



Radio Station

SM7LCB

ROS-Project

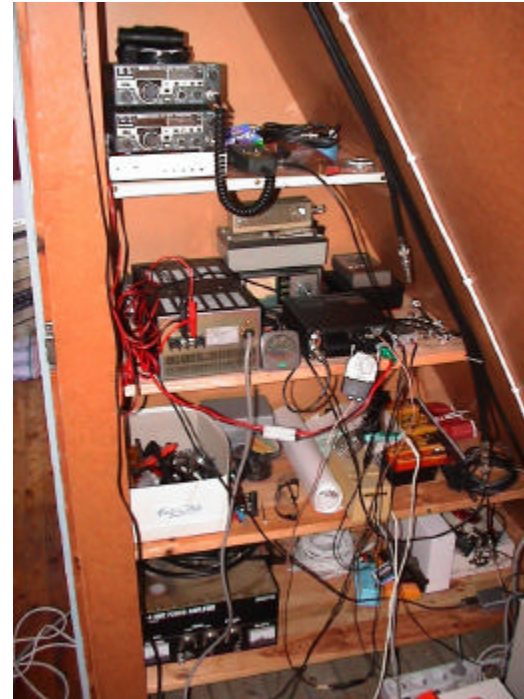
Remote Operated Station

By Ulf / SM0LCB

Remote site (radio)



- Radio/computer house.
- Coax to antenna house.
- Computer old Dell (Linux).
- ADSL via local WLAN link.



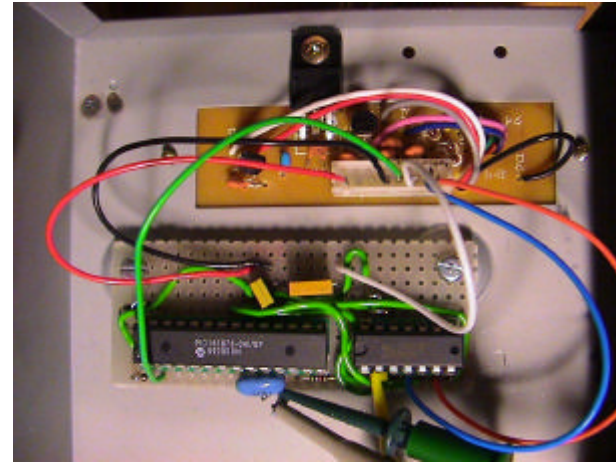
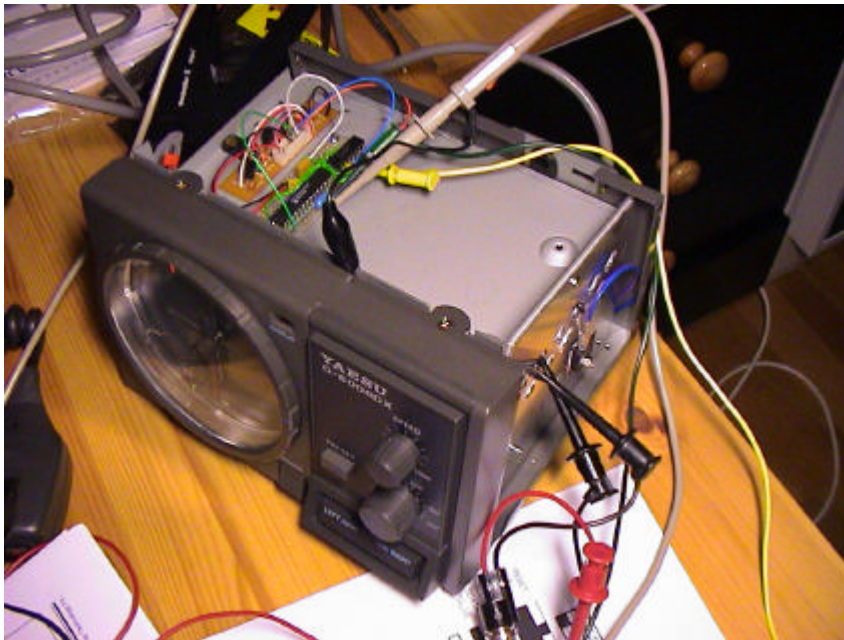
Remote site (antenna)

- Antenna/transverter house.
- Coax to radio house.
- Antenna rotor (YAESU).
- Transverter 1G3 (“indoor”).
- Transverter 10G (outdoor).
- Antenna about 12 m AGL.



