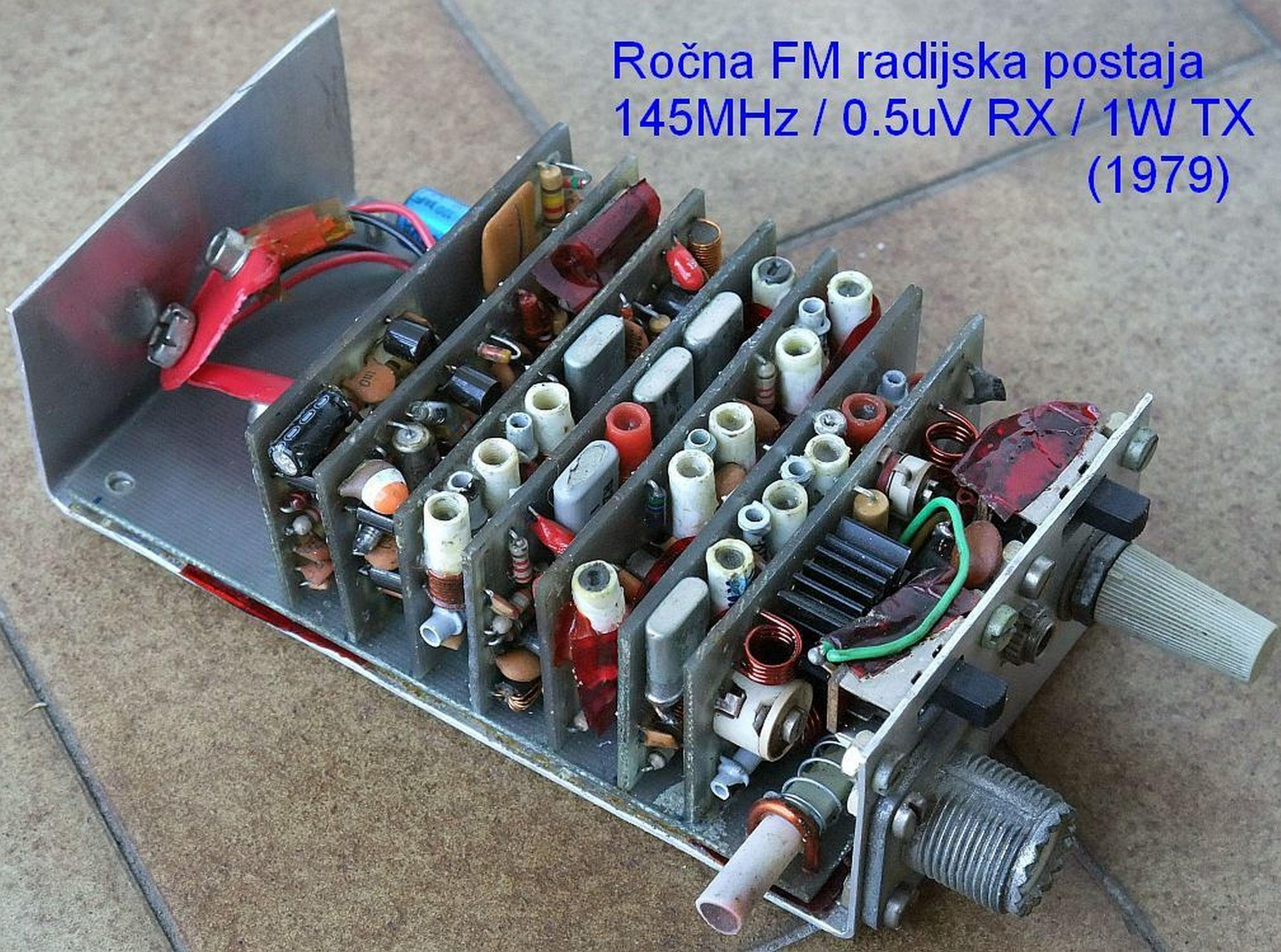


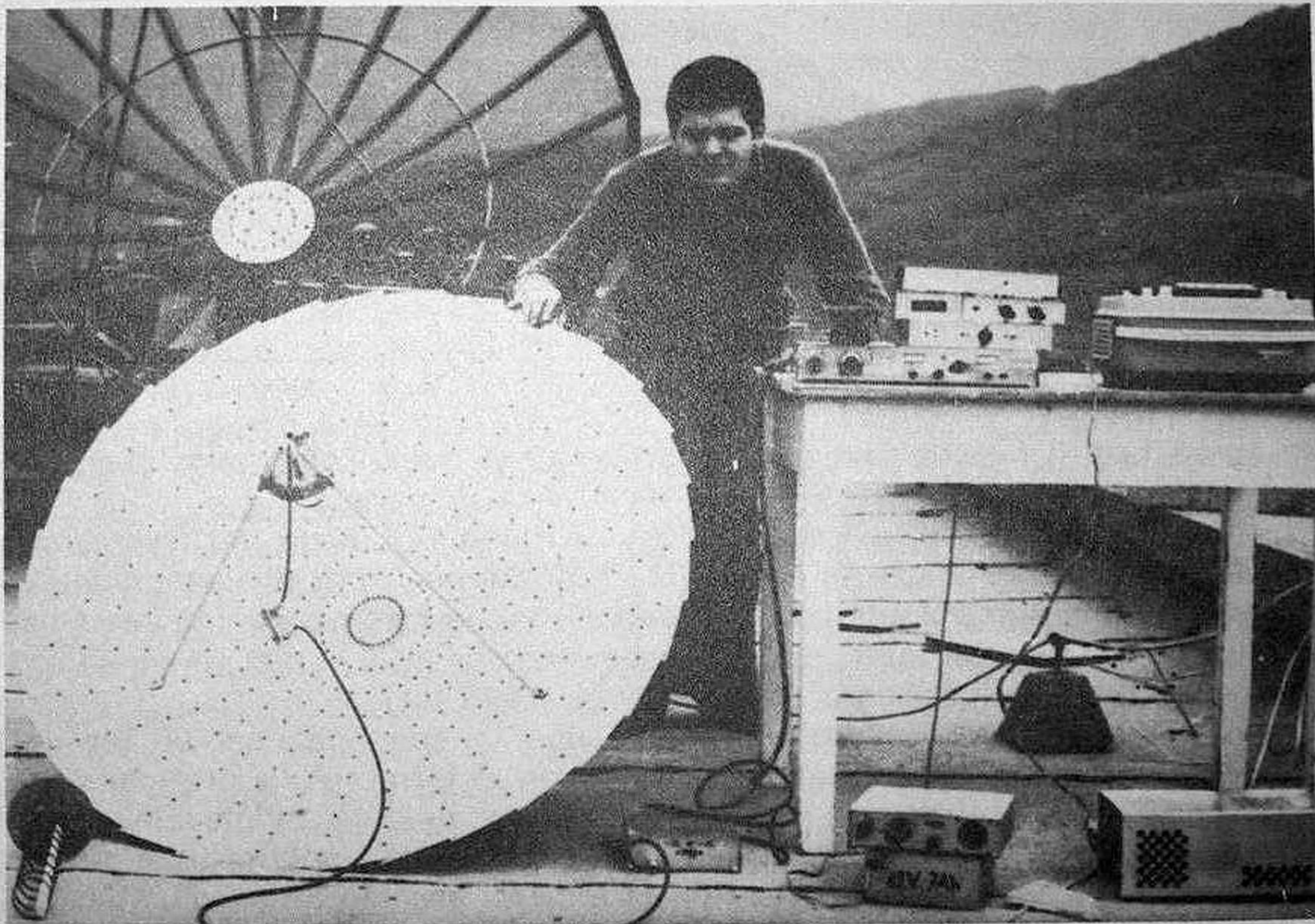
Slikovni pomnilnik (1979)



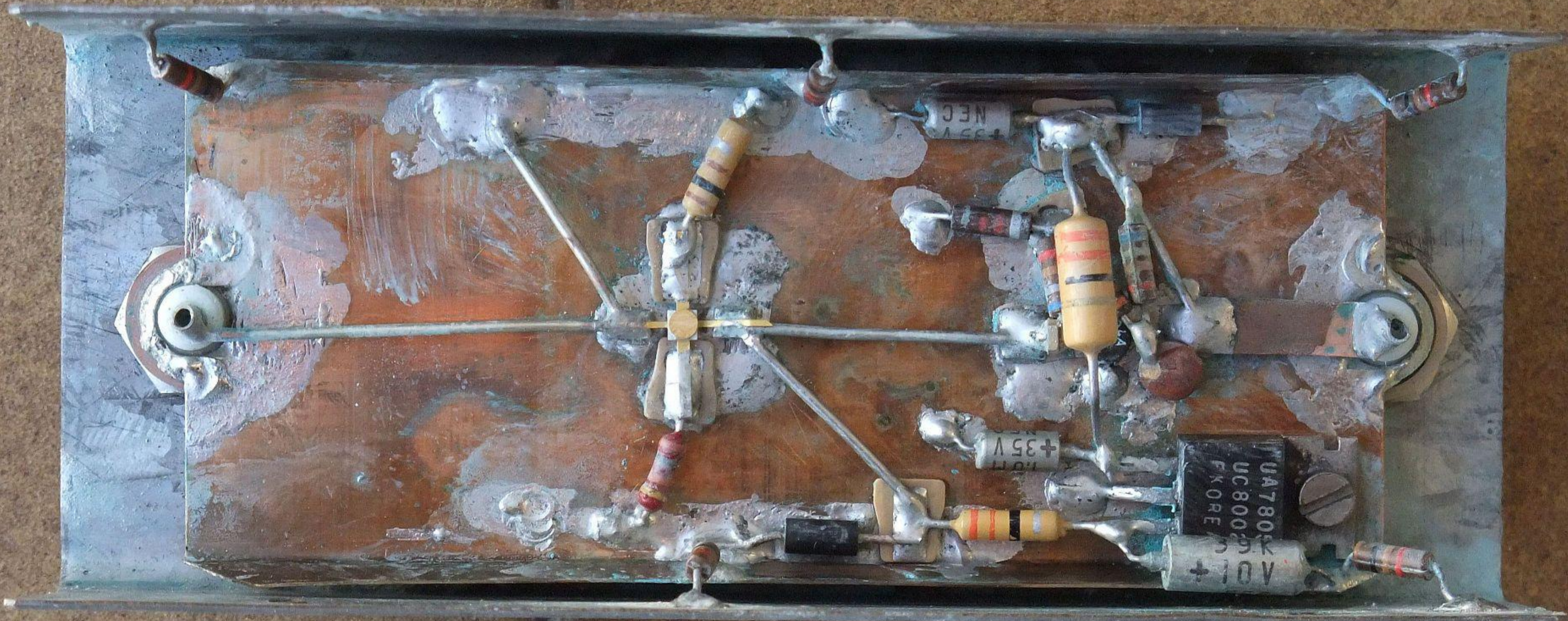
Sprejemna postaja (1979)

Ročna FM radijska postaja
145MHz / 0.5uV RX / 1W TX
(1979)

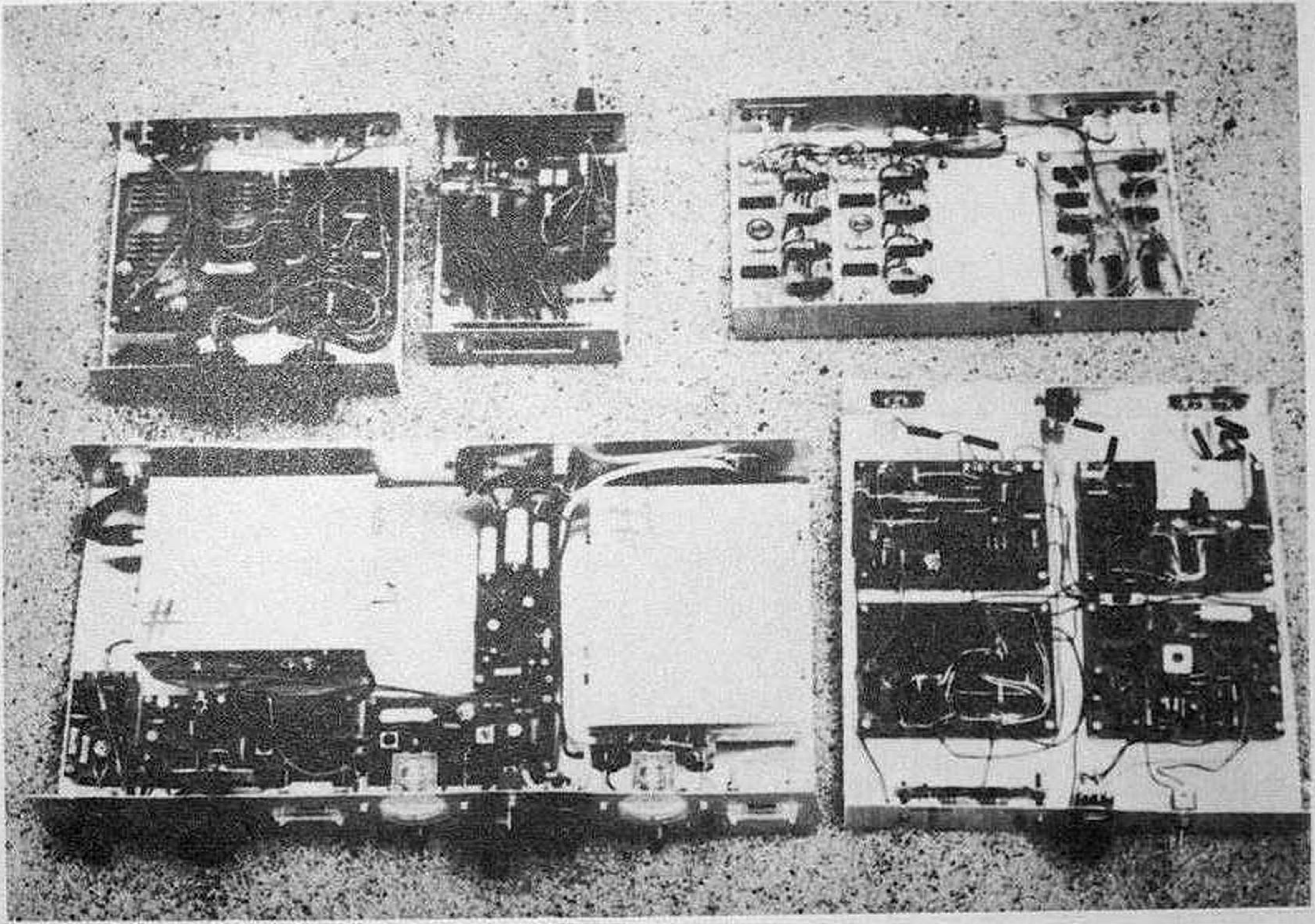




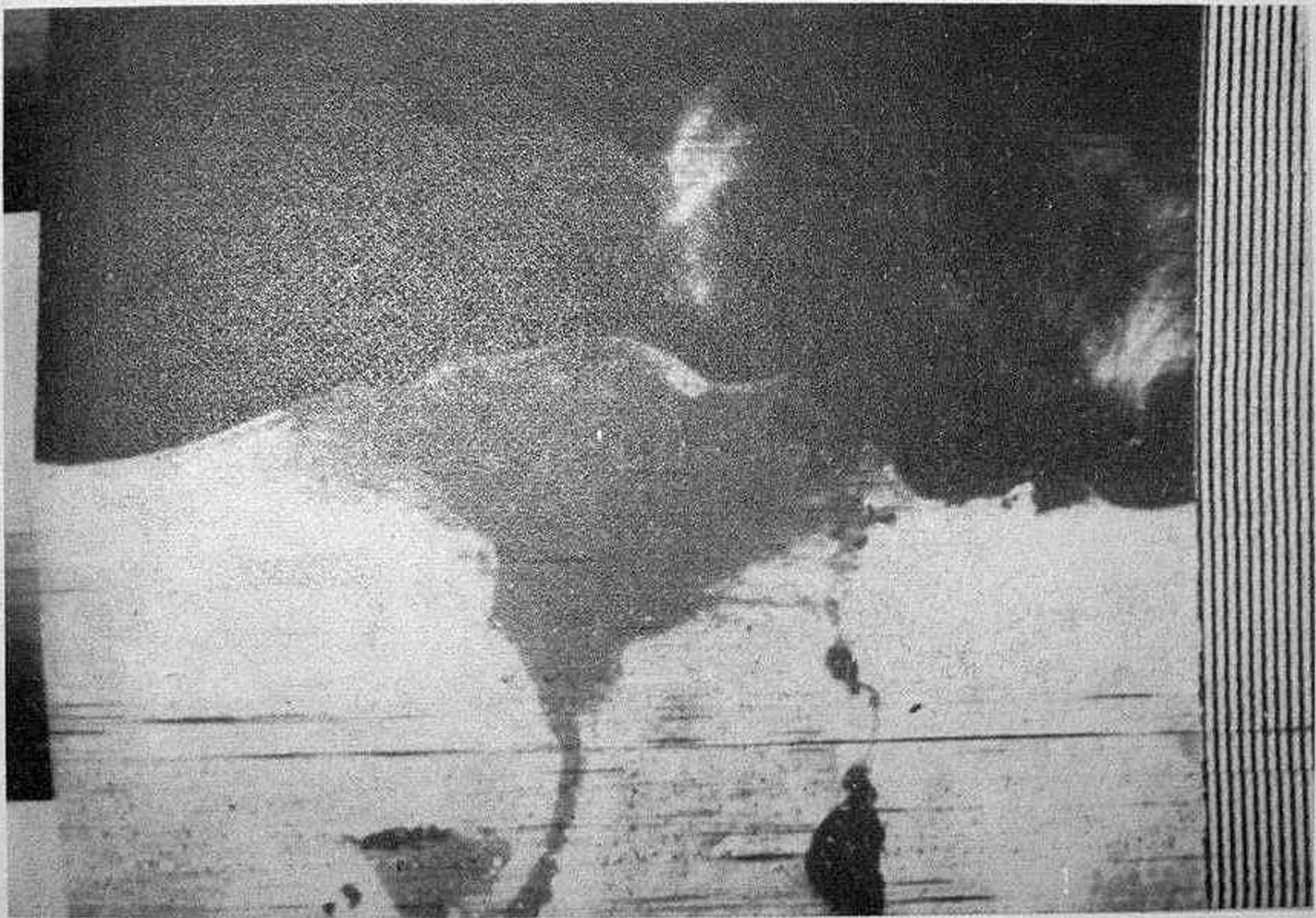
Sprejemnik NOAA HRPT (1981)



