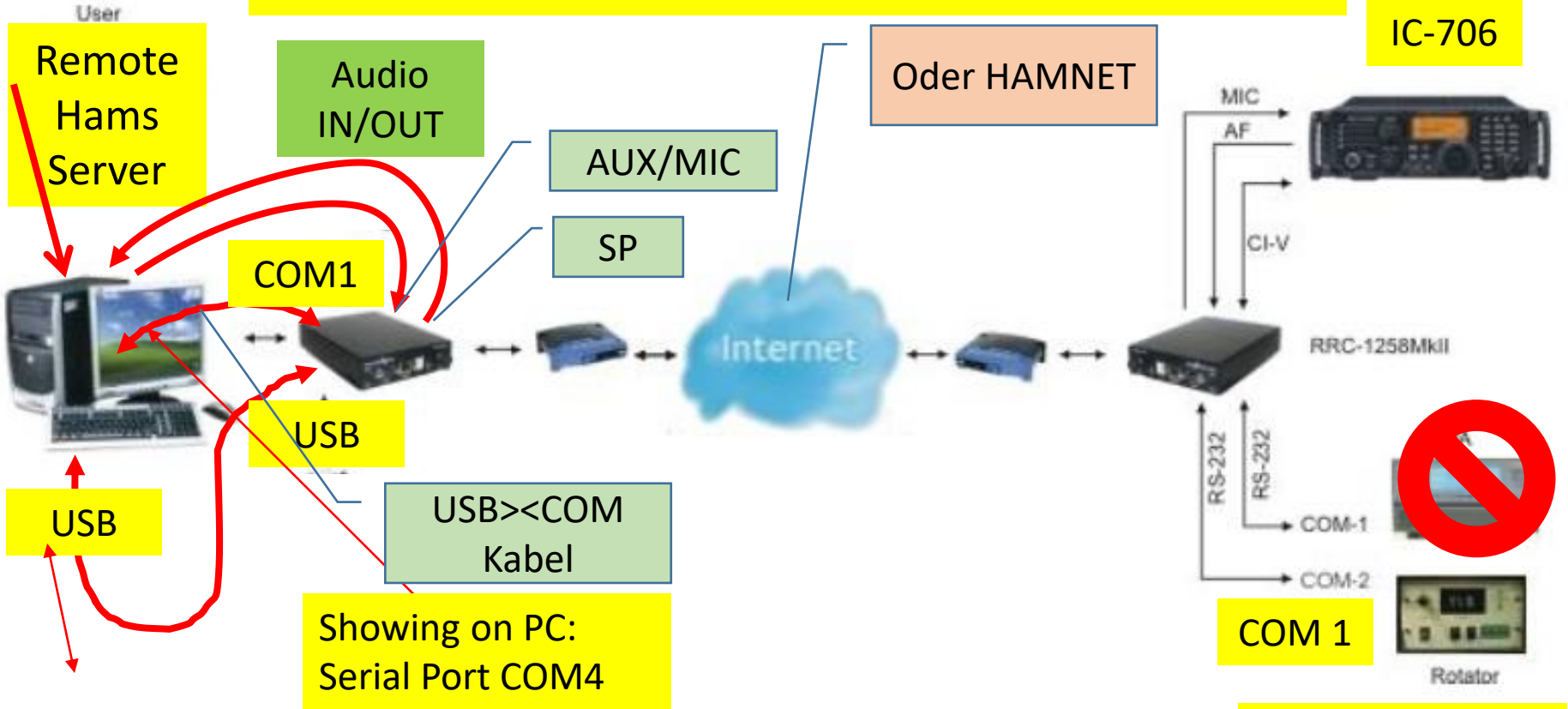


ICOM CI-V
General

Aktueller Test-SETUP mit
Control-Box <-> Radio Box
und RemoteHamsServer



- ⌚ ECP-Druckeranschluss (LPT1)
- ⌚ Kommunikationsanschluss (COM1)
- ⌚ Prolific USB-to-Serial Comm Port (COM3)
- ⌚ Prolific USB-to-Serial Comm Port (COM4)
- ⌚ RRC1258 COM0 (COM2)
- ⌚ RRC1258 COM1 (COM8)
- ⌚ RRC1258 COM2 (COM5)
- ⌚ RRC1258 COMExtra (COM6)

USB <-> COM
Adapter_Kabel
für CW-Tastung

ERC Control in
Yaesu
Rotorcontrol box

Bei diesem SETUP wird ein TRX via REMOTERIG B6xli mit einem PC verbunden auf welchem dann die Applikation RemoteHamsServer l6uft.

Die beiden REMOTERIG B6xli (**CTRL** beim PC mit RemoteHamsServer, und **RADIO** beim Router wo der TRX steht) stellen eine Verbindung via den DDNS Server bei MICROBIT her.

6ber diese Verbindungen werden alle Signale (Audio und Steuersignale) vom und zum TRX 6bertragen.

Beim **CTRL** B6xli muss man die entsprechenden Signale zum PC 6berf6hren.

Beim **RADIO** B6xli muss man die entsprechenden Signal zum TRX 6berf6hren.