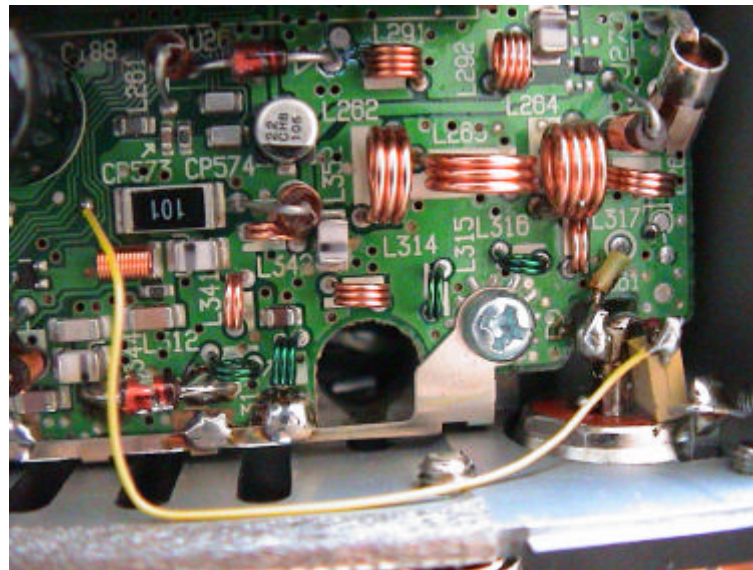
YAESU Rotor Control

- YAESU G-800SDX.
- Easy adding external control.
- LCB PIC controller.



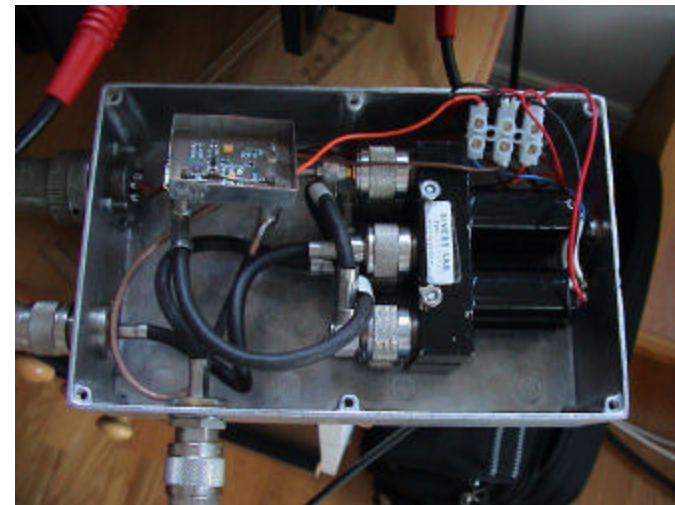
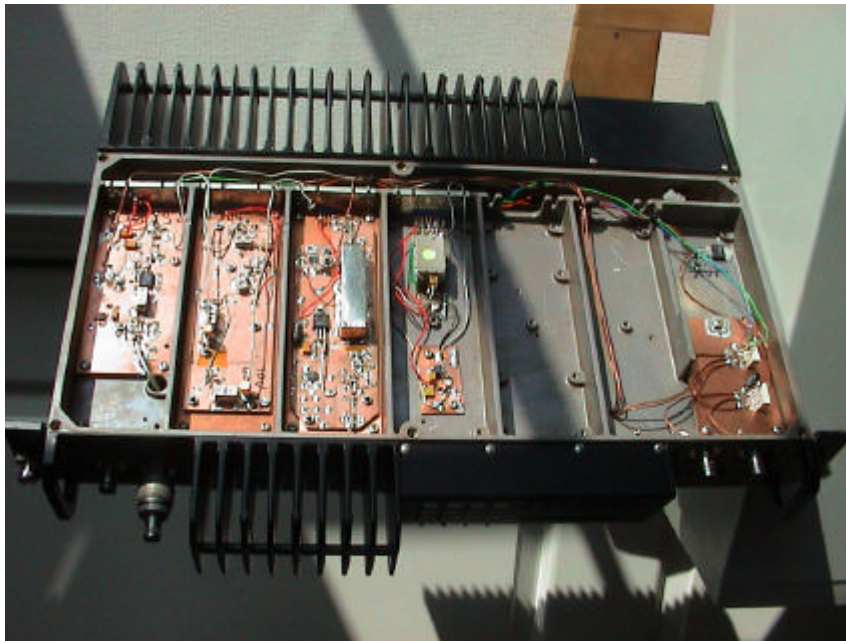
ICOM IC706G-MKII

- 144 MHz IF radio.
- Some other bands also.
- Detachable front panel!
- TX DC on 144 MHz output!