Nizkošumni ojačevalnik GaAsFET CFY11 (1981)

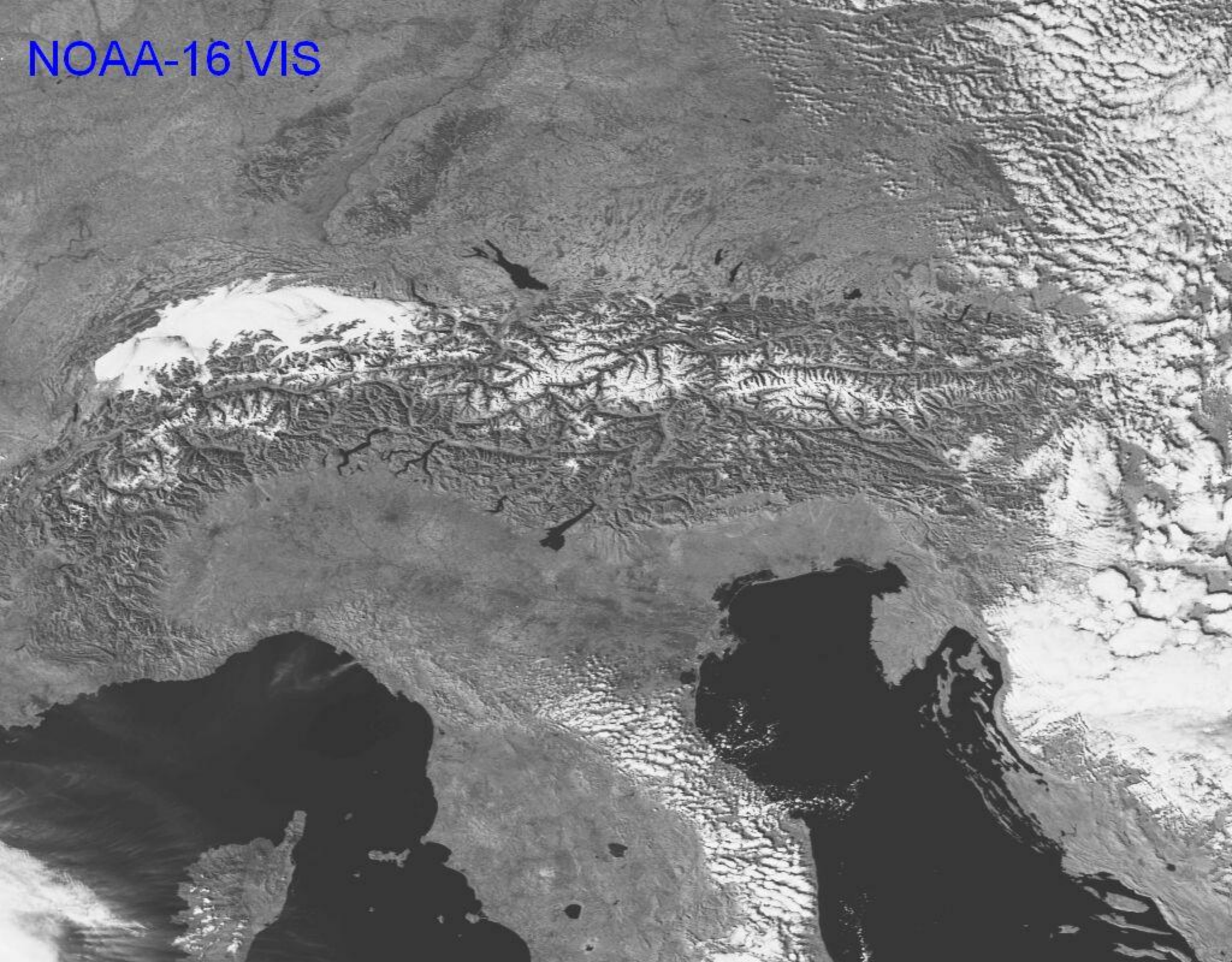


Elektronika HRPT sprejemnika (1981)

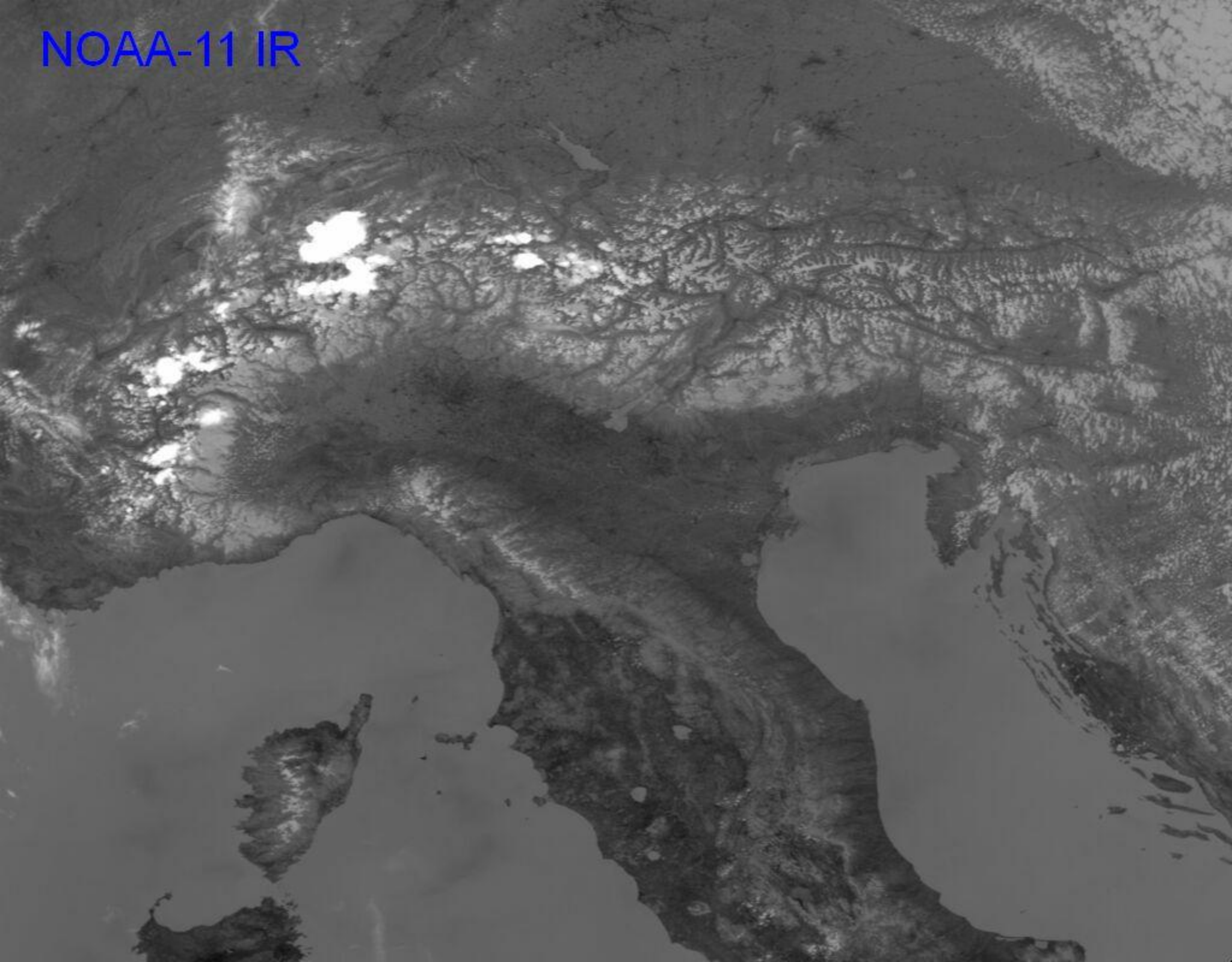


Prvi HRPT sprejem (1981)