(Dies ist pro Ger6tetyt spezifisch zu bauen gem6ss Anleitung MICROBIT

http://www.remoterig.com/wp/?page_id=362

Bei diesem Ansatz mit RemoteHamsServer muss jeder OM der teilnehmen will nur einem RemoteHamsClient installieren, und kann nach der Freischaltung den TRX und weitere Ger6te steuern. (Bei uns noch den Rotor bedienen)

<http://download.remotehams.com/>

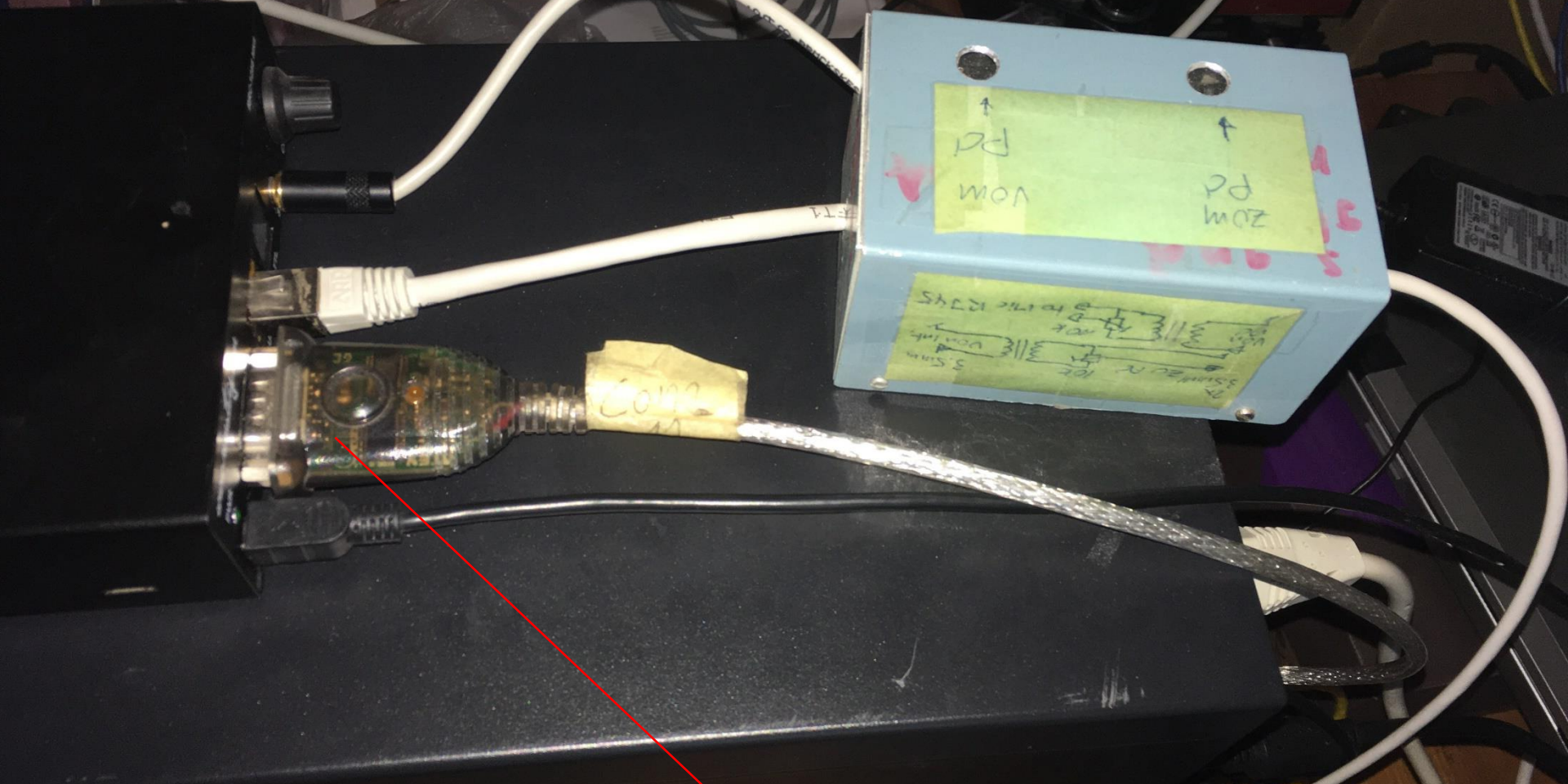
Es folgen nun die notwendigen Einstellungen bei den Router und den REMOTERIG B6xli.