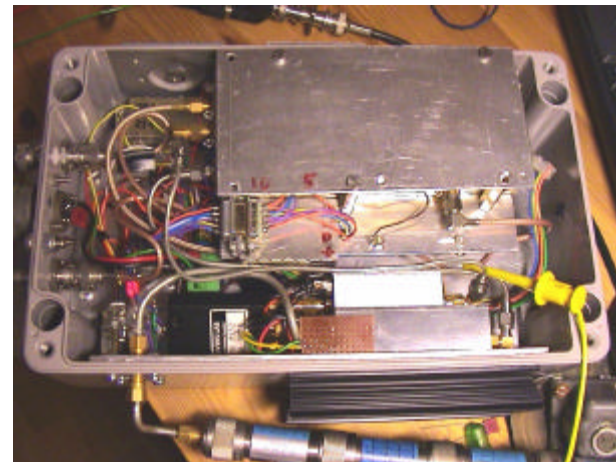
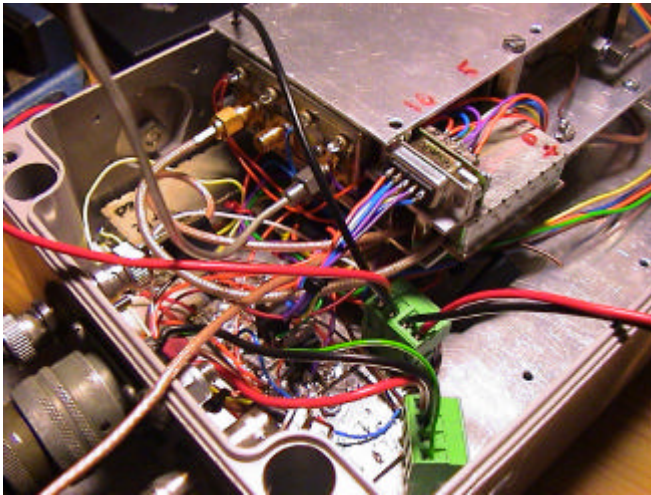
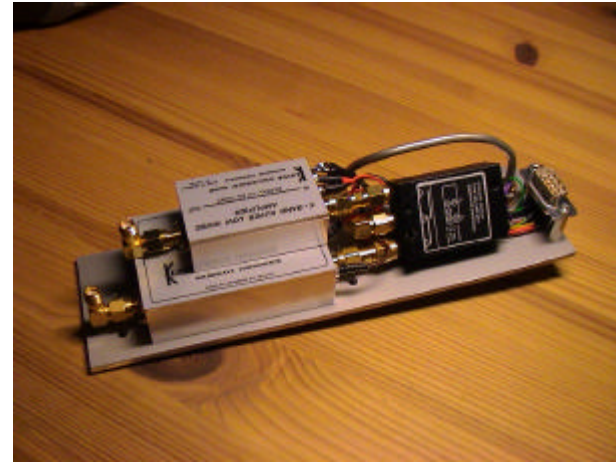
1G3 Station (ver2)

- IQC/PC transverter.
- Ericsson TUG 55W.
- Ericsson 1800 preamp.
- Ericsson 96 MHz LO.
- Ericsson 10MHz REF.
- LCB PIC controller.



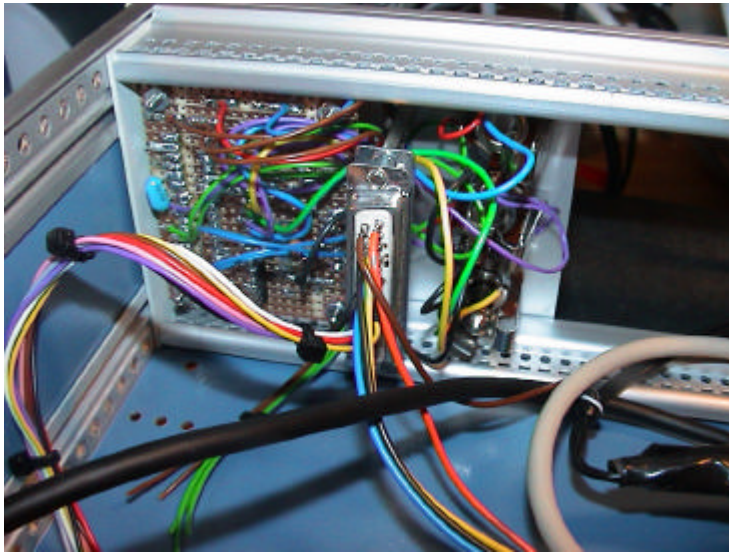
10G Station (ver3)

- DB6NT transverter.
- DB6NT PA 5W.
- DB6NT preamp.
- Ericsson 106.5 LO.
- R&S 10MHz REF.
- LCB PIC controller.