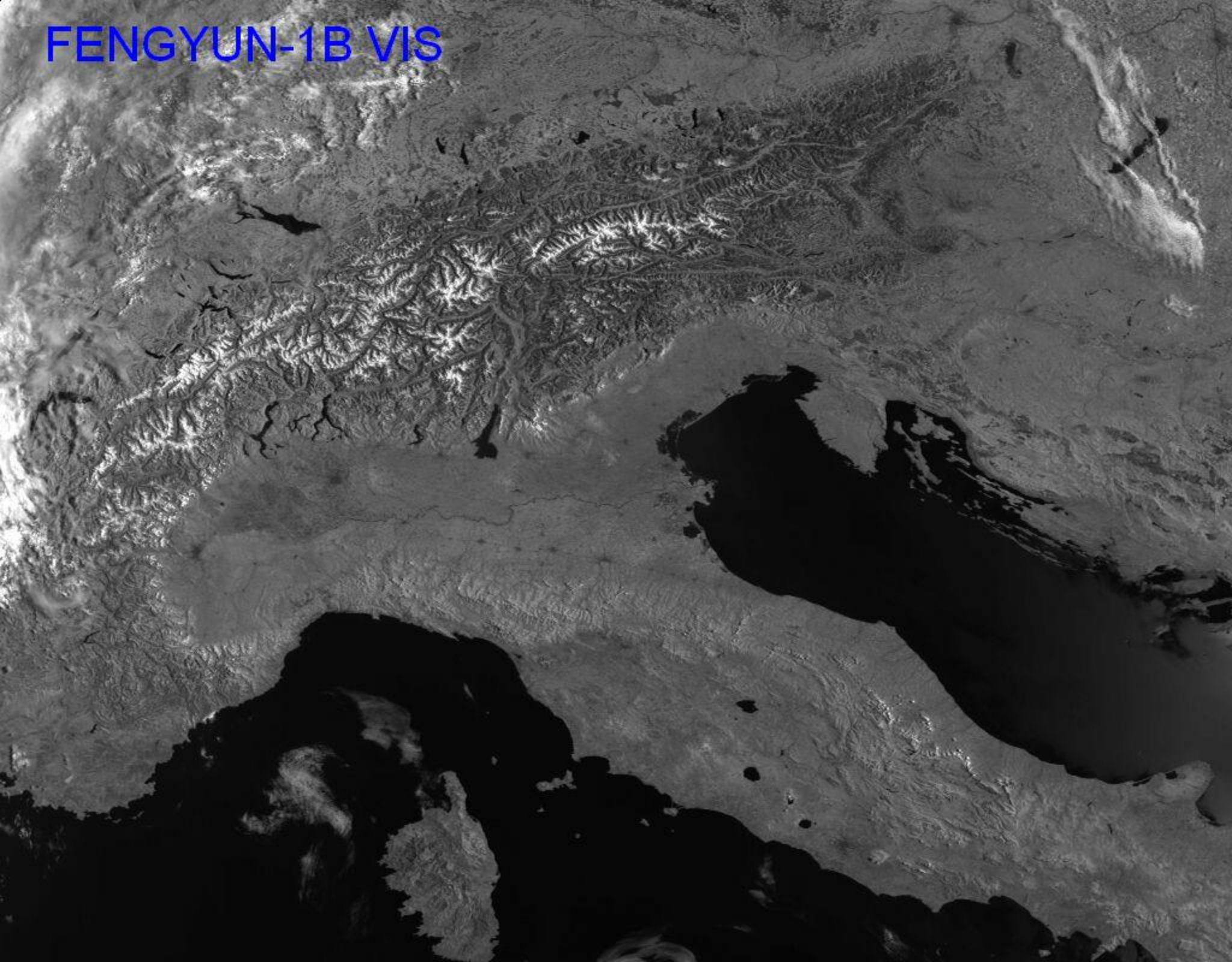
NOAA-16 VIS



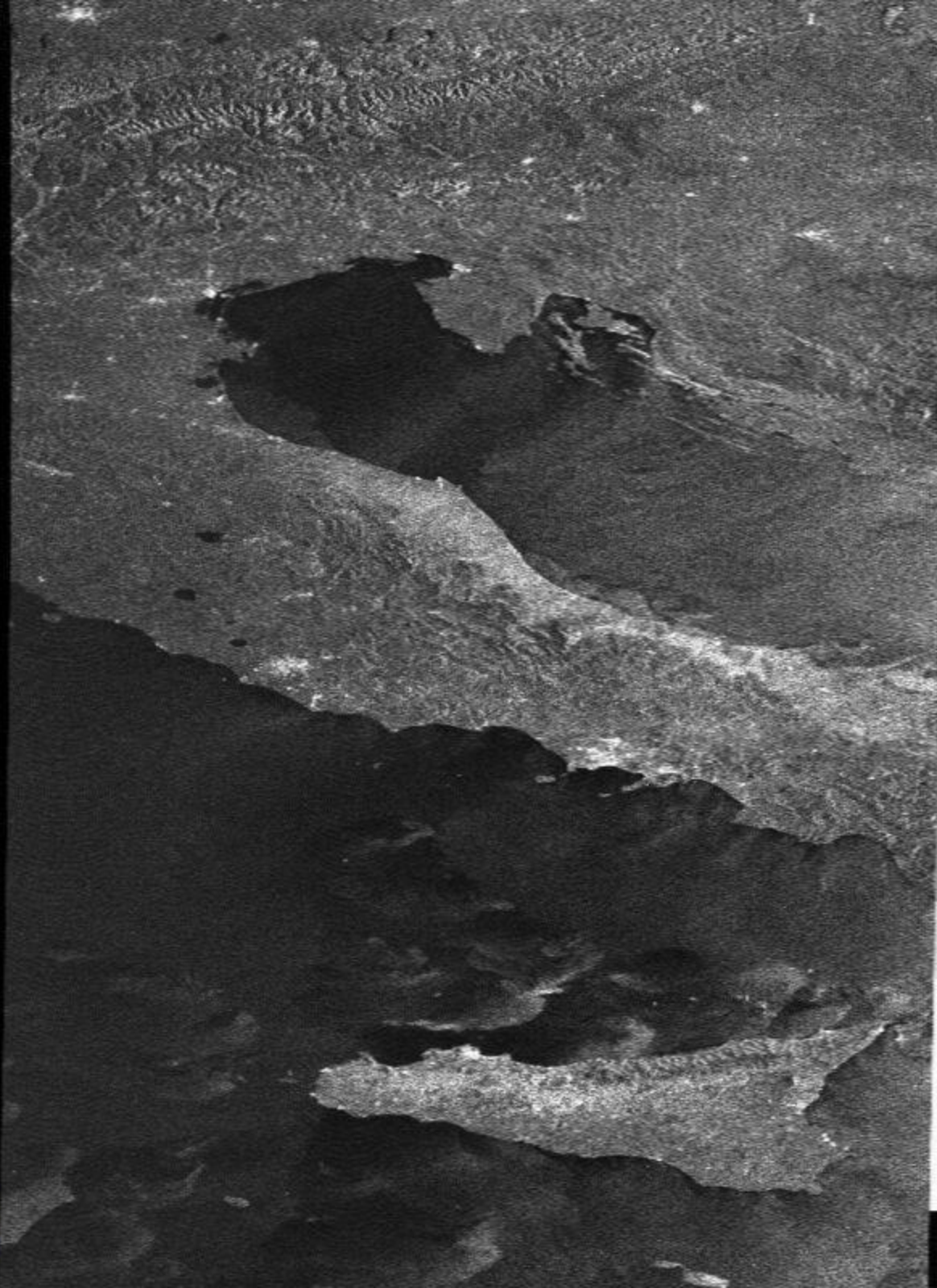
NOAA-11 IR



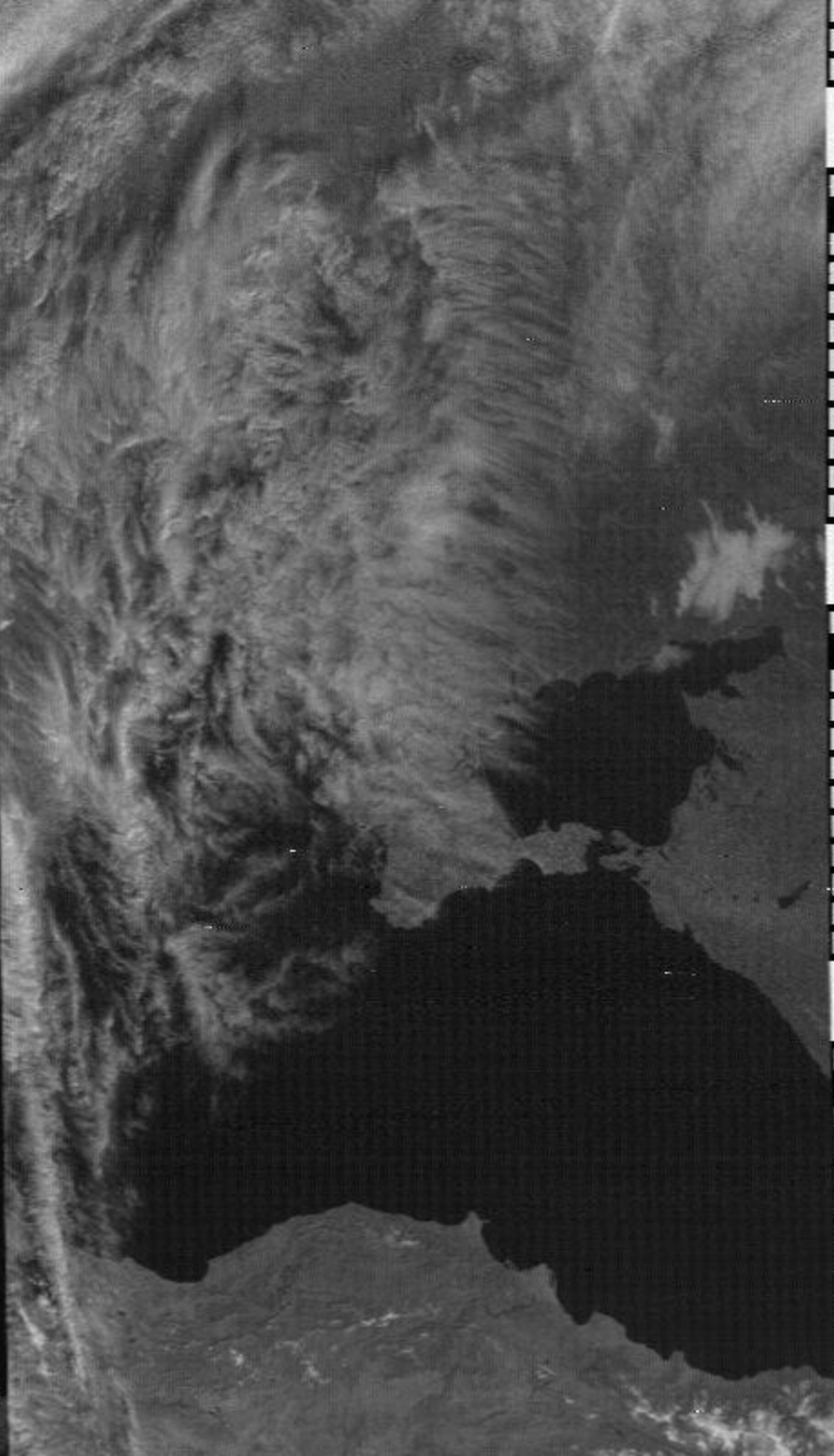
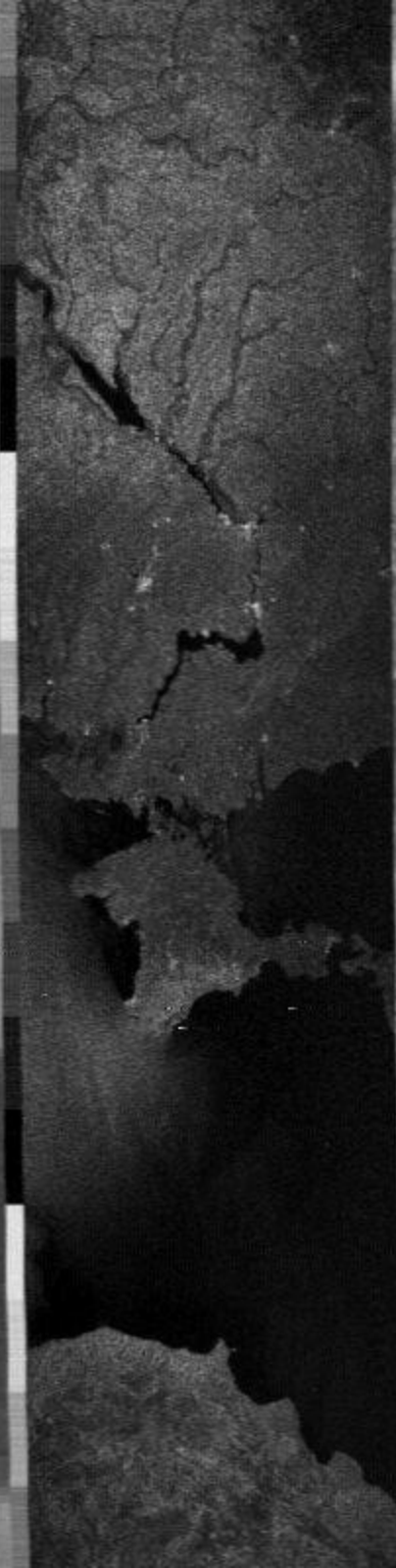
FENGYUN-1B VIS



SICH-1 RADAR



OKEAN-17
IR+RADAR
+VIS



0000
0048
0013

0644

03 19
0023
0032
0000
0050
0000
0021
0000
0048
0013

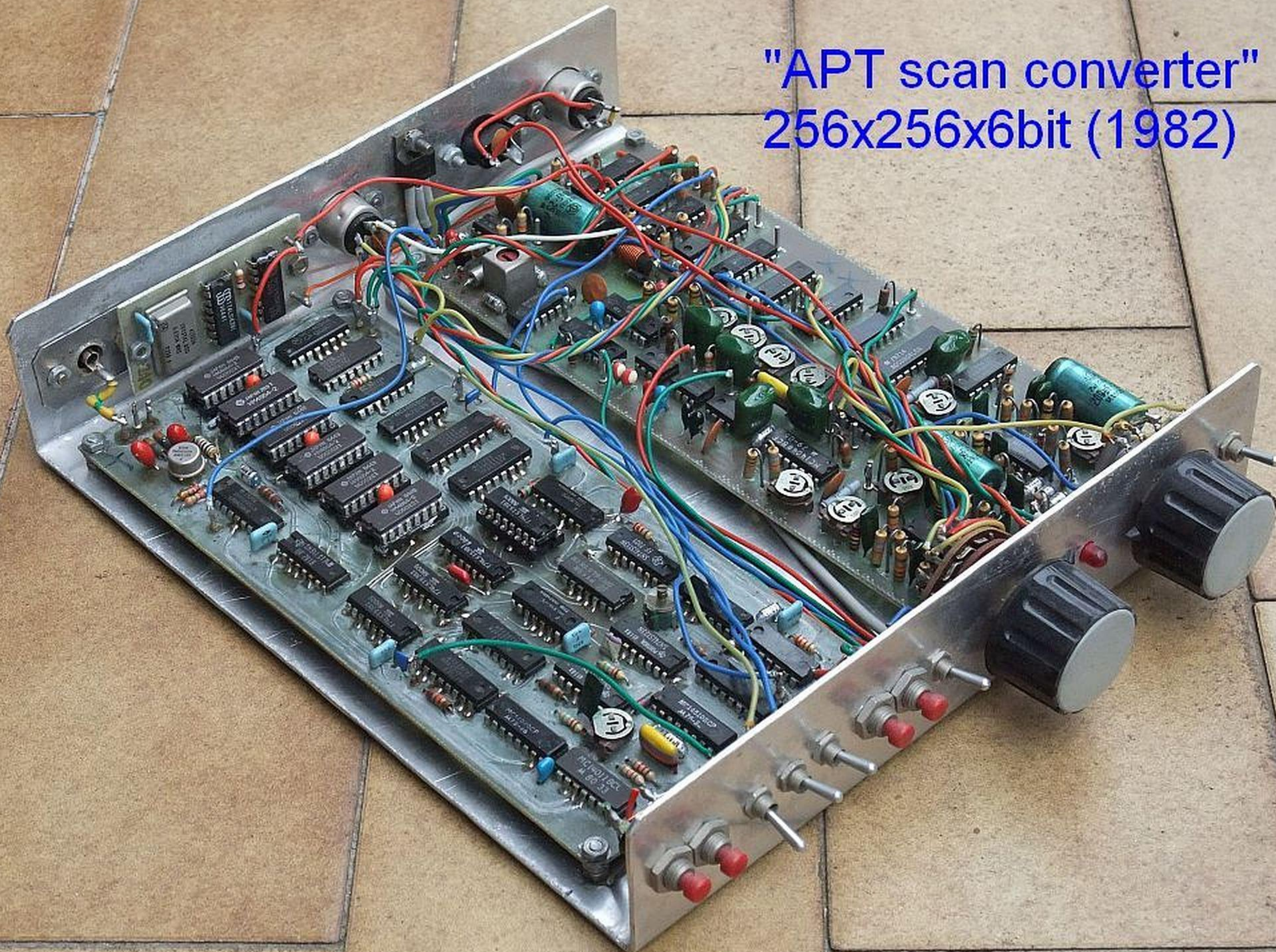
0645

03 19
0023
0032
0000
0051
0000
0021
0000
0048
0013

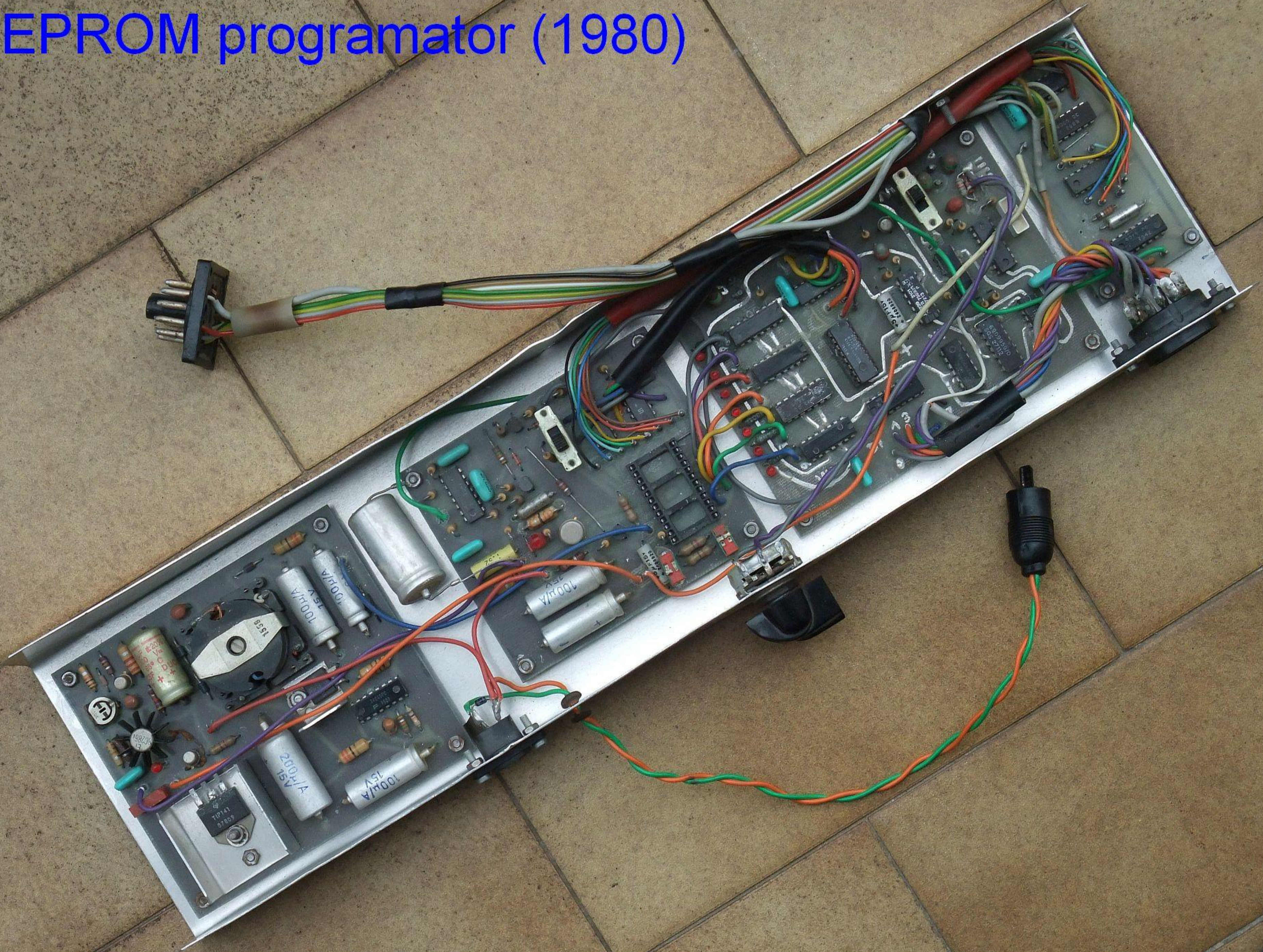
0646

03 19
0023
0032
0000
0050
0000
0021
0000
0048
0013

"APT scan converter"
256x256x6bit (1982)



EPR0M programator (1980)



Heksadecimalna tipkovnica (1980)