Remoterig CTL B6xli

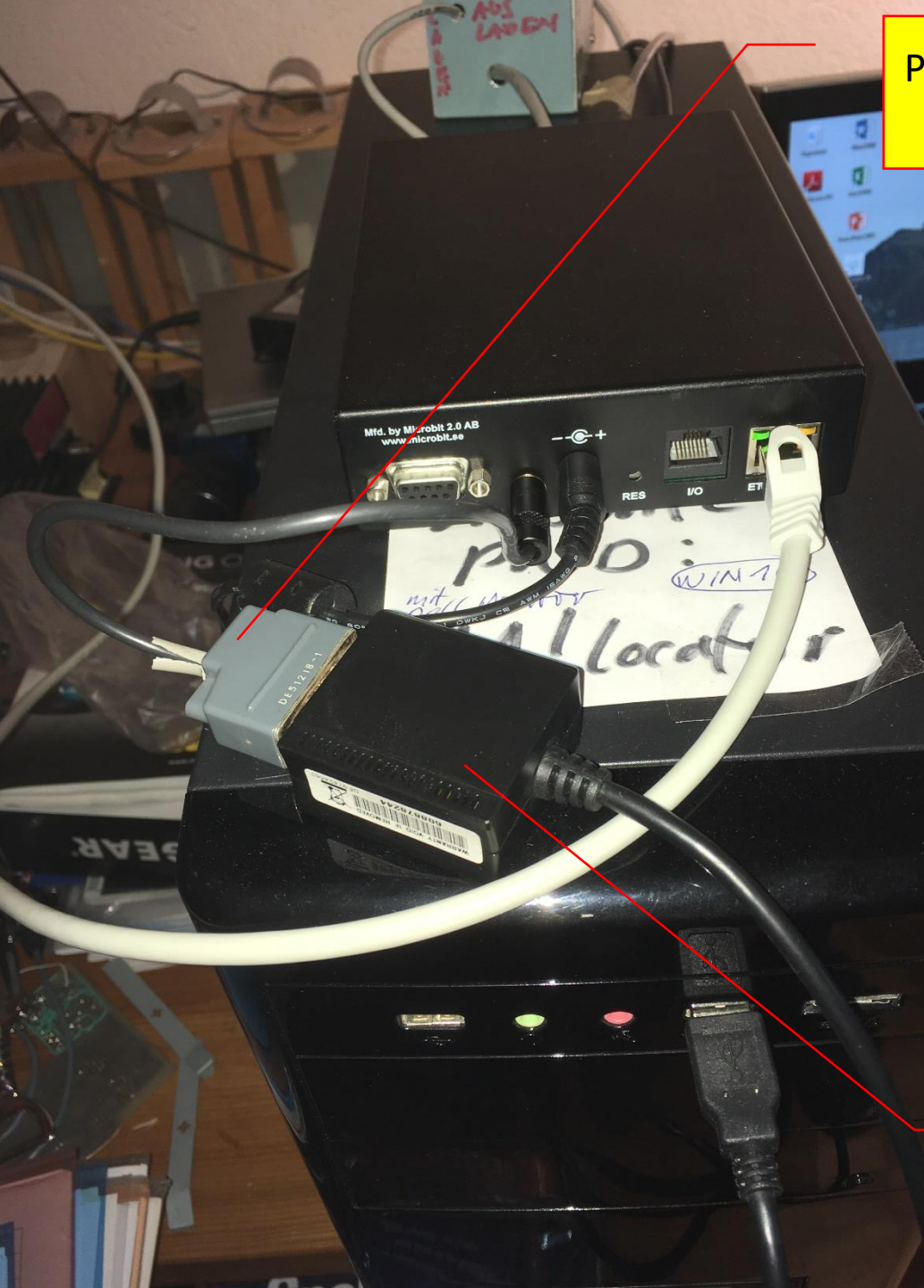
PC mit
RemoteHamsServer
applikation

Nf-Verbindungen mit Trafo CTRL B6xli zu PC

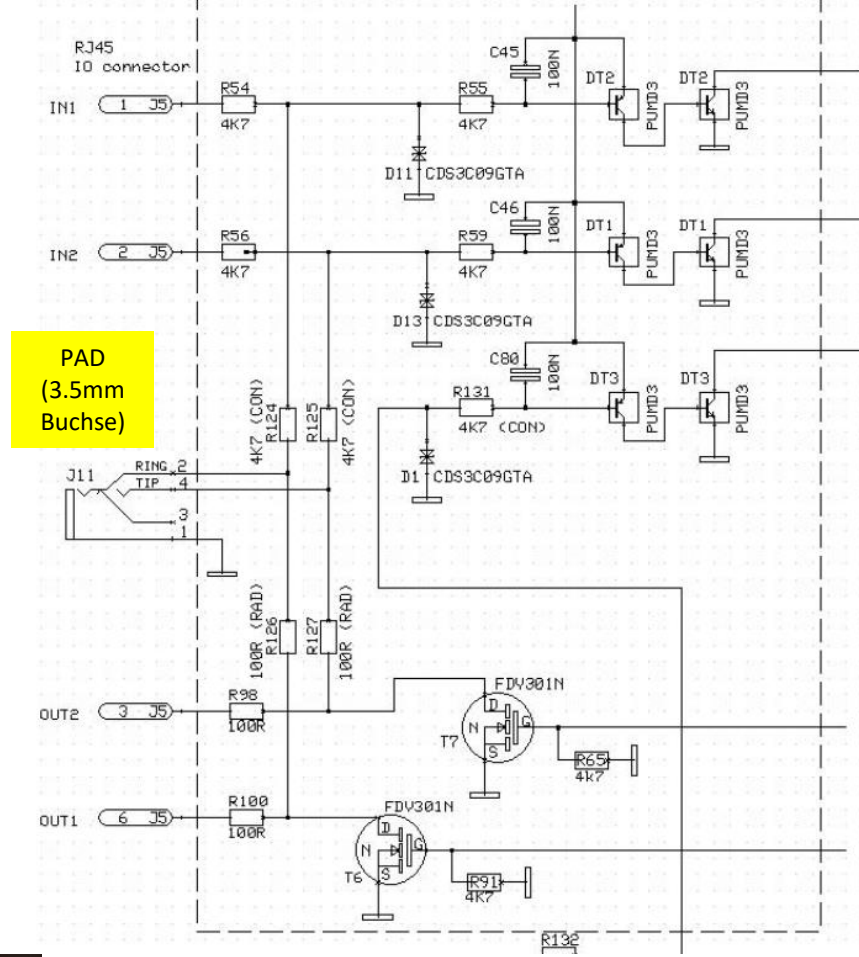


USB Adapter verbindet
COM1 des CTRL B6xli
mit PC