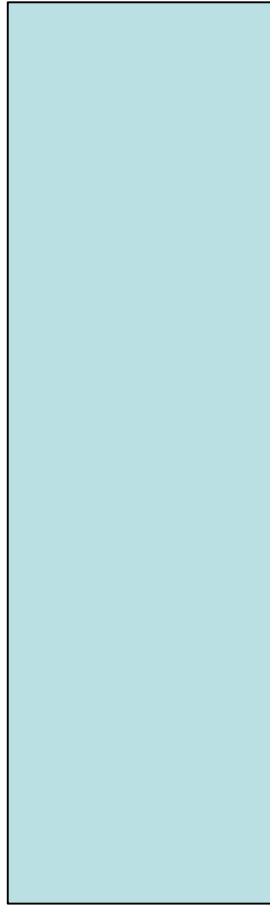
Remote Unit

- ICOM IC-706 front panel.
- USB hub.
- 4 USB-Serial converters.
- CW PIC unit.
- Audio interface (cw sidetone).



Home

Computer
Windows

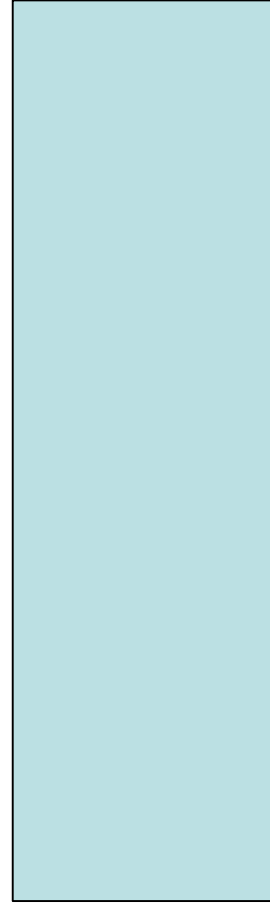


Internet (broadband/modem?)

A vertical double-headed arrow with black outlines, positioned between the two computer boxes. It points both upwards and downwards, indicating a bidirectional connection.

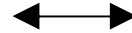
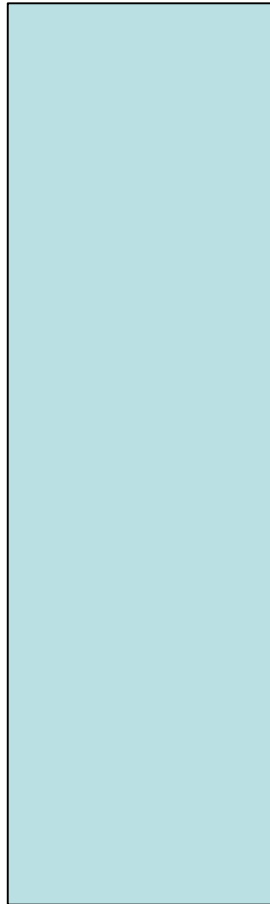
Site

Computer
Linux

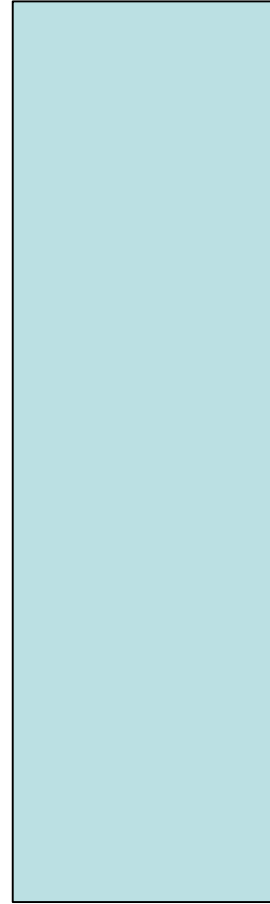


Home

Computer
Windows

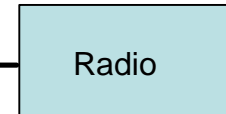
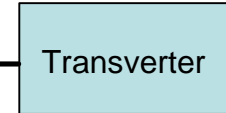


Computer
Linux



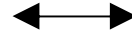
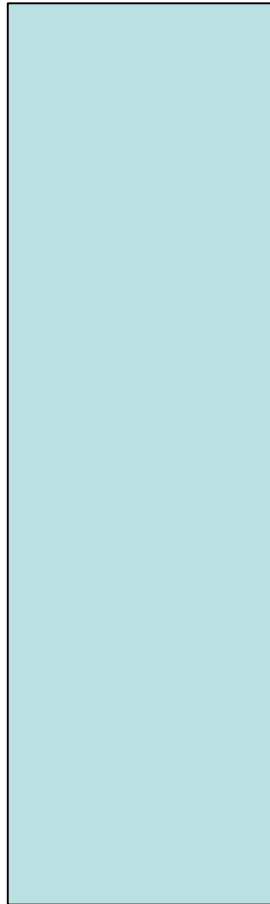
Site