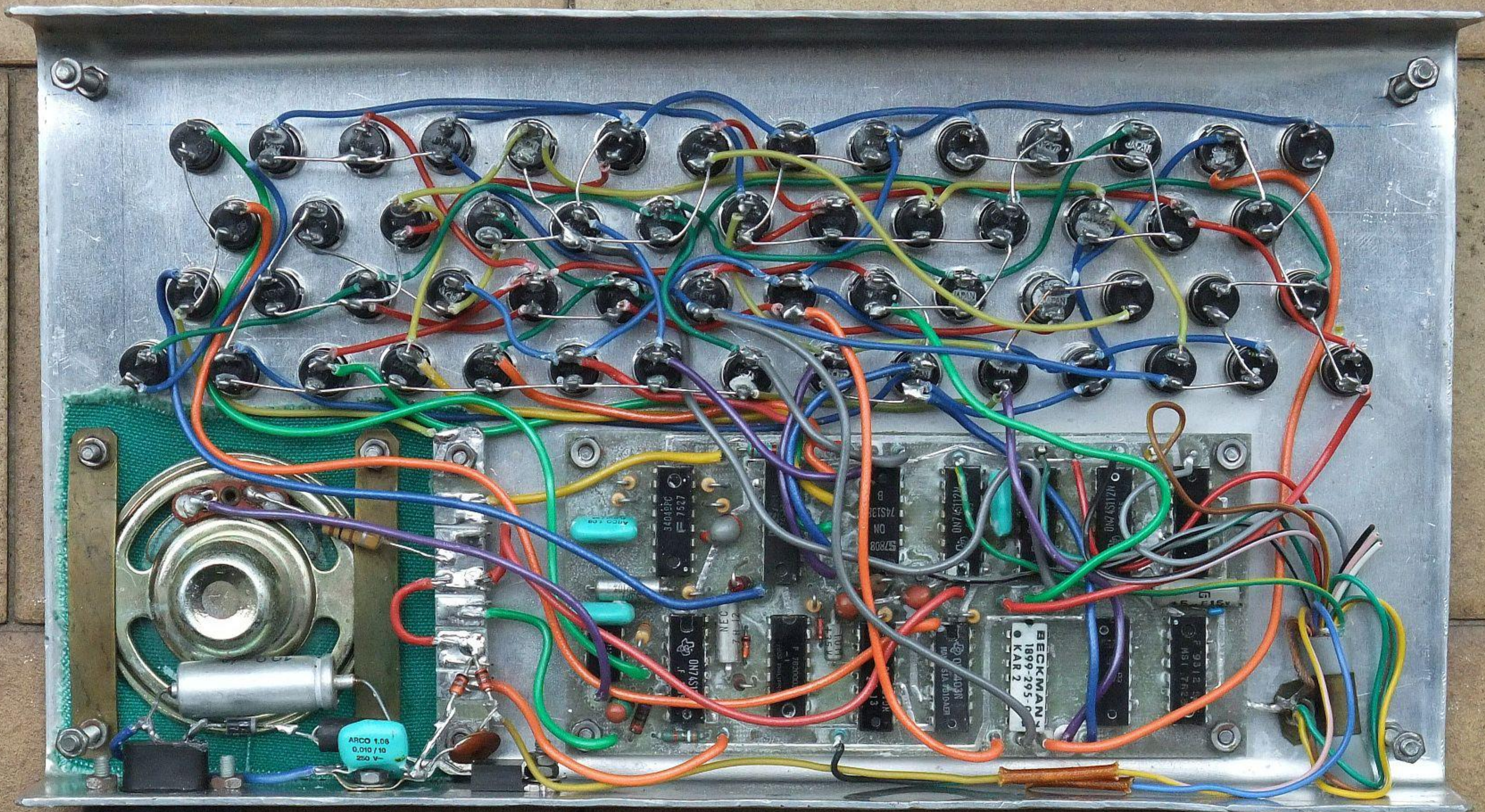
Mikroračunalnik z Intel 8080A (1980)



4kbyte RAM
EPROM prog
RS-232

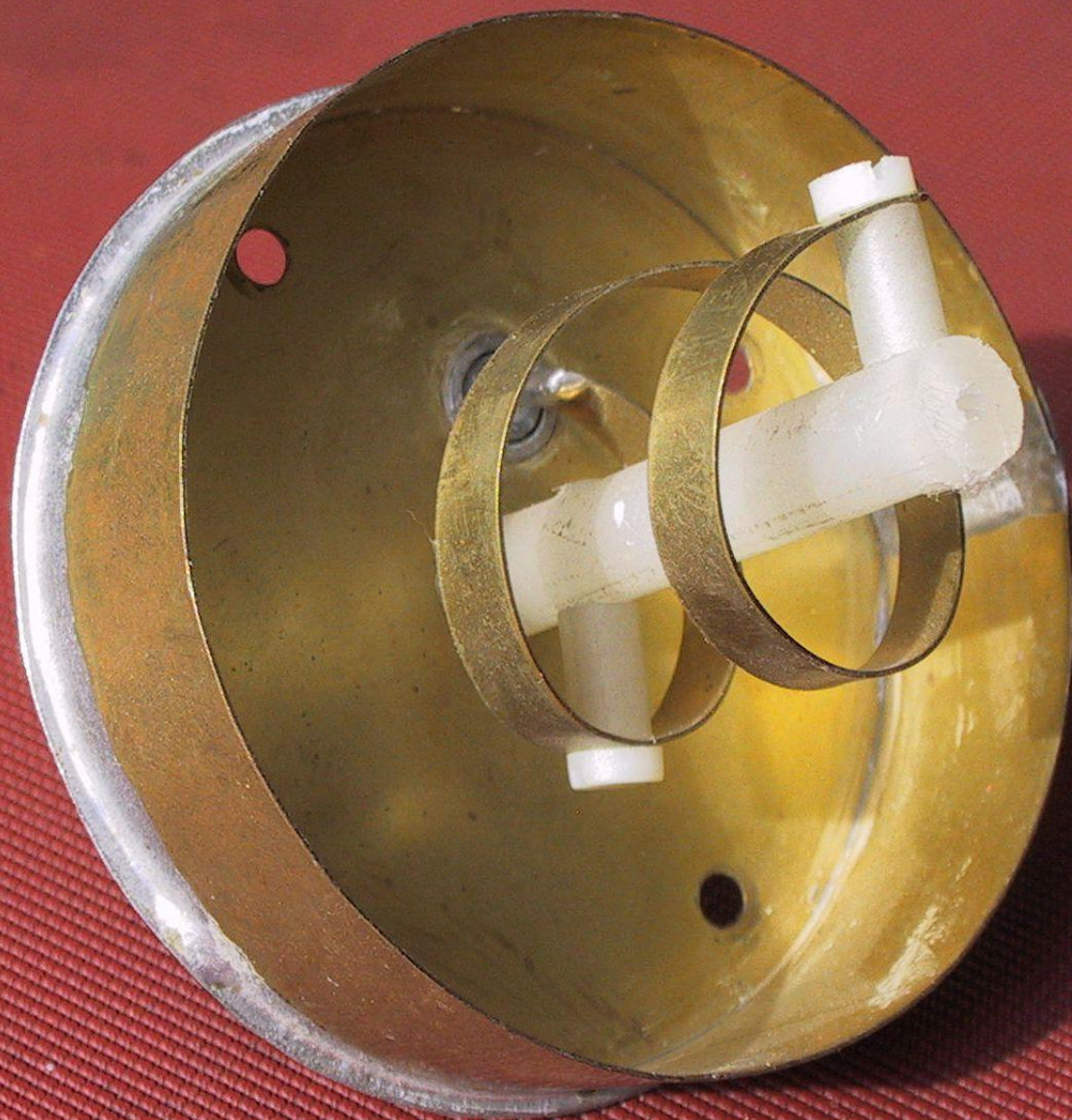


ASCII tipkovnica
(1981)

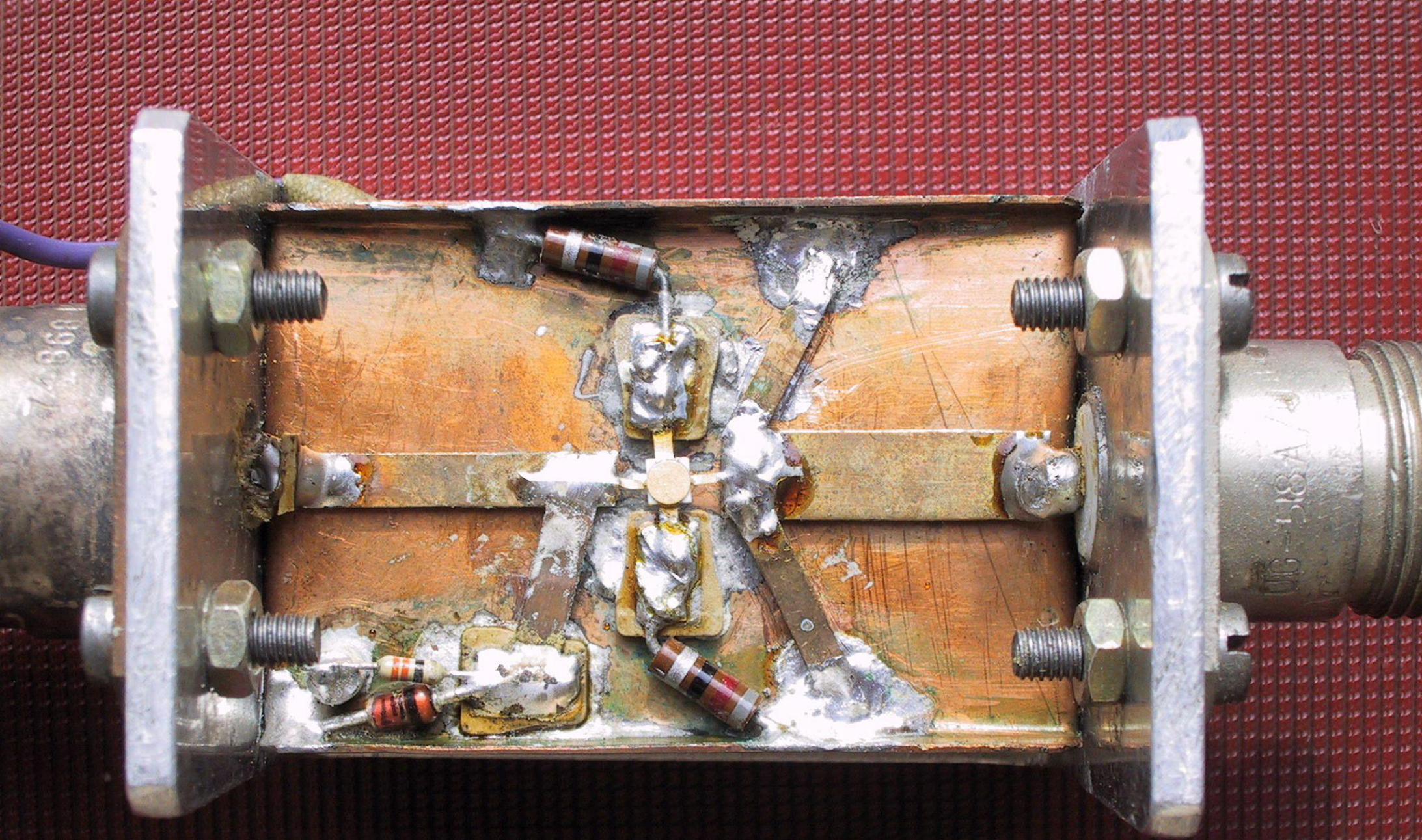


ASCII tipkovnica

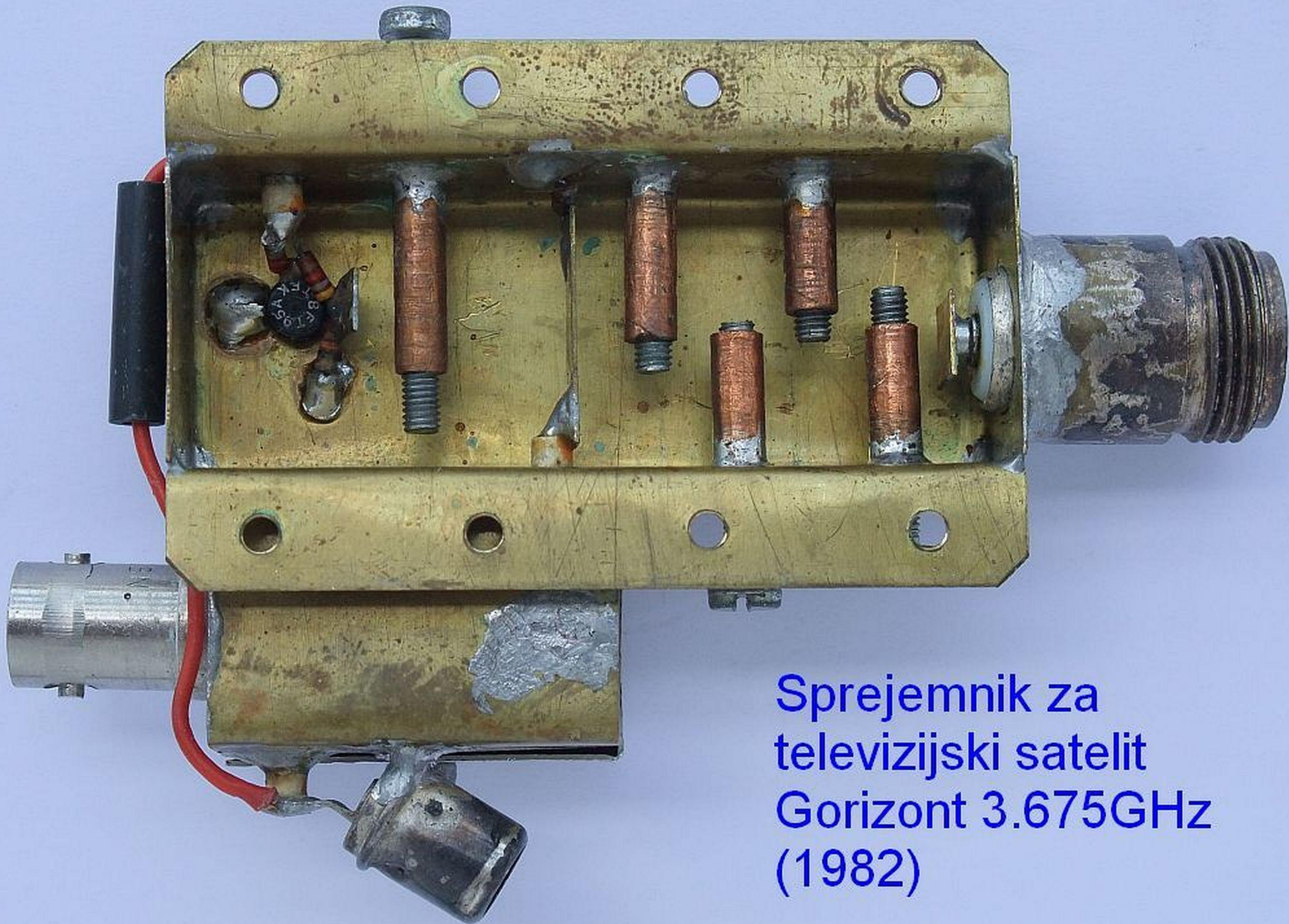
(1981)



Žarilec za 4GHz (1982)

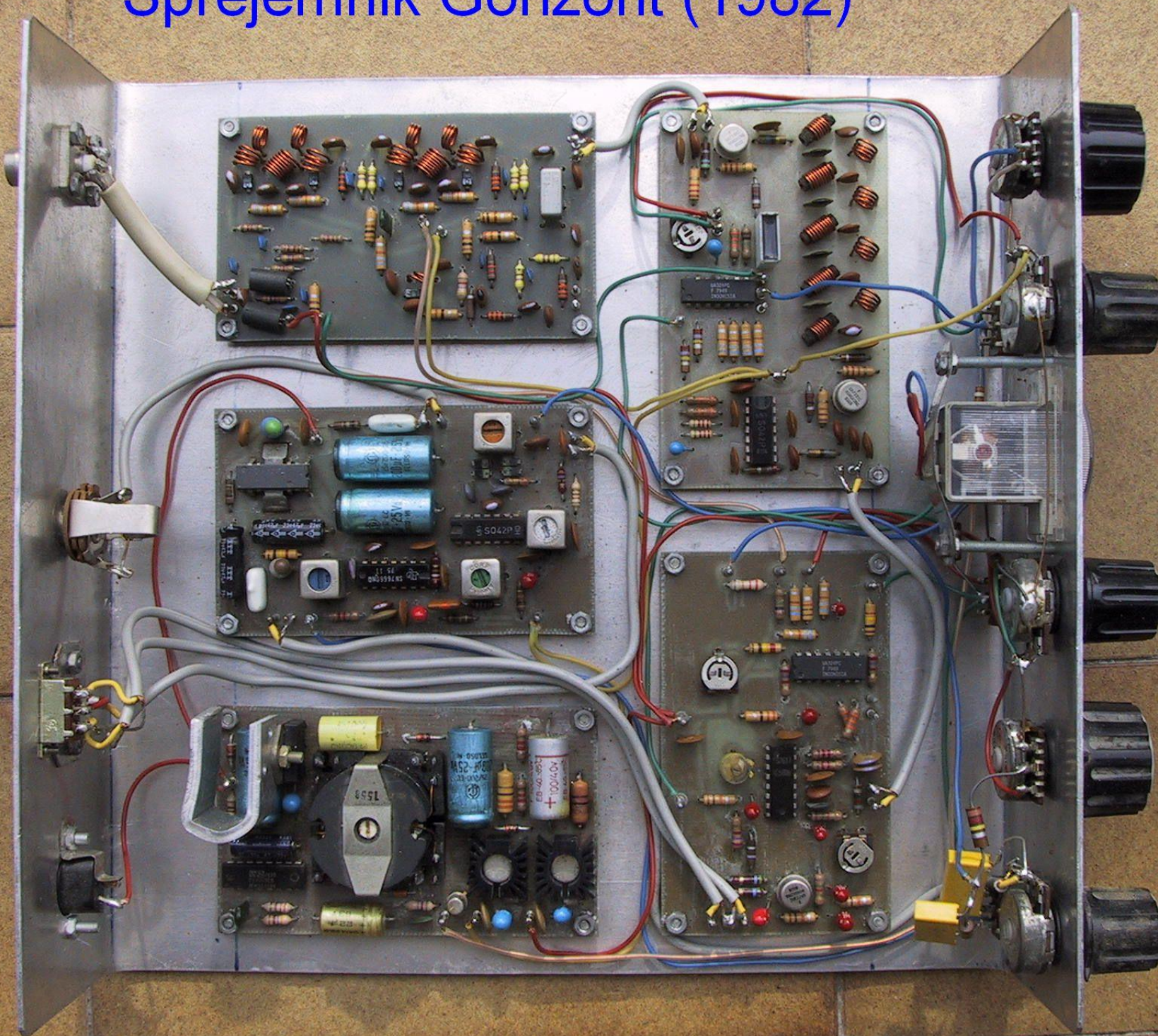


CFY11 LNA za 4GHz (1982)