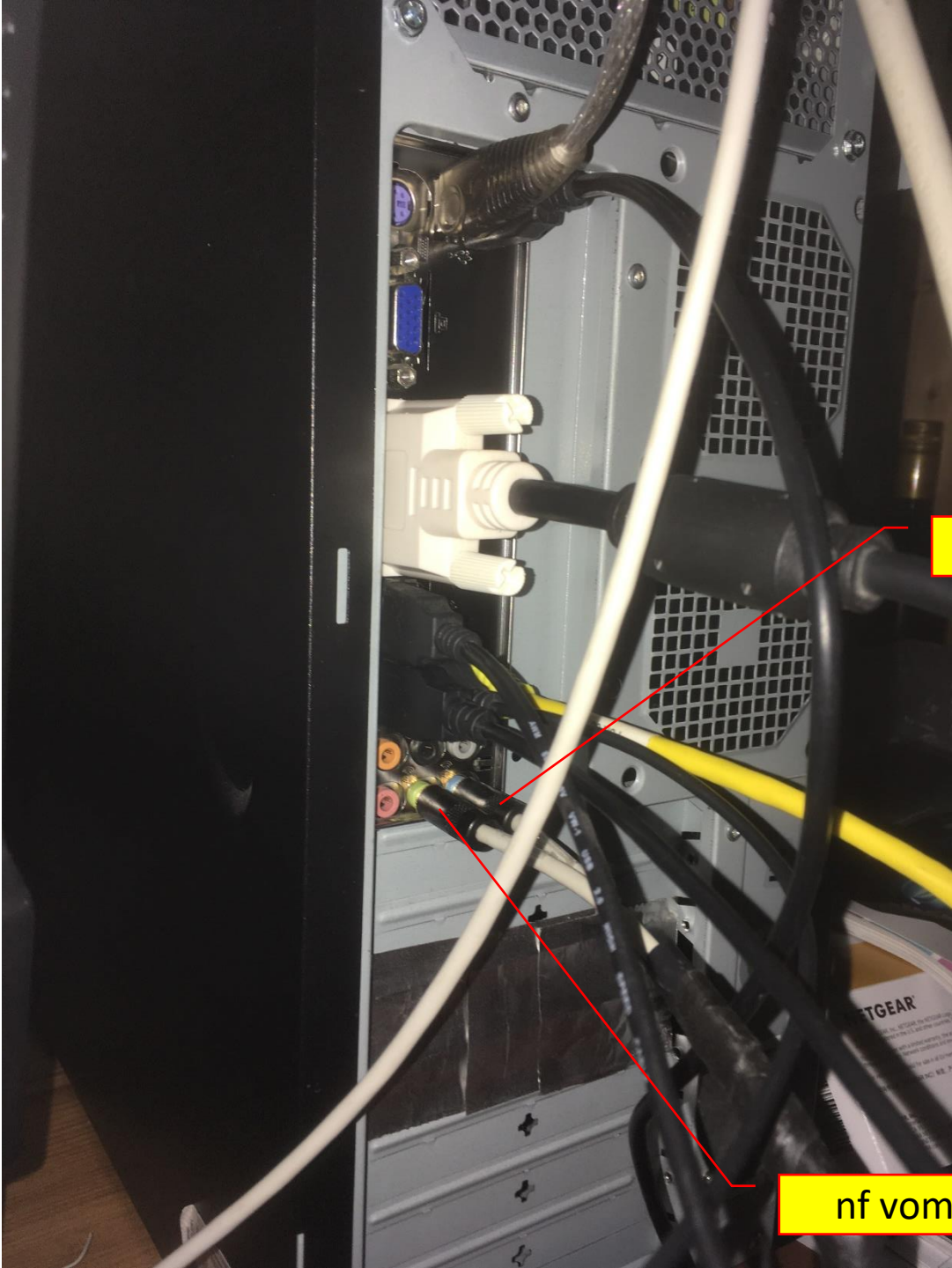
Pin 4 (DTR) auf Ring des 3.5mm Steckers. Pin 5 (gnd) auf GND des 3.5mm Steckers



I/O and PAD interface



USB Adapter verbindet COM3 des PC mit CTRL Bxli für die Übertragung der CW Tastung