ICOM BUS
COM



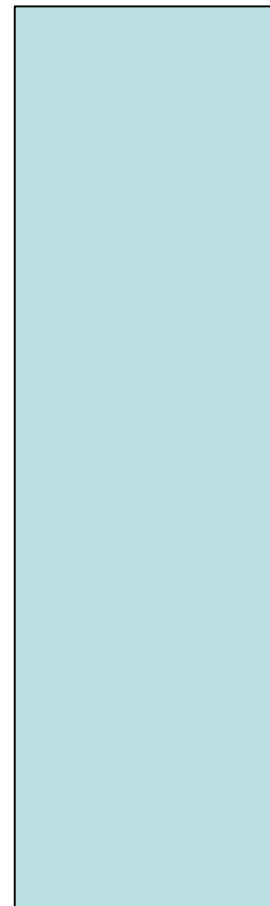
Home

Computer
Windows



Site

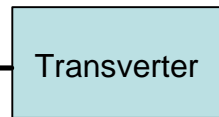
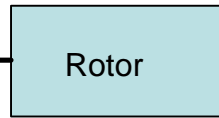
Computer
Linux



ICOM BUS

COM

Rotor

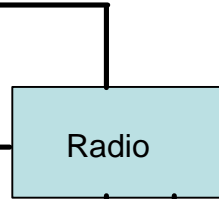