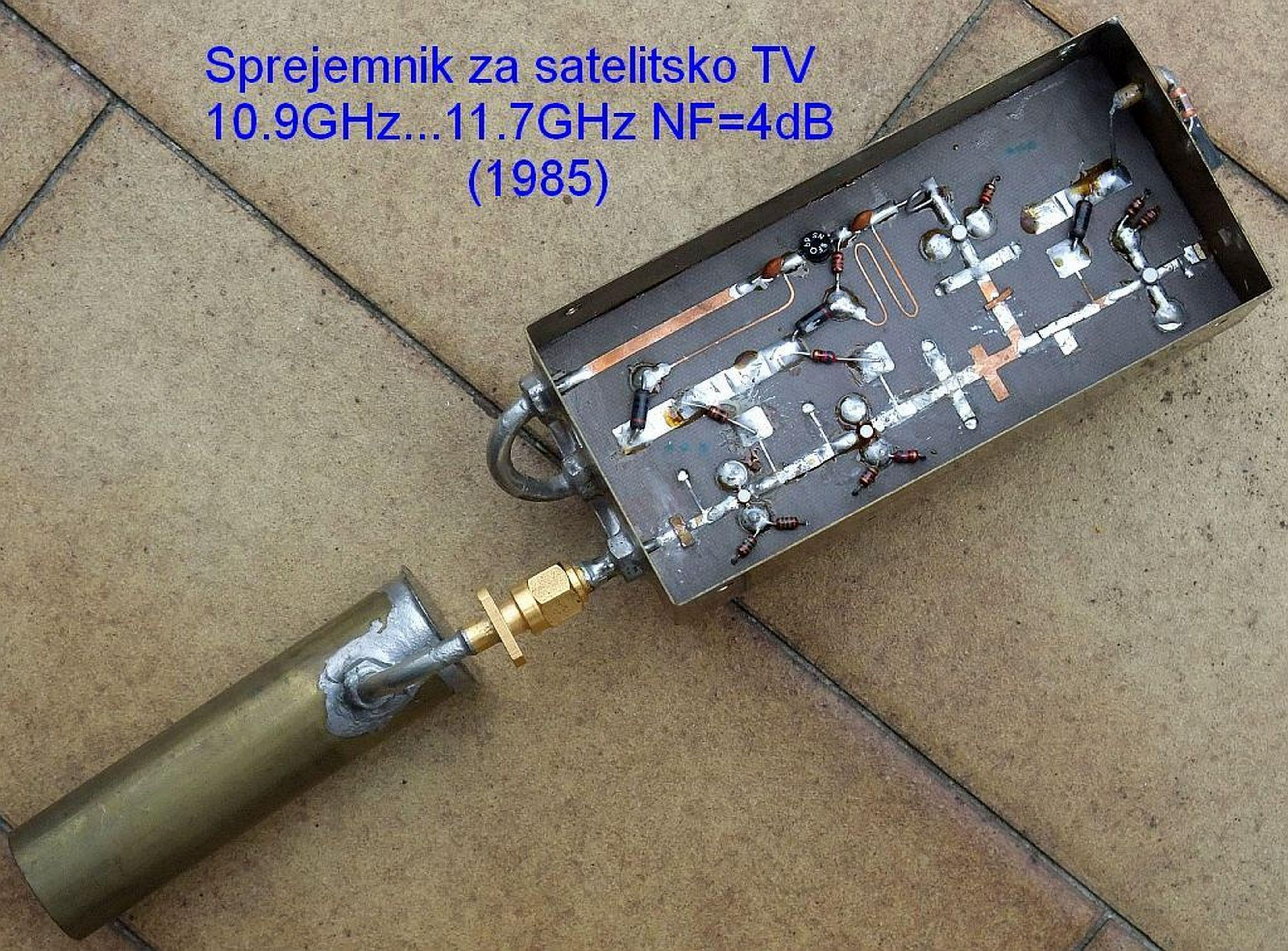


Sprejemnik za
televizijski satelit
Gorizont 3.675GHz
(1982)

Sprejemnik Gorizont (1982)

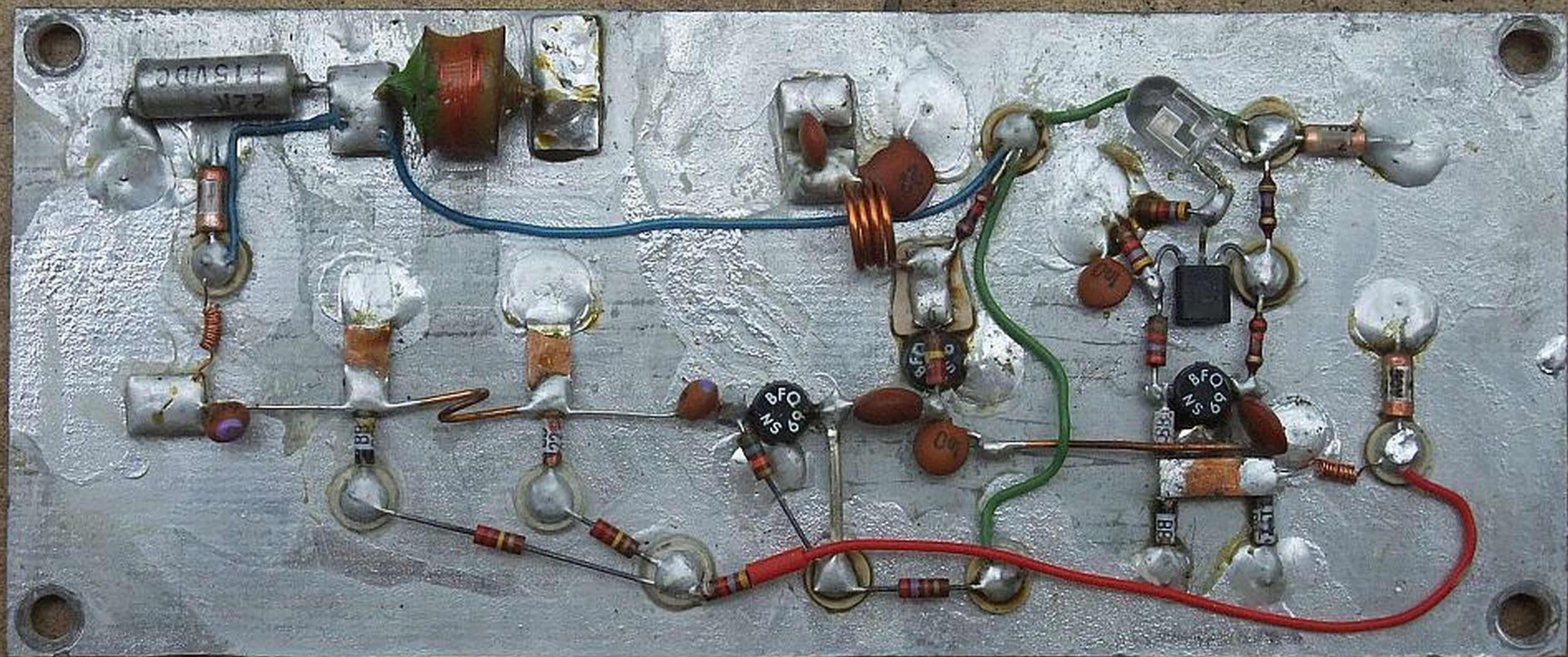


Sprejemnik za satelitsko TV
10.9GHz...11.7GHz NF=4dB
(1985)



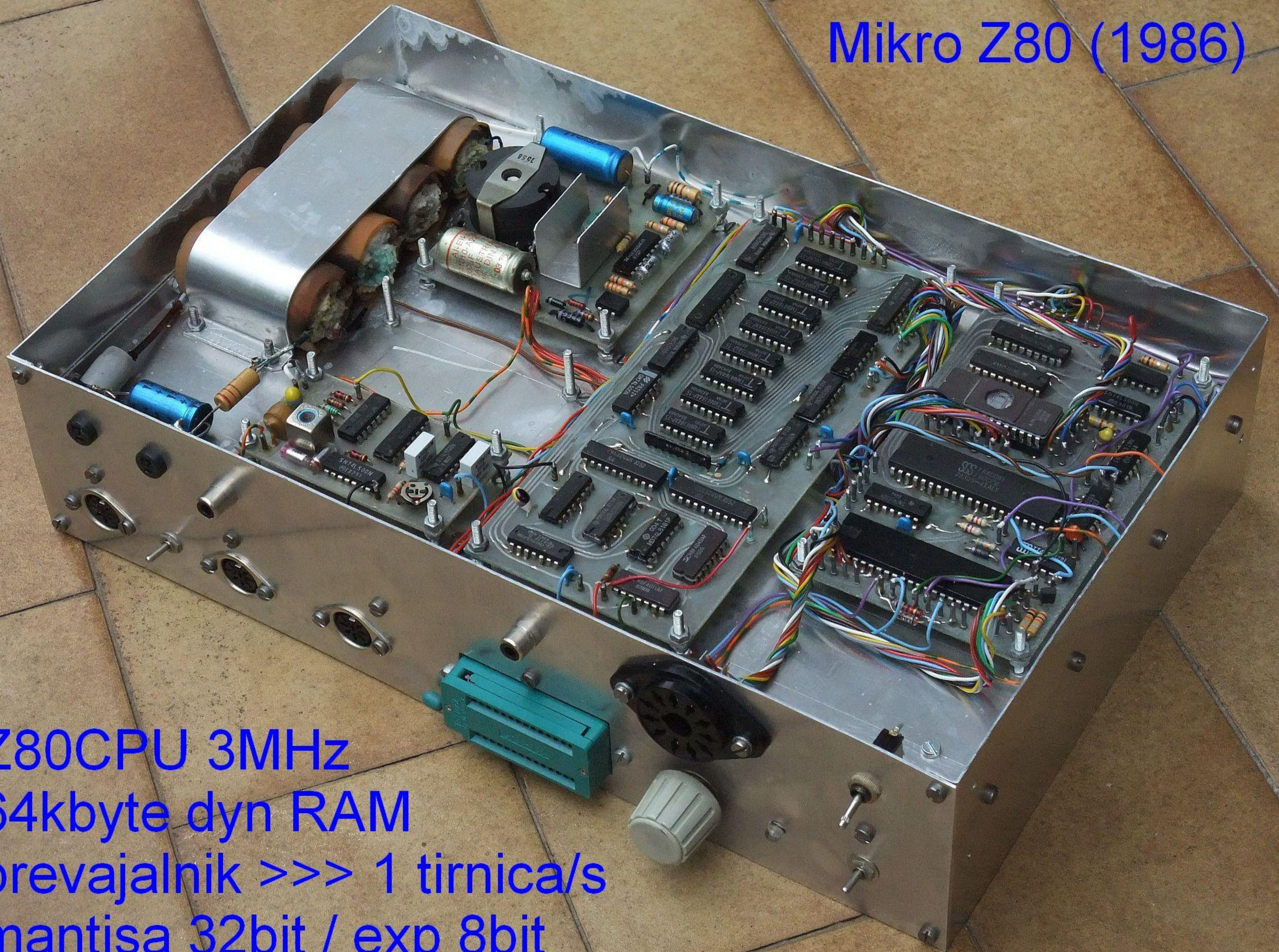
Satelitska TV
(1985)





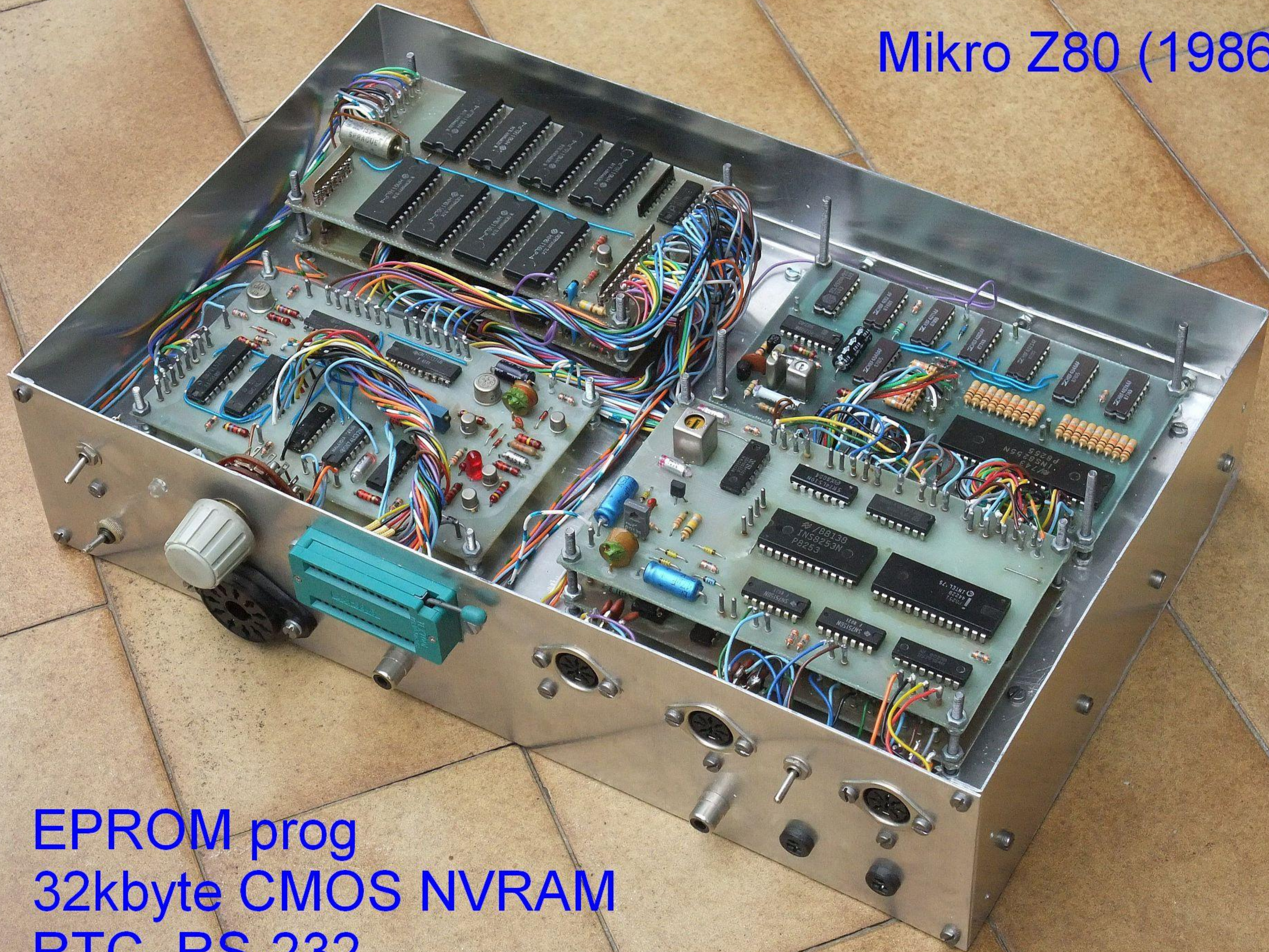
Sat-TV drugo mešanje 0.8GHz-1.8GHz (1985)