nf zum PC

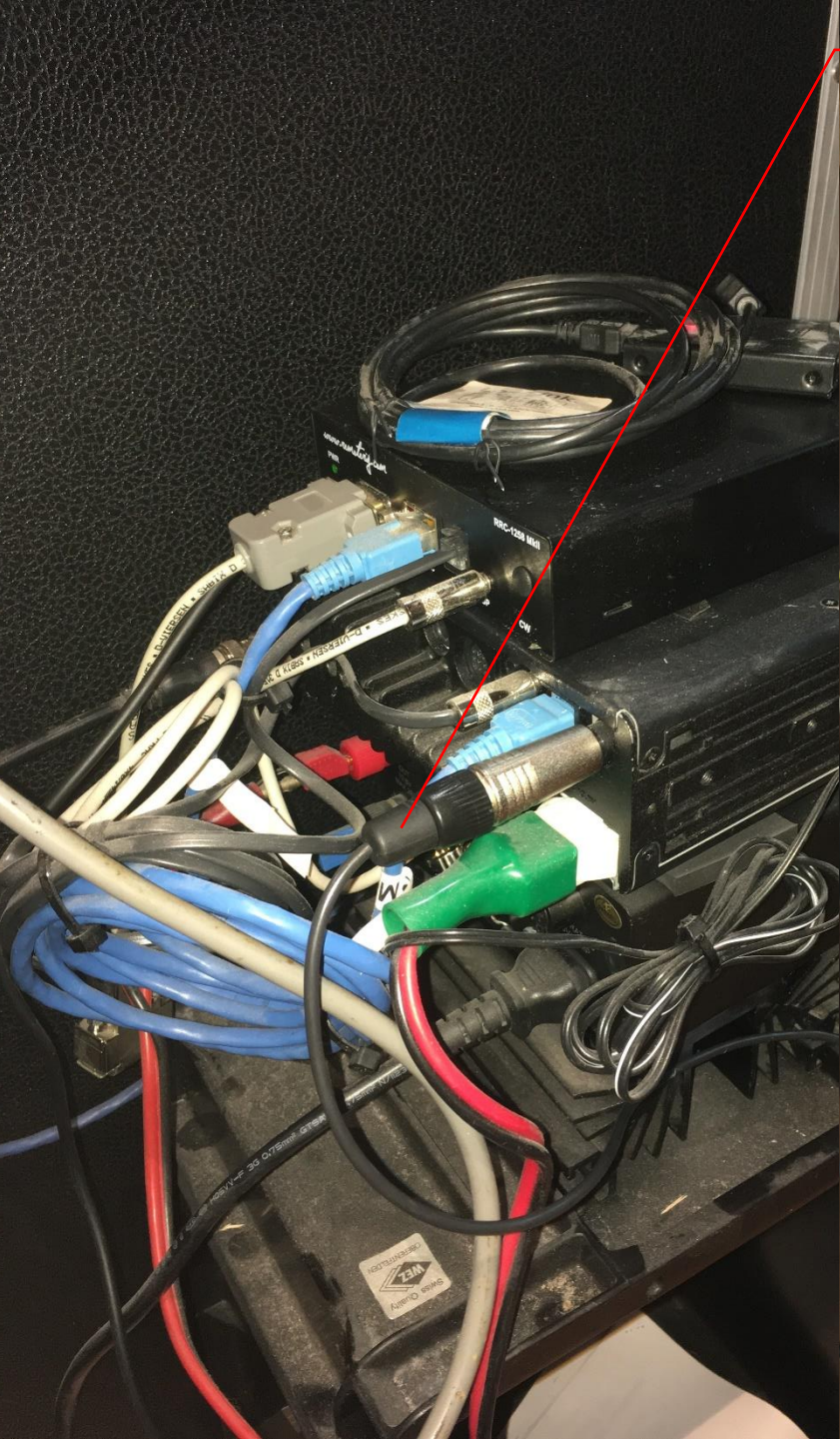
nf vom PC



Remoterig RADIO B6xli



Verkabelung IC-706 ><
RADIO BÖXLI



Ring des 3.5mm Steckers auf TIP des 6.3mm plugs

Ring des 3.5mm Steckers auf TIP des 6.3mm plugs
Für die CW-Tastung



7 SET MODE

Q4 CW PADDLE (CW only)

This item adjusts the CW paddle type. Four selections are available.

CW



The default is "n," normal.

- n : normal (for electronic keyer use)
- r : reverse (for electronic keyer use)
- buG : When using the electronic key, key down produces a "dash," releasing the key automatically produces a "dot(s)."
- oFF : Turns OFF the electronic keyer (for straight key use)
- ud : For using the microphone's [UP]/[DN] keys instead of the CW paddle.

Einstellung im IC706 so wählen



Rotorsteuergerät mit
eingebautem ERC-3D
Interface

- Übersicht
- Netzwerk
- Einstellungen
- Geräteleiste
- WLAN
- Telefonie
- Applikationen
- Internet-Box
- Energiesparen
- Diagnose

Expertenmodus Ein

Netzwerkeinstellungen verwalten

DE Logout

IP-Einstellungen Portweiterleitung DynDNS Firewall Statische Routen

<...> ctrlBox	00:1E:FD:01:81:02	192.168.1.138	
<...> RadioBox	00:1E:FD:01:80:A3	192.168.1.139	
Gerät auswählen			

DMZ-Funktion

Wenn Sie die DMZ-Funktion einschalten, kann das gewählte Gerät direkt aus dem Internet erreicht werden. Alle Ports werden an dieses Gerät weitergeleitet.

DMZ-Funktion aktivieren für Gerät

RadioBox
192.168.1.139

So einstellen auf dem Router wo das RadioBöxli angeschlossen ist.

Spanning-Tree-Protokoll (STP)

Spanning-Tree-Protokoll (STP) aktivieren

Abbrechen Speichern

- Meistbesucht
- Meistbesucht
- Erste Schritte
- Übersicht
- Netzwerk
- Einstellungen
- Geräteleiste
- WLAN
- Telefonie
- Applikationen
- Internet-Box
- Energiesparen
- Diagnose

Expertenmodus Ein

Netzwerkeinstellungen verwalten

IP-Einstellungen Portweiterleitung DynDNS Firewall Statische Routen

Automatische Portweiterleitung erlauben (UPnP IGD)

Automatische Portweiterleitung erlauben (UPnP IGD) ⓘ

So einstellen auf dem Router wo das RadioBöxli angeschlossen ist.

So einstellen auf dem Router wo das CTRLBöxli angeschlossen ist.

Portweiterleitungs-Regeln

Regel aktivieren	Protokoll	Gerät	Aktionen
<input checked="" type="checkbox"/> RadioBox Eingangs-Port: 80	TCP/UDP	RadioBox Ziel-Port: 80	
<input checked="" type="checkbox"/> hamsvoice Eingangs-Port: 843	TCP/UDP	PeterFlury-PC Ziel-Port: 843	
<input checked="" type="checkbox"/> hams Eingangs-Port: 4524-4525	TCP/UDP	PeterFlury-PC Ziel-Port: 4524-4525	
<input checked="" type="checkbox"/> RemoteRig Eingangs-Port: 13000-13002	TCP/UDP	RadioBox Ziel-Port: 13000-13002	
Automatisch erstellte Portweiterleitungen durch UPnP IGD:			
<input checked="" type="checkbox"/> upnpclient:443 Eingangs-Port: 52092	TCP	synology_ar1 Ziel-Port: 443	



- Übersicht
- Netzwerk
 - Einstellungen
 - Geräteleiste
- WLAN
- Telefonie
- Applikationen
- Internet-Box
- Energiesparen
- Diagnose

Expertenmodus Ein

Netzwerkeinstellungen verwalten

DE ▾

Logout

- IP-Einstellungen
- Portweiterleitung
- DynDNS
- Firewall**
- Statische Routen

Firewall-Einstellungen

Mit der Firewall schützen Sie Ihr Netzwerk vor unbefugtem Zugriff.

Firewall-Modus festlegen

- Deaktiviert ⓘ
Alle eingehenden und ausgehenden IPv6 Verbindungen werden zugelassen. IPv4 Datenverkehr darf nur vom Heimnetz in Richtung Internet initiiert werden.
- Standard ⓘ
Alle eingehenden und ausgehenden IPv6 Verbindungen werden zugelassen - mit Ausnahme einer Gruppe von Standardprotokollen. IPv4 Datenverkehr darf nur vom Heimnetz in Richtung Internet initiiert werden.
- Strikt ⓘ
Datenverkehr darf nur vom Heimnetz in Richtung Internet initiiert werden. Alle eingehenden Verbindungen werden blockiert. Davon ausgenommen ist eine Gruppe von Standardprotokollen.
- Benutzerdefiniert ⓘ
Sie können die Regeln für eingehende und ausgehende Verbindungen selbst definieren.