Transverter

COM

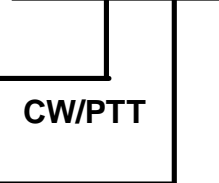
Front Panel

Radio



LPT

CW/PTT



Audio In/Out



Home

Computer
Windows



COM
COM

Radio Front

COM

CW PIC

COM



Site

Computer
Linux

ICOM BUS

COM

Rotor

Transverter

COM

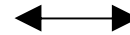
Front Panel

Radio

LPT

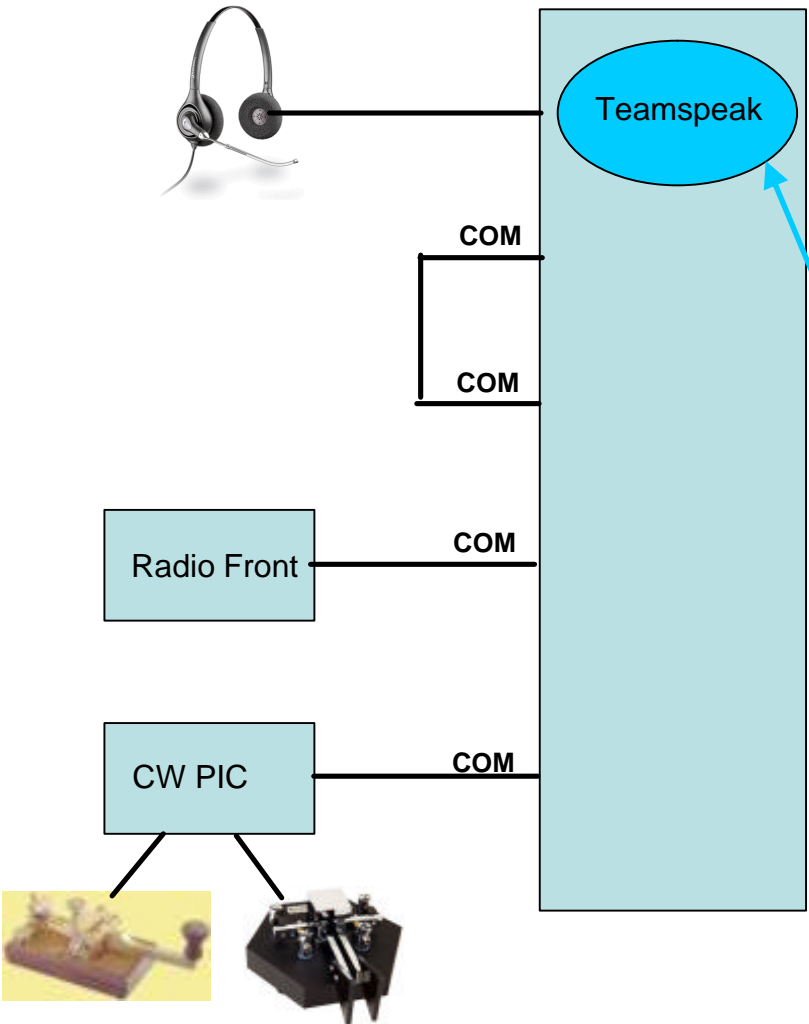
CW/PTT

Audio In/Out



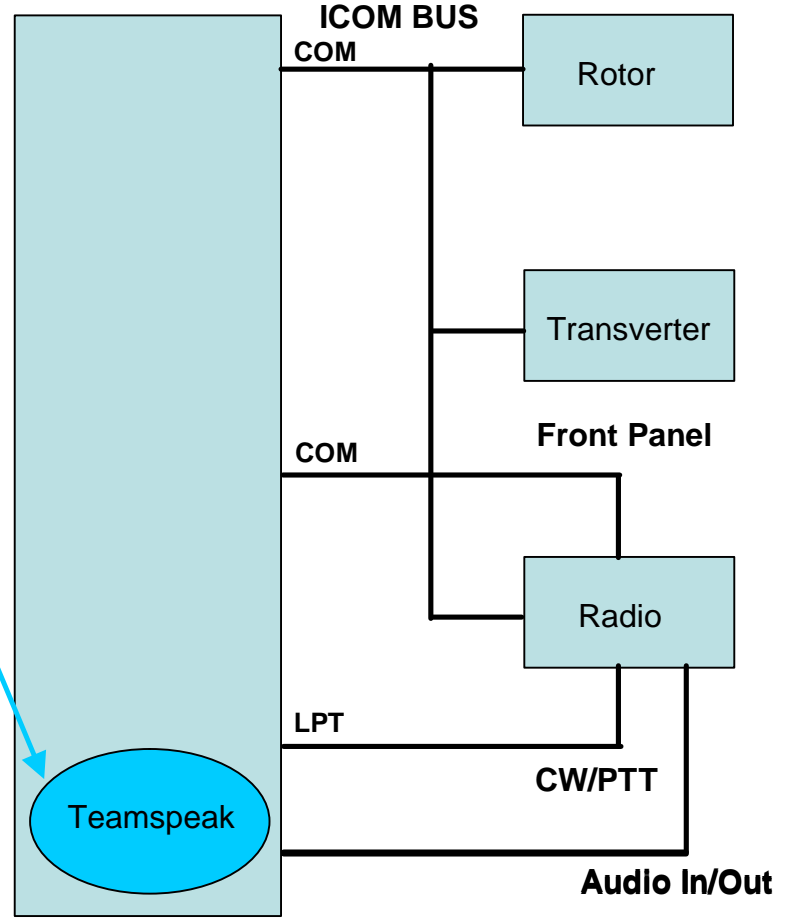
Home

Computer Windows



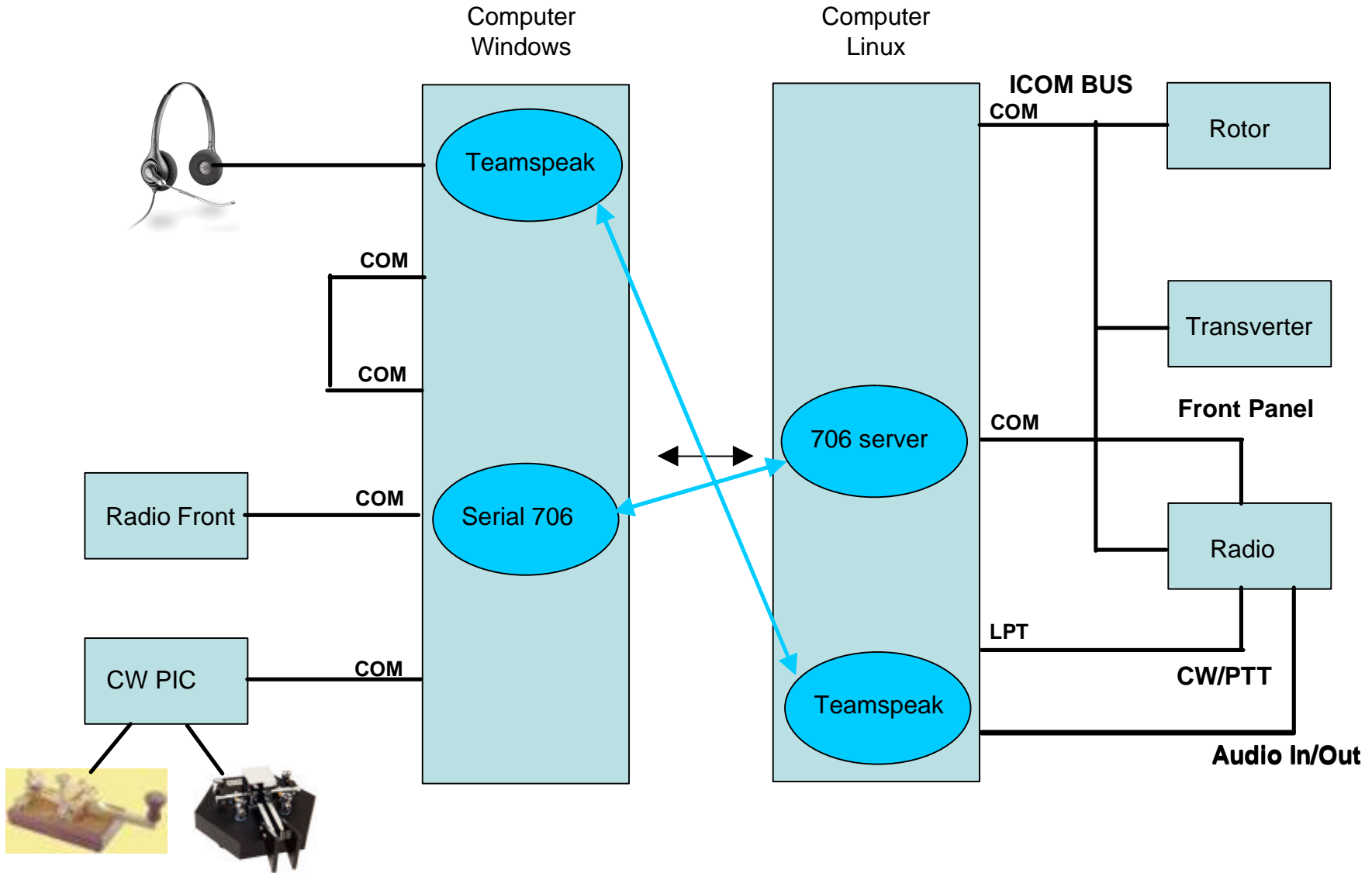
Site