Mikro Z80 (1986)



Z80CPU 3MHz
64kbyte dyn RAM
prevajalnik >>> 1 tirnica/s
mantisa 32bit / exp 8bit

Mikro Z80 (1986)



EPR0M prog
32kbyte CMOS NVRAM
RTC, RS-232

Antenski vrtiljak (1986)



***** Satellite 1 TIROSNOPI *****

Ephemeris age : 612.4 days
Time correction : -0 seconds

Date (UTC) : 16 10 2009 day/month/year dayno : 289

Time (UTC) : 9 24 4 hours/minutes/seconds

Latitude : 67.3 degrees SOUTH
Longitude : 109.2 degrees WEST

Altitude : 848 km Radius : 7208 km
Velocity : 7.4 km/s Flight path : -0.0 degrees

Elevation : -70.9 degrees Link 1 : 145.809 MHz
Azimuth : 213.5 degrees Doppler : -0.323 kHz

Distance : 12906 km Link 2 : 436.039 MHz
Relative speed : 0.6 km/s Doppler : -0.956 kHz

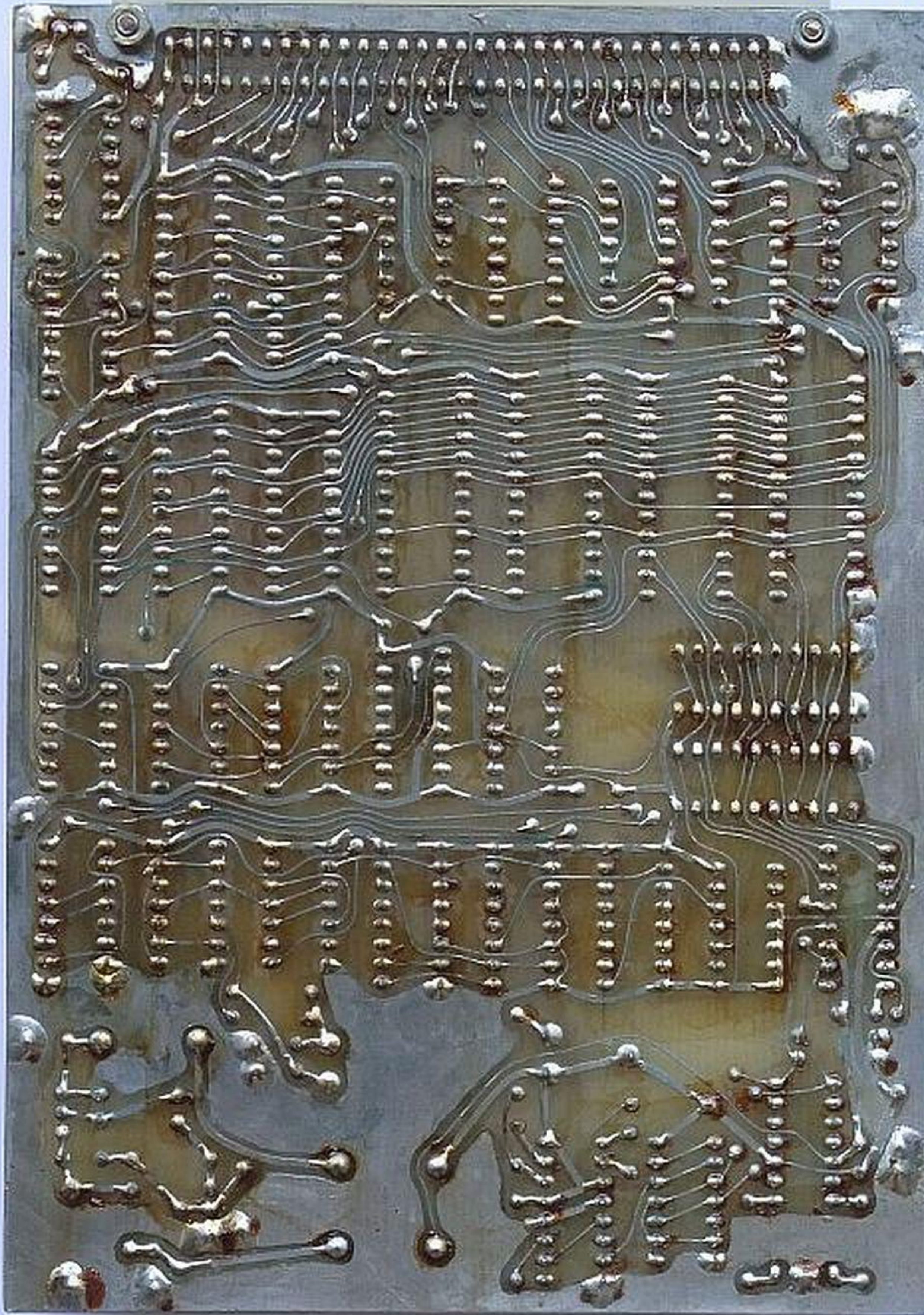
Mean anomaly : 154/256 Link 3 : 1269.497 MHz
Orbit number : 81616 Doppler : -2.814 kHz

Rotator power : ON AZ OVERLAP tracking
Rotator EL count : 60
Rotator AZ count : 142 Status : FOUND

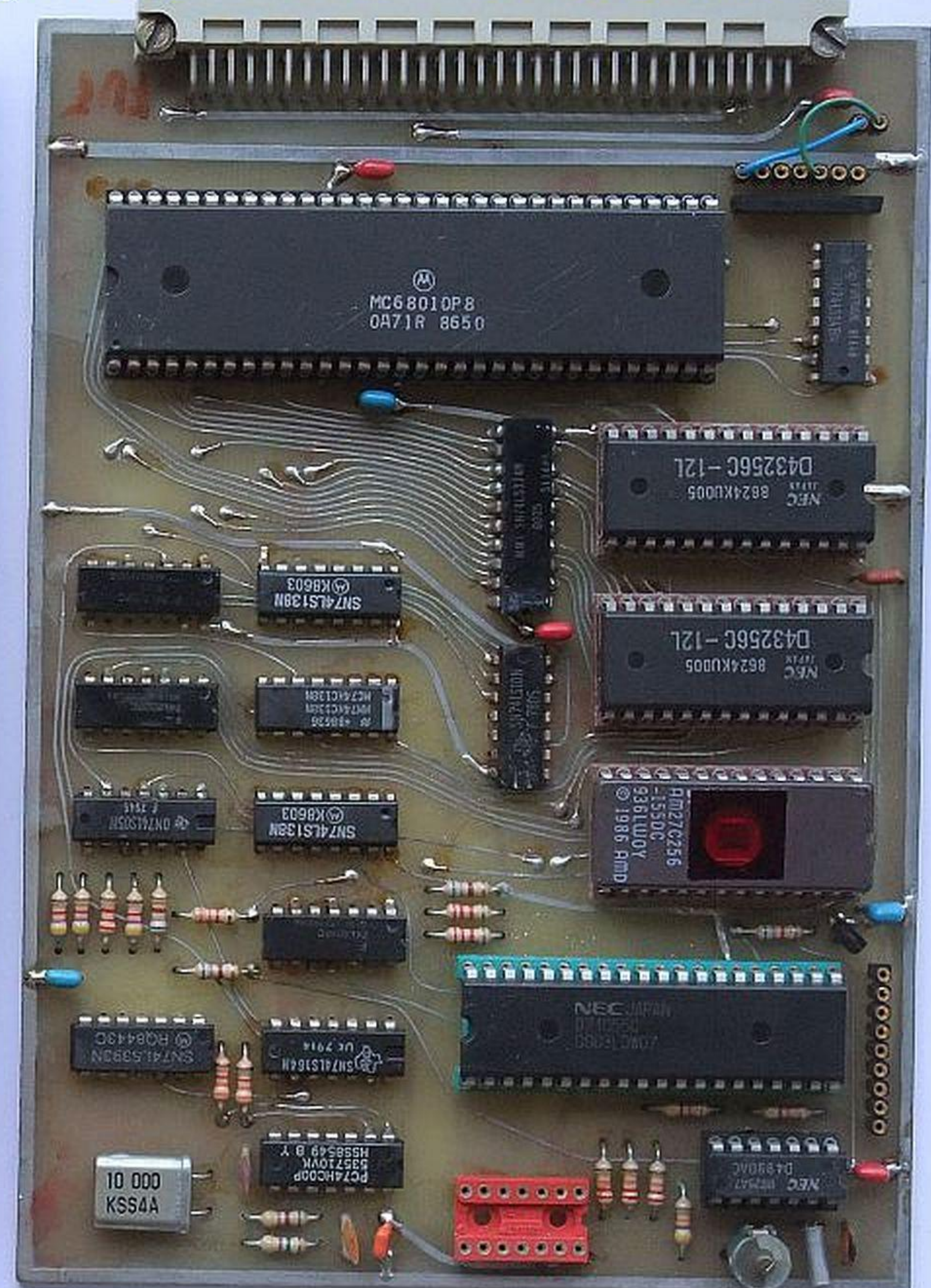
Next max EL : 8.6 degrees At : 11 53 8.147 UTC
Next max AZ : 49.5 degrees Quadrant : 1
AZ range from : -158.0 degrees To : 202.0 degrees
EL range from : 0.0 degrees To : 90.0 degrees

Sledenje satelita (1986)

Prevajalnik + OS 40 tirnic/s



Video



Računalnik z MC68010 (1986)

CPU



Računalnik z MC68010 (1986)

Satellite :
GPSB11A-22

Altitude :
20023km



43.9N
57.1E

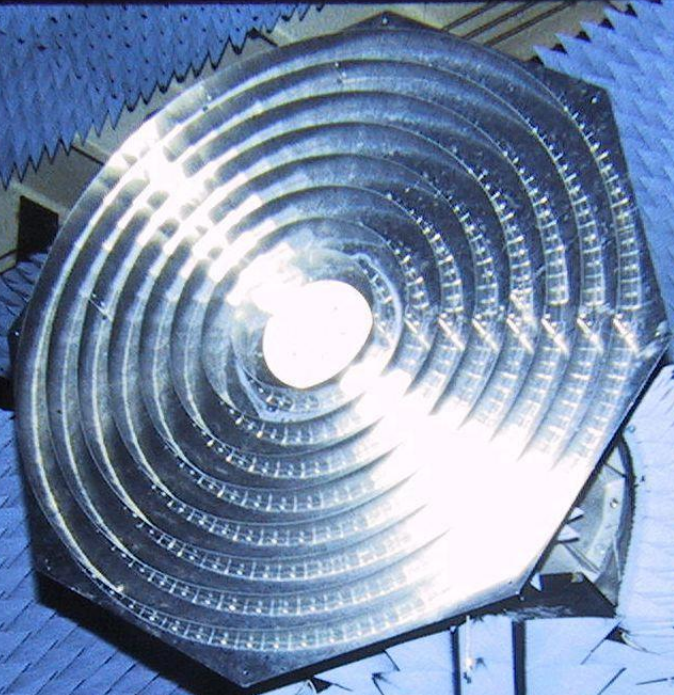
9 26 38
16 10 2009

Računalnik z MC68010 (1986)

GPS antenna
za NIST (1989)

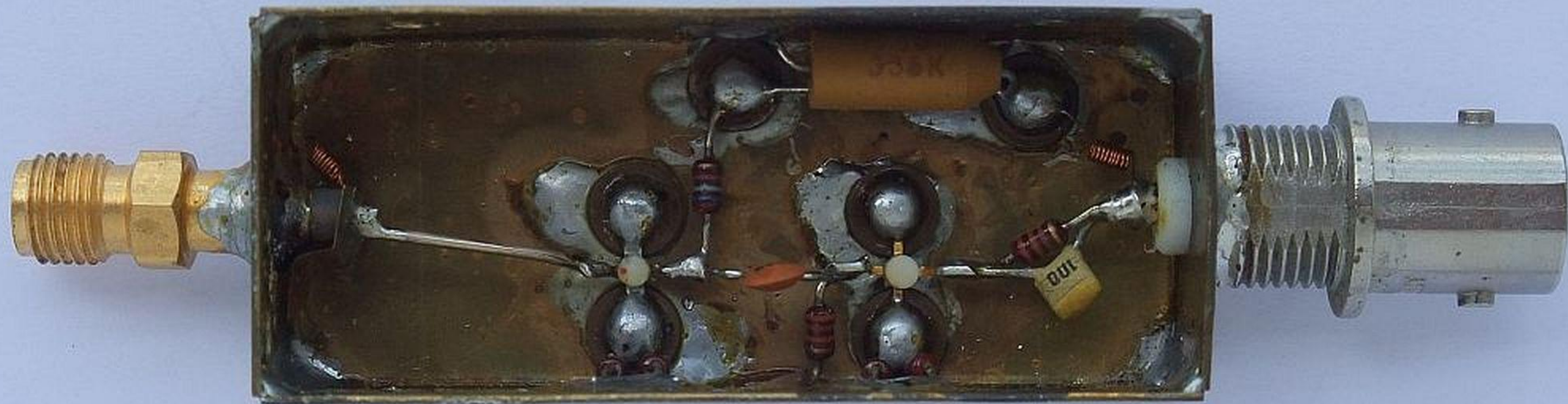


GPS antenna
za NIST
Boulder
Colorado
(1989)