Konfigurieren

Abbrechen

Speichern



- Übersicht
- Netzwerk
 - Einstellungen
 - Geräteleiste
- WLAN
- Telefonie
- Applikationen
- Internet-Box
- Energiesparen
- Diagnose

Expertenmodus Ein

Netzwerkeinstellungen verwalten

DE

Logout

- IP-Einstellungen
- Portweiterleitung
- DynDNS
- Firewall
- Statische Routen

Statische Routen

Mit statischen Routen können Experten Nutzer einen zusätzlichen Router an der Internet-Box betreiben. Damit die Internet-Box das Netzwerk des zusätzlichen Routers kennt, muss einmalig eine statische Route eingetragen werden. Somit wird sichergestellt, dass der Datenverkehr an das zusätzliche Netzwerk weitergeleitet wird.

Ziel-Netzwerk ⓘ	Subnetzmaske ⓘ	Weiterleiten zu Gerät ⓘ	Aktionen
<input type="text" value="z.B. 192.168.2.0"/>	<input type="text" value="z.B. 255.255.255.0"/>	<input type="text" value="Gerät auswählen"/>	

Abbrechen

Speichern

RRC-1258 MkII: Control [Control]

- microbit**
- Info
- Status
- Wi-Fi scan

- Profiles

- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)

- Application upgrade
- Bootloader upgrade

- Restart device

Info

Name	Value
Company	Microbit
Product	1258
PID	0
Version	4
HW	5
Software	2.91
Bootloader	<= 1.7
Compiler	4.6.2
Build	Jun 16 2016 07:13:13
ROM/RAM	485636/44292
ETH-RAM	3000 (max 3kB)
USB-RAM	16376 (max 16kB)
Battery-RAM	4
ResetSrc	0 [3]
Last WD Reset	4003328864
Uptime	0 Days, 5 Hours, 23 Mins, 59 Secs

Serial number	2658
MAC address	00:1e:fd:01:81:02
IP address	192.168.1.138
Netmask	255.255.255.0
Gateway	192.168.1.1
DNS	192.168.1.1
Wi-Fi network	module not present

Log in

RRC-1258 MkII: Control [Control]



- Info
- Status
- Wi-Fi scan
- Profiles
- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings
- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)
- Application upgrade
- Bootloader upgrade
- Restart device
- Log in

Status

Disconnect

Name	Value
P5.4	ON
Radio	OFF
Connection status	OK
SIP status	Connected/transferring
Last SIP error	None
RTP status	Excellent(60)
UDP cmd status	OK(33)
SIP command timeout	0
Rx Jitter buffer size	8
Rx Jitter delay	3
Dual Rx	0
Current audio packet size	20
Current audio quality	2 - Linear 16 bits 8 kHz
SIP Out port	13000
SIP In port	13000
Audio Out port	13001
Audio In port	13001
Command Out port	13002
Command In port	13002
External SIP In port	13000
External Audio In port	13001
External Cmd In port	13002
Other party	178.193.153.230
Input 0	High
Input 1	High
Input 2	High
Output 0	High
Output 1	Low
Output 2	Low
DNS status	OK, d1c4t2qm.ddns.remoterig.com = 178.193.153.230
Active profile	Default
PTT status	OFF
Common network settings	No
System messages	No

Status **CTRL Box.**
Ist verbunden

RRC-1258 MkII: Control [Control]



- Info
- Status
- Wi-Fi scan
- Profiles
- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)
- Application upgrade
- Bootloader upgrade

Restart device

Log in

IP settings

Unit ID (Banner)

DHCP

IP

Netmask

Gateway

Dns server

Eth-type

IP-interface

Web page user

Web page pwd

Web page user(saving)

Web page pwd(saving)

Settings help

Status **CTRL Box.**
Ist verbunden

Dies geht ob DHCP oder fix wie hier!

RRC-1258 MkII: Control [Control]

microbit

Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Radio settings

Program mode: 1 - ICOM CI-V

Sip password: ••••• Show

Sip contact(Radio RRC IP/hostname): d1c4t2qm.ddns.remoterig.com

Auto connect: Yes

Audio quality: 2 - Linear 16 bits 8 kHz

Codec out gain: 255

Codec inp gain: 18

Codec inp HPF Hz: 163

Codec inp preamp: Yes

COM0 baudrate: 19200

COM0 data bits: 8

COM0 stop bits: 1

COM0 parity: 0 - Off

COM0 Program mode 3 char timeout: 2

Use USB Com Port as COM0: Yes

Submit

Settings help

Baudrate	Radio
9600	IC-R2500
19200	IC-706, FT-8800/8900
38400	IC-7100, IC-2820, DX-SR8
48000	FTM-350
57600	TS480, TS2000, TM-D710
64000	FT-100, FT-857



192.168.1.138

Meistbesucht Meistbesucht Erste Schritte

RRC-1258 MkII: Control [Control]



Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Serial settings

COM1 mode	Mode-3, char-timeout
COM1 baudrate	9600
COM1 data bits	8
COM1 stop bits	1
COM1 parity	0 - Off
COM1 rts/cts	No
COM1 terminator (hex)	00
Use USB Com Port as COM1	No
COM2 mode	Inactive
COM2 baudrate	19200
COM2 data bits	8
COM2 stop bits	1
COM2 parity	0 - Off
COM2 terminator (hex)	00
Use USB Com Port as COM2	No
COM3(Extra) mode (USB-COMFSK)	Inactive

Submit


Settings help



192.168.1.138

Meistbesucht Meistbesucht Erste Schritte

RRC-1258 MkII: Control [Control]



Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Advanced settings

UDP cmd port	<input type="text" value="13002"/>
UDP audio port	<input type="text" value="13001"/>
SIP port	<input type="text" value="13000"/>
Web server port	<input type="text" value="80"/>
Telnet server port	<input type="text" value="23"/>
Rx jitter buffer size	<input type="text" value="8"/>
Rx jitter delay	<input type="text" value="3"/>
Audio packet size (ms)	<input type="text" value="20"/>
RTP tx mode	<input type="text" value="Normal"/>
Disable audio tones	<input type="text" value="No"/>
Audio tones -db [70-0]	<input type="text" value="30"/>
IP identification (morse)	<input type="text" value="No"/>
Full duplex	<input type="text" value="No"/>
PTT-off mute delay	<input type="text" value="0"/>
IP Type-of-Service (dec)	<input type="text" value="0"/>
UDP cmd min-data-size	<input type="text" value="0"/>
Use common network settings	<input type="text" value="No"/>