Computer Linux



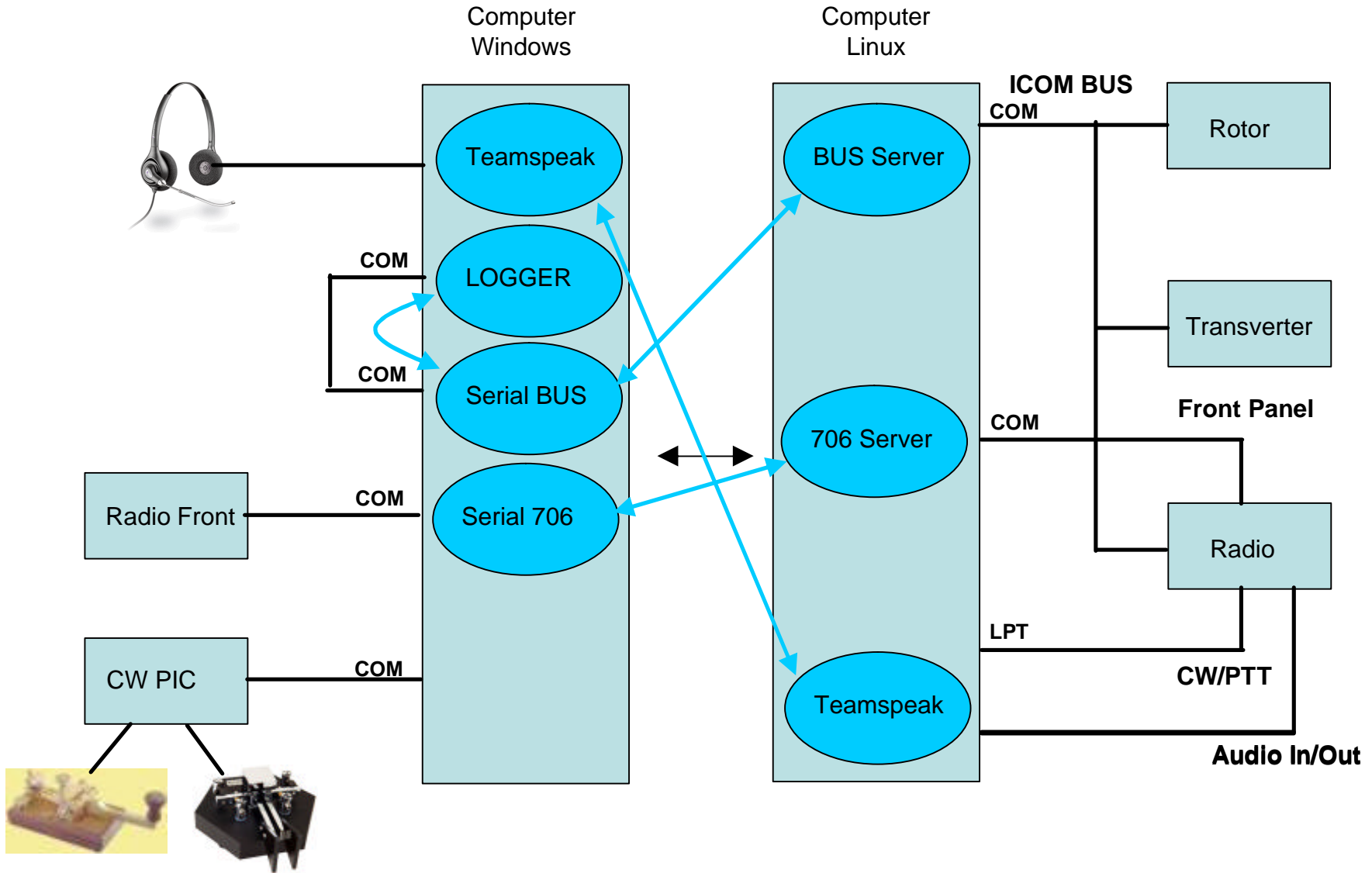
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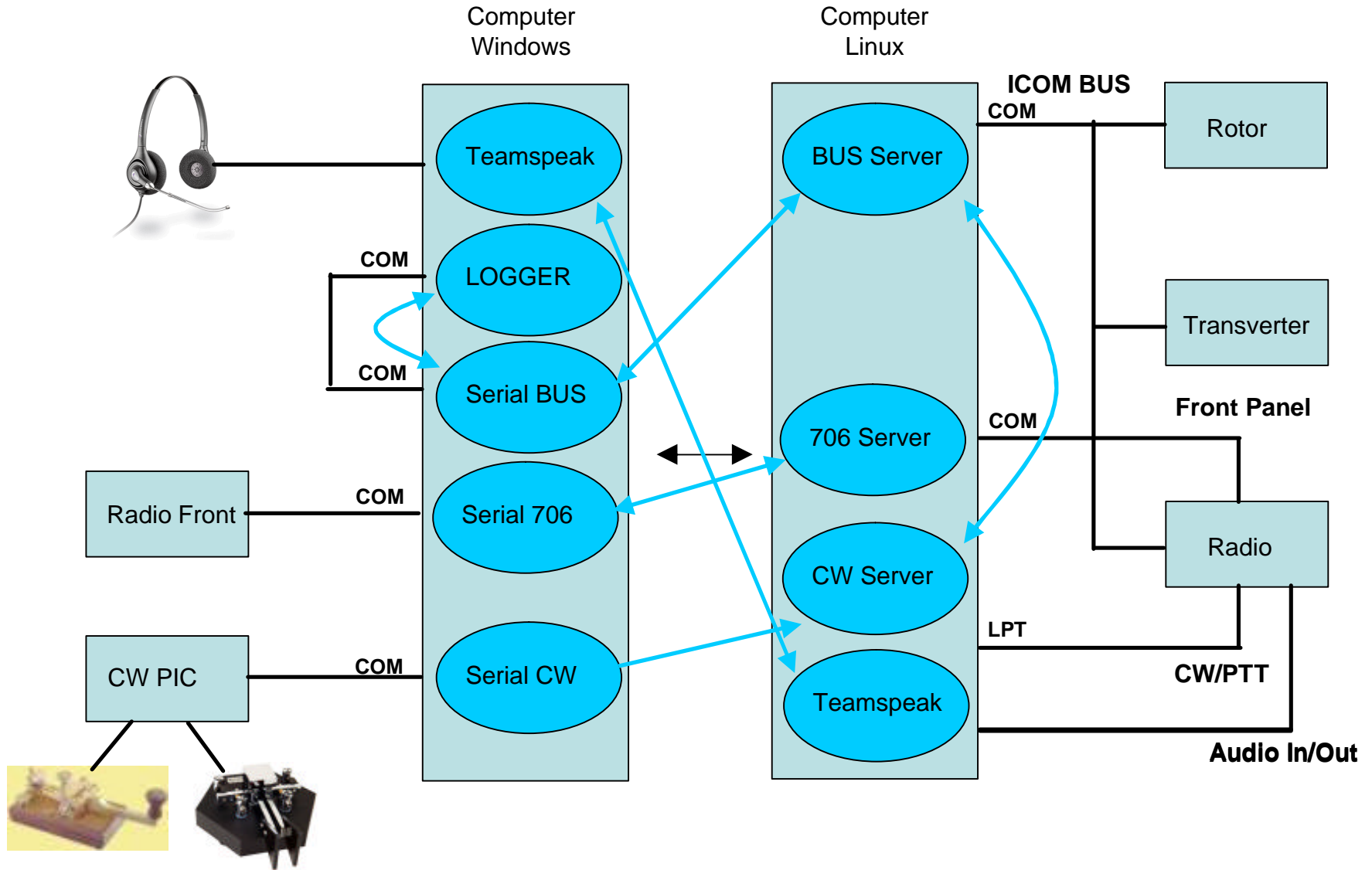
Home

Site



Home

Site



For more information see

<http://sm7lcb.shacknet.nu>

END

DEMO....