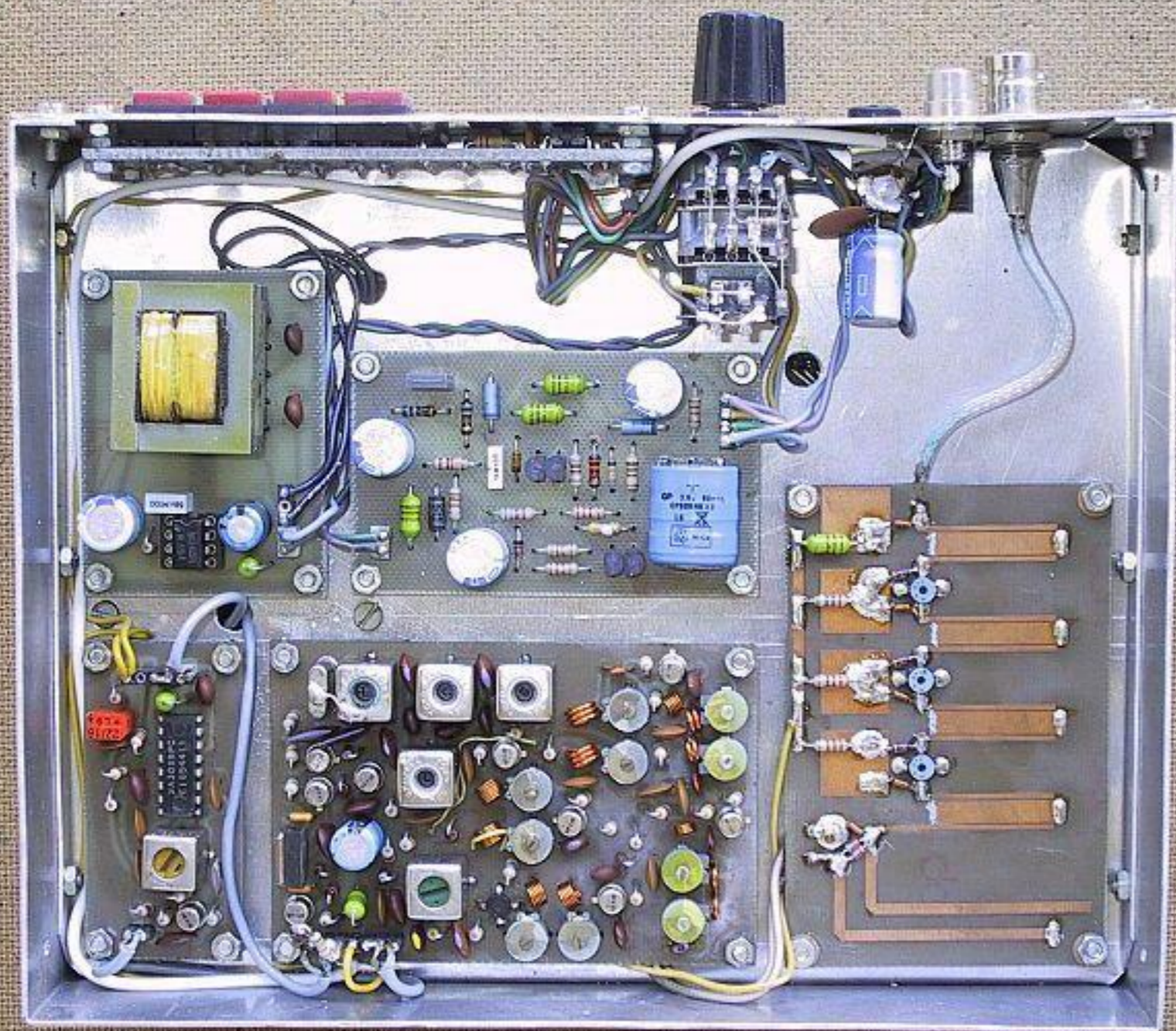
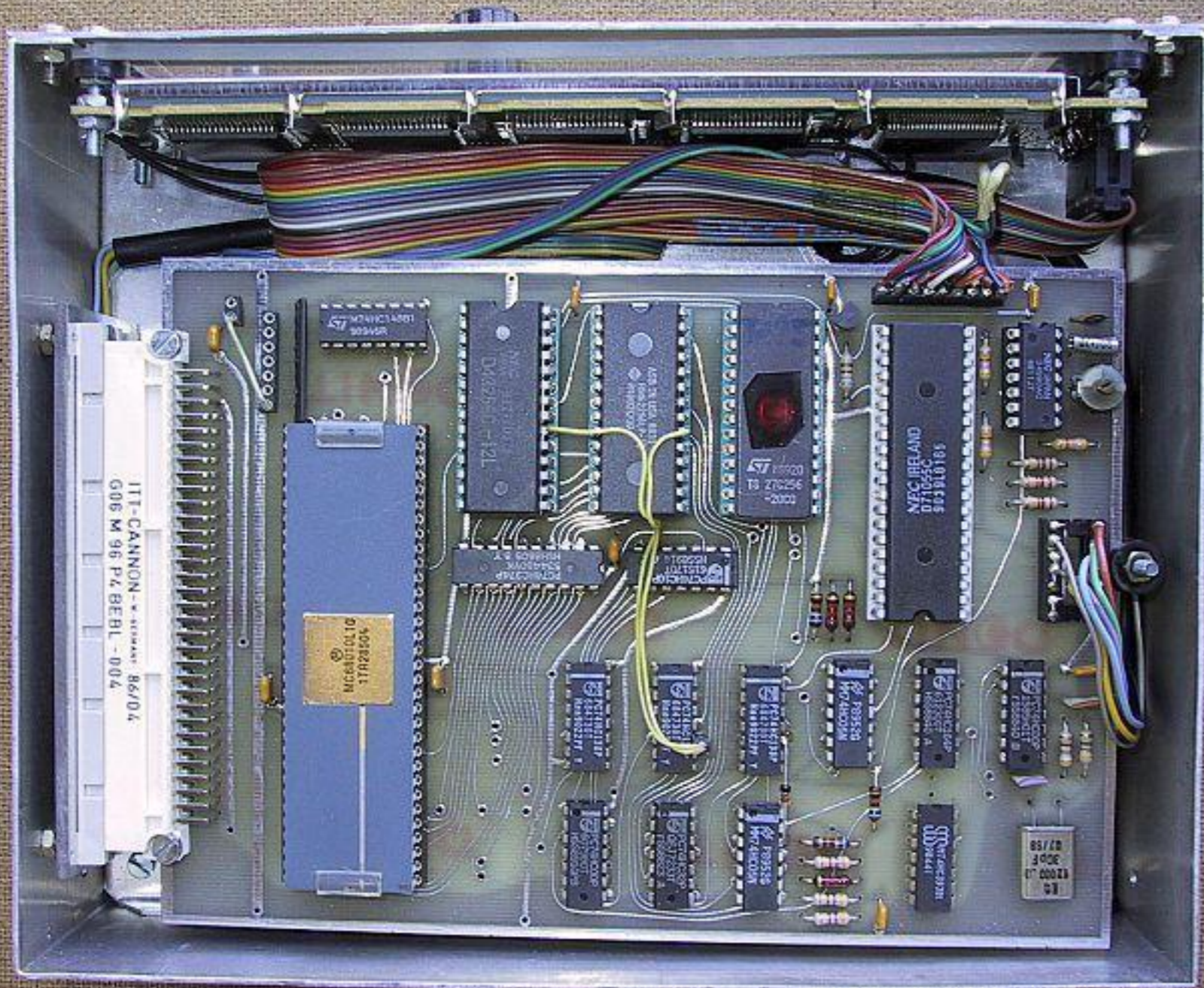


NIST
(1989)

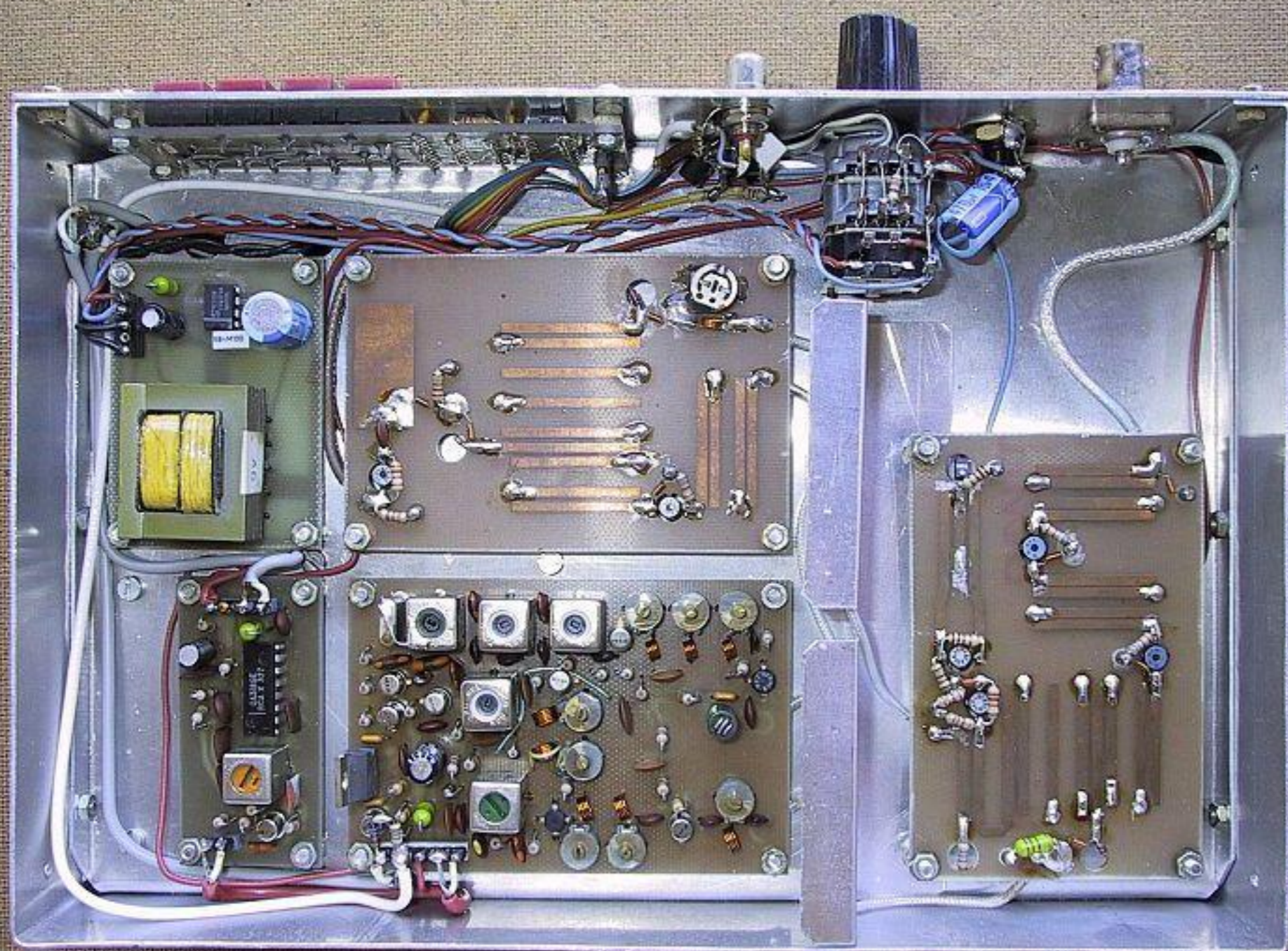
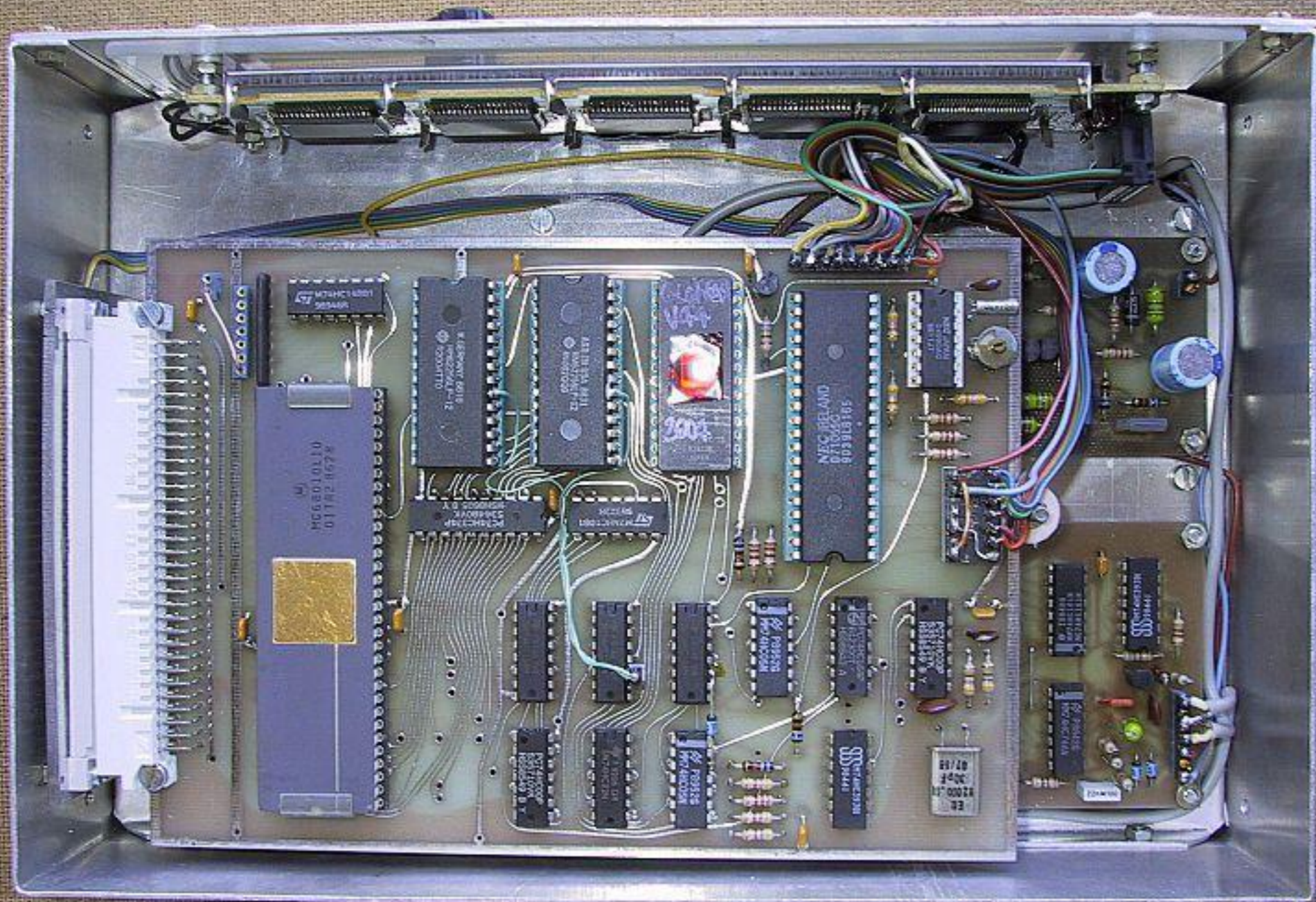




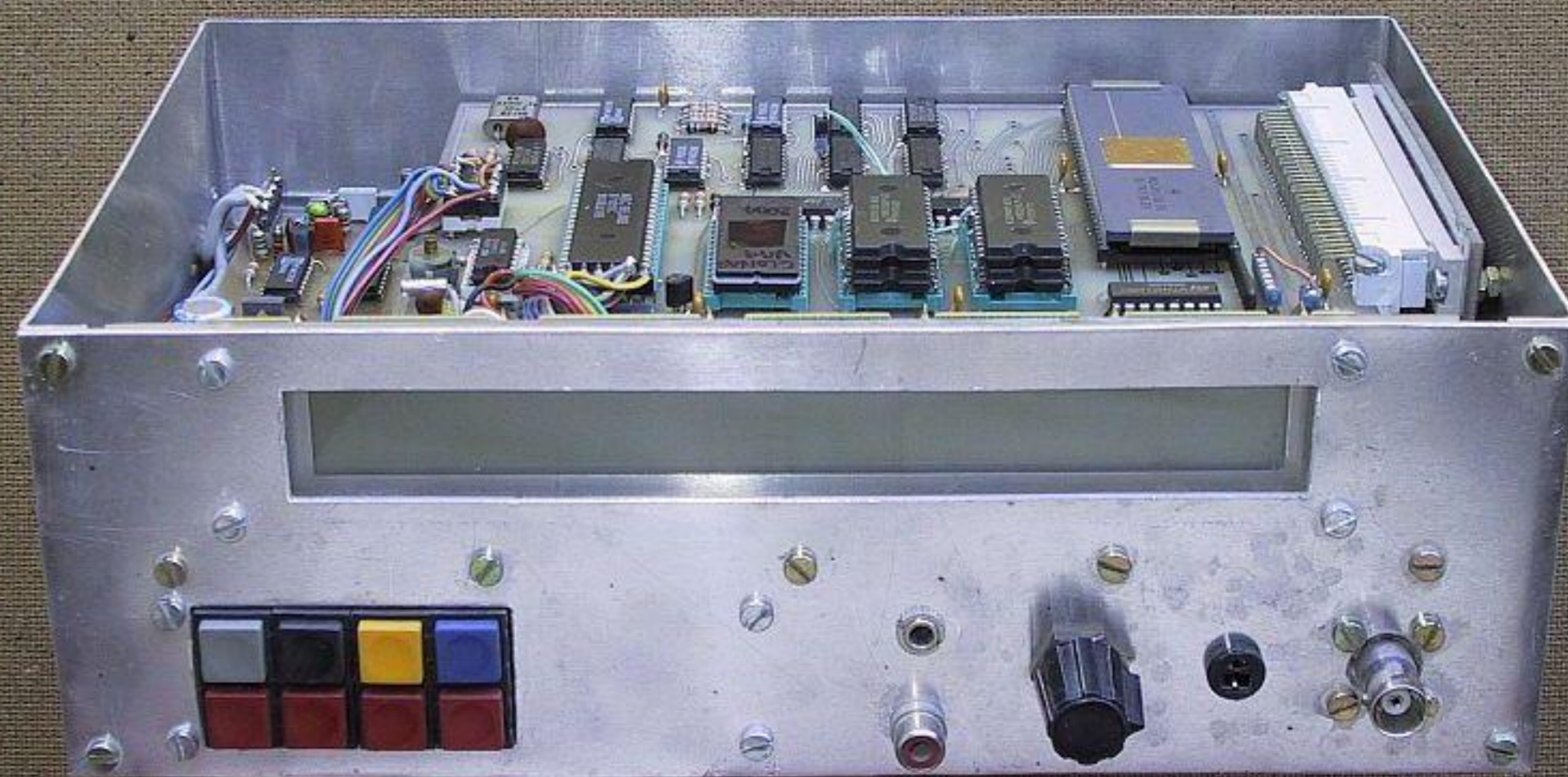
Nizkošumni $F=0.5\text{dB}$ ojačevalnik za 2.4GHz (1990)



Sprejemnik GPS (1991)



Sprejemnik GLONASS (1992)





ZIF-BPSK 23cm

Radijska postaja 1.2Mbps z ničelno medfrekvenco (1996)