Settings help

RRC-1258 MkII: Control [Control]

microbit

Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Dynamic DNS settings

No settings available for this device

Settings help

RRC-1258 MkII: Control [Control]



- Info
- Status
- Wi-Fi scan

- Profiles

- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)

- Application upgrade
- Bootloader upgrade

- Restart device

- Log in

Keyer settings

Enable	<input type="text" value="No"/>
Iambic	<input type="text" value="Old type (squeeze keyer)"/>
Paddle reverse	<input type="text" value="No"/>
Weight [25-40]	<input type="text" value="30"/>
Side tone hz [0,300-1500]	<input type="text" value="800"/>
Side tone -db [50-0]	<input type="text" value="20"/>
Lf delay ms [0-500]	<input type="text" value="0"/>
Key delay ms [0-250]	<input type="text" value="50"/>
Speed pot min wpm [5-99]	<input type="text" value="10"/>
Speed pot max wpm [5-99]	<input type="text" value="40"/>

Settings help

RRC-1258 MkII: Control [Control]

microbit

Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

IO settings

- IN0 mode
- OUT0 mode
- OUT1 mode
- OUT2 mode
- USB RTS as PTT
- USB DTR as CW

Submit

Settings help

RRC-1258 MkII: Control [Control]

- microbit**
- Info
- Status
- Wi-Fi scan

- Profiles

- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)

- Application upgrade
- Bootloader upgrade

- Restart device

- Log in

Ping settings (watchdog)

No settings available for this device

Settings help

RRC-1258 MkII: Control [Control]



- Info
- Status
- Wi-Fi scan
- Profiles
- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings**
- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)
- Application upgrade
- Bootloader upgrade
- Restart device
- Log in

Wi-Fi settings

1: Name (SSID)

1: Password (PSK)

2: Name (SSID)

2: Password (PSK)

3: Name (SSID)

3: Password (PSK)

4: Name (SSID)

4: Password (PSK)

5: Name (SSID)

5: Password (PSK)

6: Name (SSID)

6: Password (PSK)

7: Name (SSID)

7: Password (PSK)

8: Name (SSID)

8: Password (PSK)

Settings help

RRC-1258 MkII: Radio [Radio]



- Info
- Status
- Wi-Fi scan

- Profiles

- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)

- Application upgrade
- Bootloader upgrade

- Restart device

- Log in

Info

Name	Value
Company	Microbit
Product	1258
PID	0
Version	4
HW	5
Software	2.91
Bootloader	<= 1.7
Compiler	4.6.2
Build	Jun 16 2016 07:13:13
ROM/RAM	485636/44292
ETH-RAM	3000 (max 3kB)
USB-RAM	16376 (max 16kB)
Battery-RAM	4
ResetSrc	0 [3]
Last WD Reset	261204518
Uptime	0 Days, 5 Hours, 25 Mins, 53 Secs
Serial number	2563
MAC address	00:1e:fd:01:80:a3
IP address	192.168.1.139
Netmask	255.255.255.0
Gateway	192.168.1.1
DNS	192.168.1.1
Wi-Fi network	module not present

RRC-1258 MkII: Radio [Radio]



- Info
- Status
- Wi-Fi scan

- Profiles

- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)

- Application upgrade
- Bootloader upgrade

- Restart device

- Log in

Status

Disconnect

Name	Value
P5.2	ON
Connection status	OK
SIP status	Connected/transferring
Last SIP error	None
RTP status	Excellent(59)
UDP cmd status	OK(41)
SIP command timeout	0
Rx Jitter buffer size	8
Rx Jitter delay	3
Dual Rx	0
Current audio packet size	40
Current audio quality	2 - Linear 16 bits 8 kHz
External IP	178.193.153.230
SIP Out port	13000
SIP In port	13000
Audio Out port	13001
Audio In port	13001
Command Out port	1024
Command In port	13002
External SIP In port	13000
External Audio In port	13001
External Cmd In port	13002
Other party	178.193.153.230
Other party(mac)	00:1e:fd:01:81:02
Input 1	High
Input 2	High
Output 0	Low
Output 1	Low
Output 2	Low
Dynamic DNS status	OK
Ping status (watchdog)	Off
DNS status	OK, remoterig.com = 213.180.92.125
Active profile	Default
PTT status	OFF
Antenna-Switch (IP)	not connected
Common network settings	No
System messages	No

Status **Radio Box.**
Ist verbunden

RRC-1258 MkII: Radio [Radio]



- Info
- Status
- Wi-Fi scan

- Profiles

- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)

- Application upgrade
- Bootloader upgrade

- Restart device

- Log in

IP settings

Unit ID (Banner)	<input type="text" value="Radio"/>
DHCP	<input type="text" value="No"/>
IP	<input type="text" value="192.168.1.139"/>
Netmask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.1.1"/>
Dns server	<input type="text" value="192.168.1.1"/>
Eth-type	<input type="text" value="100HDX"/>
IP-interface	<input type="text" value="Auto, prefer Ethernet"/>
Web page user	<input type="text" value="rrc1258-2563"/>
Web page pwd	<input type="password" value="••••••"/> <input type="button" value="Show"/>
Web page user(saving)	<input type="text"/>
Web page pwd(saving)	<input type="password"/> <input type="button" value="Show"/>
<input type="button" value="Submit"/>	

Settings help

Status **Radio Box.**
Ist verbunden

Dies geht nur bei fixer IP wie hier!

Networks and Firewalls

One of the major obstacles when trying to remotely control something is the fact that the Internet Service Provider (ISP) forces us to use dynamic IP addresses. We can never know, from time to time, which IP address our modem / firewall / router has on its outside interface (the IP address you will try to connect to). Most people use NAT routers that translates IP addresses on the inside (your little LAN) to one common IP address on the outside using port conversion.