Spektralni analizator 0...1750MHz (1997)



PRIKAZOVALNIK
LCD 128x64

PREŽA

40dB

80dB

10dB-5dB/div

MIN MAX

LCD

2ms/div

VPIS

POMNILNIK

ODMIK

BREZ

RAZLIKA

fLO

VHOD
1...26GHz

IZHOD
0...1750MHz

HARMONSKI KONVERTER

fVCO1

fVCO2

4 x -10dB

5M 10M 20M 50M $\Delta f/div$

2M 100M
1M 200M

10K 20K 50K 150K 700K 4M

VB
20K
500K
1K

Y-NF
izhod

SPEKTRALNI
ANALIZATOR
0...1750MHz

#2 500K 200K 100K 50K

$\Delta f=0$

T/div

STAB
VCO#1

VKLOP

SLEDILNI
IZVOR
0...1750MHz

-10dBm

4 x -10dB

-40...+0dBm

JAKOST

1...100MHz

FREKVENCA

ODMIK

-16.4

dB

1MHz

IZKLOP

100kHz

409

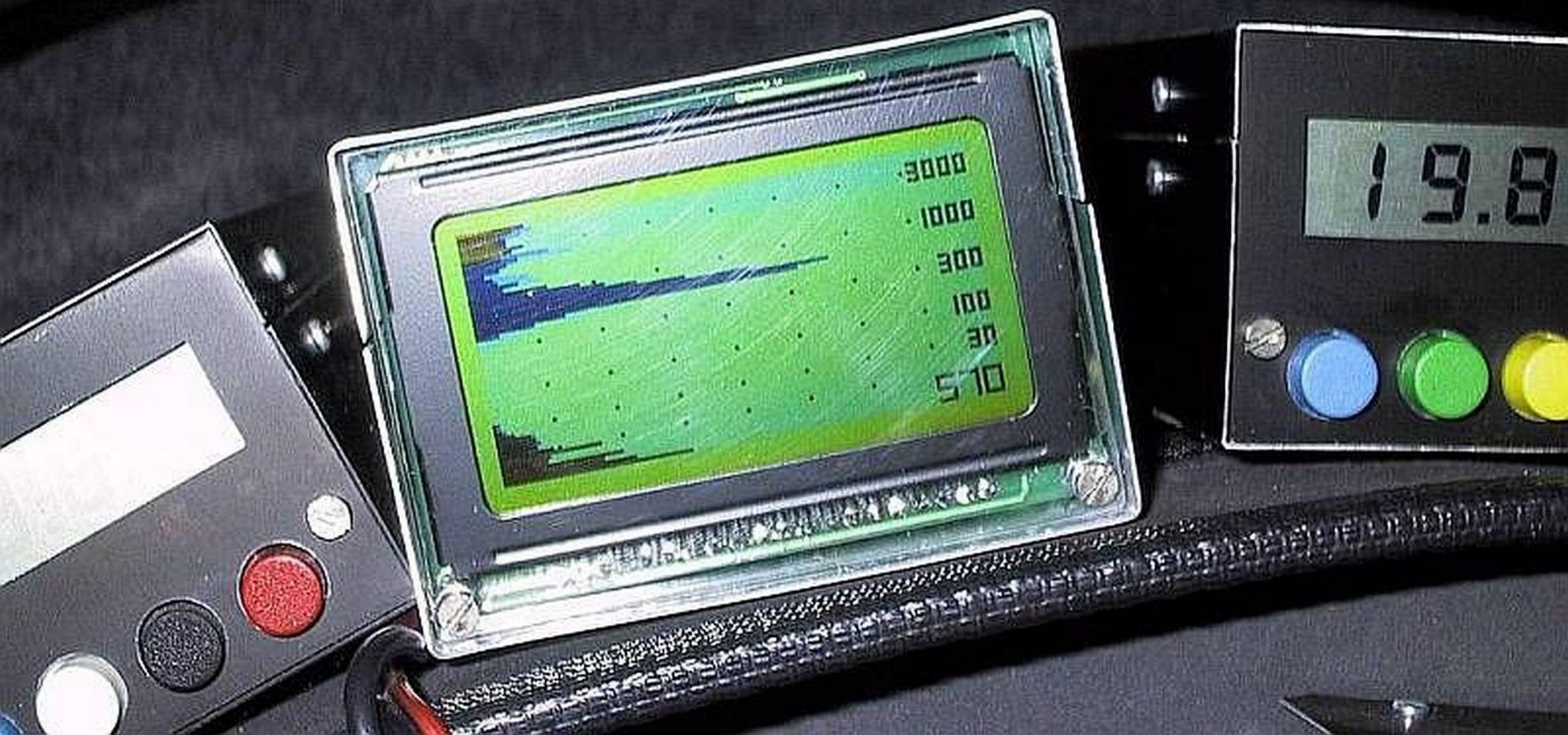
MHz/100kHz

POLOŽAJ - X

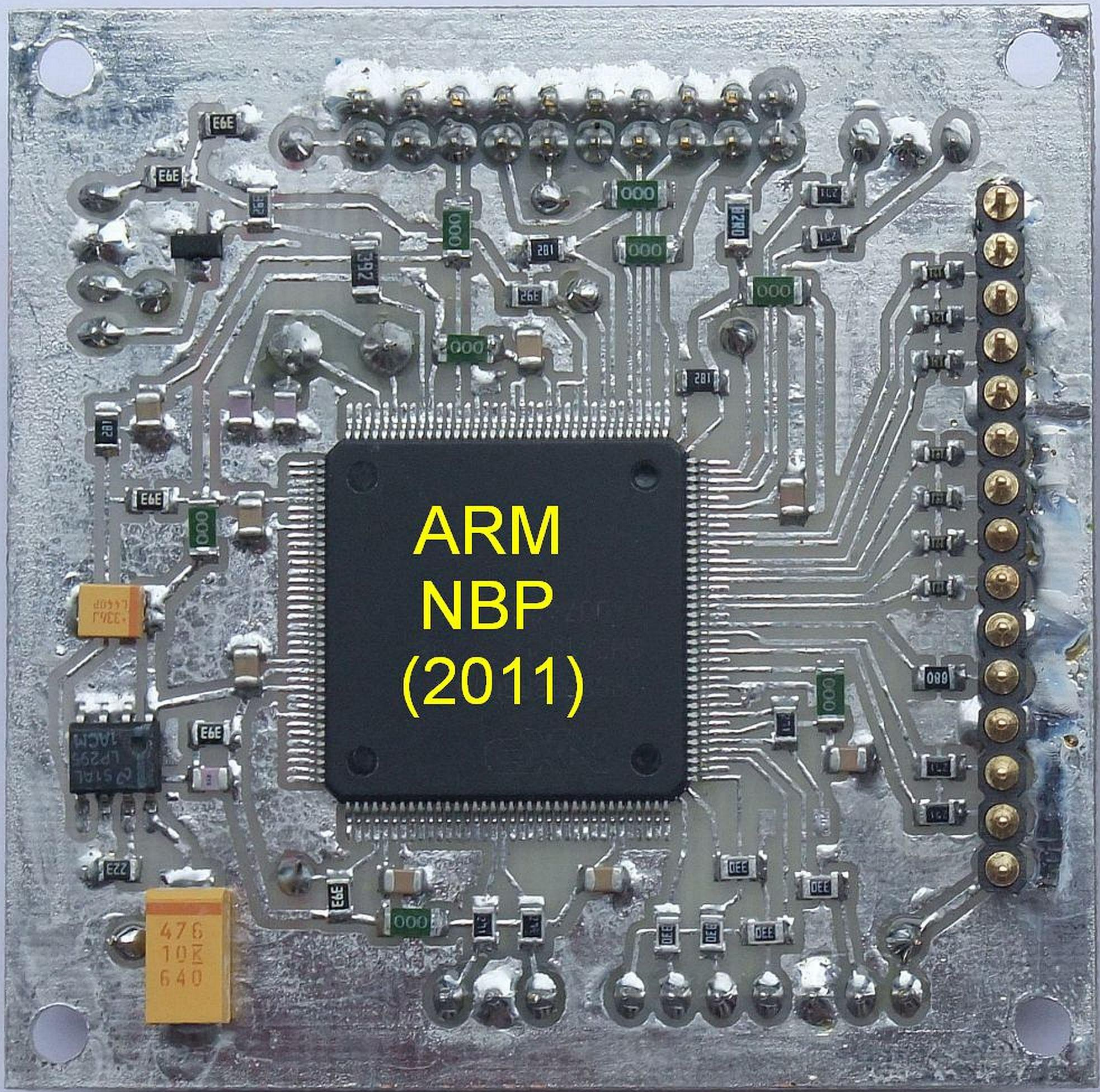
Samogradnja avionike



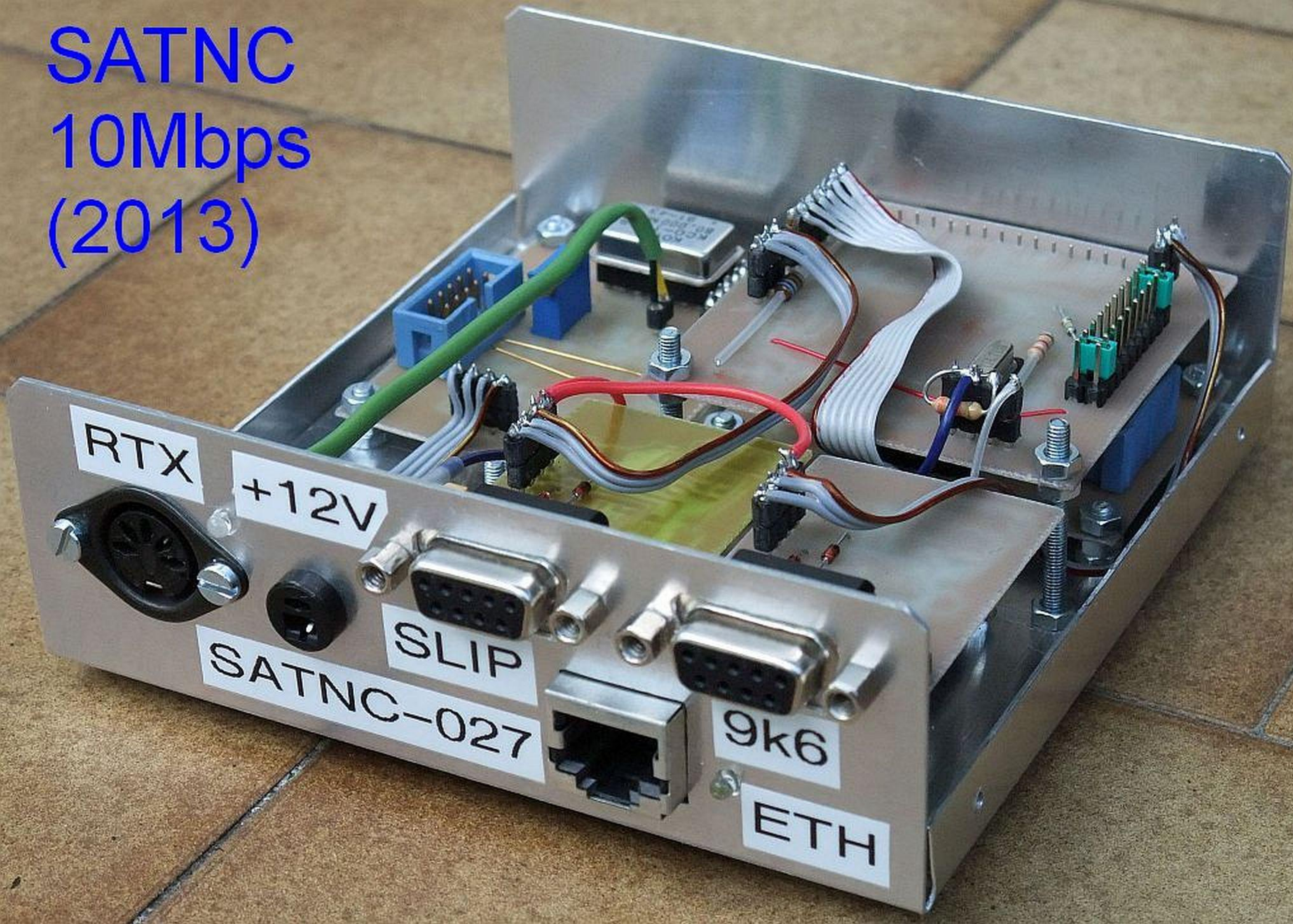
Radarski višinomer 4.3GHz (2008)

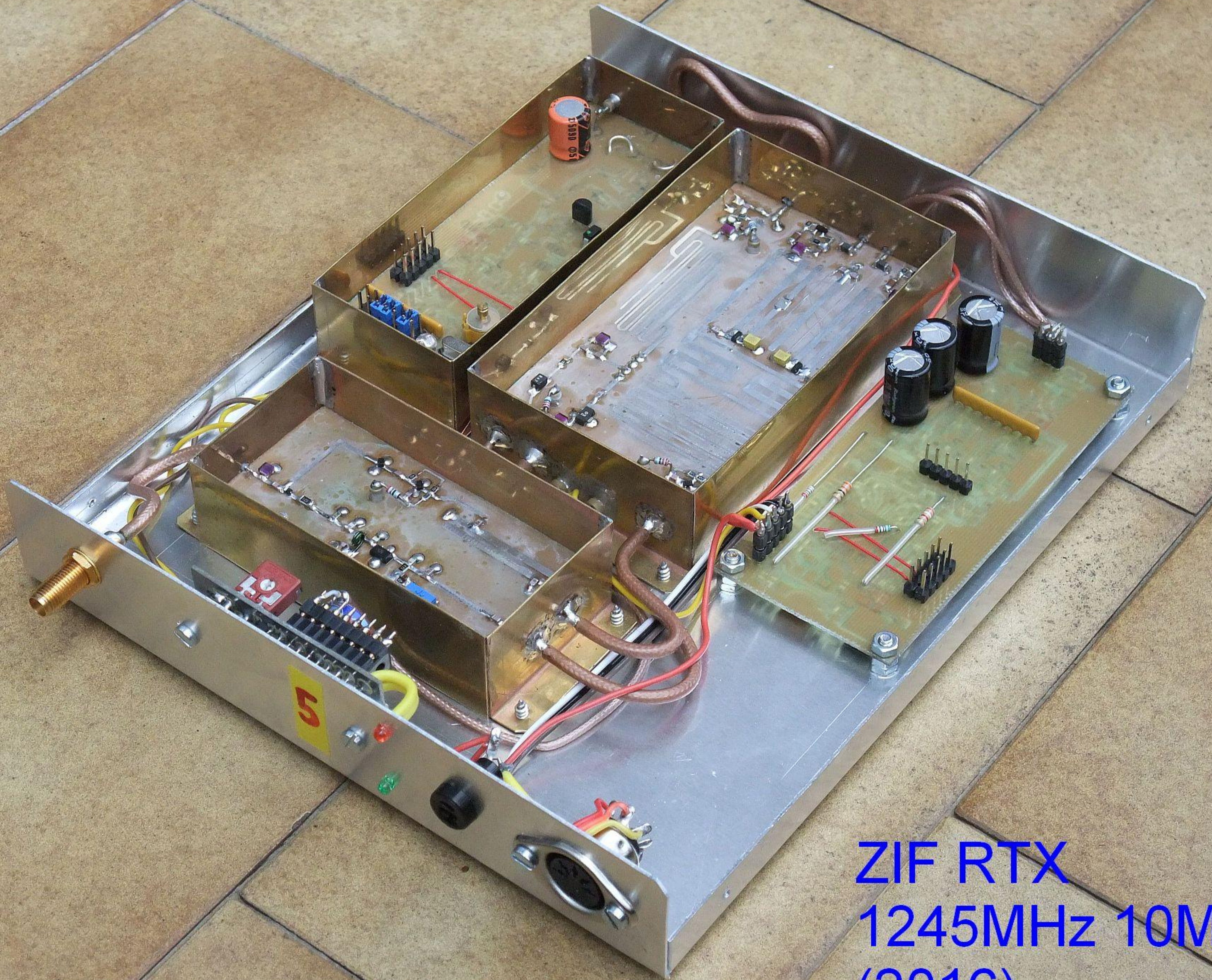


ARM
NBP
(2011)



SATNC
10Mbps
(2013)





ZIF RTX
1245MHz 10Mbps
(2016)