To be able to stream audio and at the same time transfer CAT / CI-V commands or panel-toradio communications' we need to know which IP port numbers are used for each service.

There are some different techniques to fix this.

At the operator end (Control-RRC) there is normally OK just to use DHCP for the own IPsettings. For the Sip contact parameter you enter the public fixed IP address or Dynamic DNS-name to the router at the radio site.

At the radio end (Radio-RRC) the router must be configured so that port 13000, 13001, 13002 and 80 (default settings) are directed to the Radio-RRC which should have a static IP address. The easy way to get connected is to set the RRC IP address as DMZ server in the router. This makes it possible to connect to all services (SIP, audio and control) as well as the web and telnet interfaces without further configuration. If you run a web server at the radio site you need to change the webserver port from 80 to something else, for example 8000. Port 80 can also be blocked by the ISP. If you are using port forwarding you have to configure the router in a way that every service forwards packets to the right host on the inside.

RRC-1258 MkII: Radio [Radio]

- microbit**
- Info
- Status
- Wi-Fi scan

- Profiles

- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings

- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)

- Application upgrade
- Bootloader upgrade

- Restart device

- Log in

Radio settings

Program mode

Sip password

Audio quality

Codec out gain

Codec inp gain

Codec inp HPF Hz

Codec inp attenuation

COM0 baudrate

COM0 data bits

COM0 stop bits

COM0 parity

COM0 Program mode 3 char timeout

Settings help

Baudrate	Radio
9600	IC-R2500
19200	IC-706, FT-8800/8900
38400	IC-7100, IC-2820, DX-SR8
48000	FTM-350
57600	TS480, TS2000, TM-D710
64000	FT-100, FT-857



192.168.1.139

Creative Ensoniq Audio P
Borrow, and Streaming : l

Meistbesucht Meistbesucht Erste Schritte

RRC-1258 MkII: Radio [Radio]



- Info
- Status
- Wi-Fi scan
- Profiles
- IP settings
- Radio settings
- Serial settings
- Advanced settings
- Dynamic DNS settings
- Keyer settings
- IO settings
- Ping settings
- Wi-Fi settings
- Export settings(HTML)
- Export settings(bin)
- Import settings(bin)
- Application upgrade
- Bootloader upgrade
- Restart device

Log in

Serial settings

COM1 mode

COM1 baudrate

COM1 data bits

COM1 stop bits

COM1 parity

COM1 rts/cts

COM1 terminator (hex)

COM2 mode

COM2 baudrate

COM2 data bits

COM2 stop bits

COM2 parity

COM2 terminator (hex)

Submit

Settings help



192.168.1.139

Meistbesucht Meistbesucht Erste Schritte

RRC-1258 MkII: Radio [Radio]

microbit

Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Advanced settings

- UDP cmd port
- UDP audio port
- SIP port
- Web server port
- Telnet server port
- Rx jitter buffer size ▾
- Rx jitter delay ▾
- Audio packet size (ms) ▾
- RTP tx mode ▾
- IP Type-of-Service (dec)
- Yaesu power-on/off ▾
- UDP antenna-switch port
- UDP cmd min-data-size
- Use common network settings ▾

Submit

Settings help

RRC-1258 MkII: Radio [Radio]

microbit

Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Dynamic DNS settings

Check interval:

DDNS Host name:

Own host name:

Username:

Password:

Settings help

Note:

When 'ddns.remoterig.com' is selected the following parameters are self-generated during 'Apply changes':

- Own host name
- Username
- Password

RRC-1258 MkII: Radio [Radio]

microbit

Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Keyer settings

PTT activated by Keyer ▾

PTT tail delay ms [0-999]

Submit

Settings help

RRC-1258 MkII: Radio [Radio]

microbit

Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Ping settings (watchdog)

Enable ping watchdog

IP address to ping

Ping interval (seconds)

Startup delay (seconds)

Failure count to reboot

Submit

Settings help

Startup delay must be greather than 300 seconds if reboot is enabled.

RRC-1258 MkII: Radio [Radio]



Info
Status
Wi-Fi scan

Profiles

IP settings
Radio settings
Serial settings
Advanced settings
Dynamic DNS settings
Keyer settings
IO settings
Ping settings
Wi-Fi settings

Export settings(HTML)
Export settings(bin)
Import settings(bin)

Application upgrade
Bootloader upgrade

Restart device

Log in

Wi-Fi settings

1: Name (SSID)

1: Password (PSK)

2: Name (SSID)

2: Password (PSK)

3: Name (SSID)

3: Password (PSK)

4: Name (SSID)

4: Password (PSK)

5: Name (SSID)

5: Password (PSK)

6: Name (SSID)

6: Password (PSK)

7: Name (SSID)

7: Password (PSK)

8: Name (SSID)

8: Password (PSK)

Settings help

RemoteHamsServer UP and Running

RCForb (Online Remote Base) by KG6YPI

File Options Help ...Donate

Console Chats Activity Memories Publishing

```
25.07.2020 14:37:34 | Info: Initializing...
25.07.2020 14:37:34 | Info: Starting...
25.07.2020 14:37:34 | Info: Connecting to Radio...
25.07.2020 14:37:34 | RCForb Server (Free)
25.07.2020 14:37:37 | Info: Radio (Ic-706MkII G) Connected.
25.07.2020 14:37:37 | Info: Connecting to Rotator...
25.07.2020 14:37:37 | Info: Initializing Driver for Ic-706MkII G Written by W8RJ
Further Information at : http://forums.remotehams.com/index.php/topic\_402.0.html
25.07.2020 14:37:37 | Info: Connecting to Rotator -> YEASU...
25.07.2020 14:37:38 | Info: Command Ignored by Radio-->> TXSetup Serial PTT or VOX PTT
25.07.2020 14:37:38 | Info: Rotator Connected.
25.07.2020 14:37:38 | Info: Obtaining Orblid from RemoteHams.com...
25.07.2020 14:37:38 | Info: RotatorInfo: Initiating Yaesu Rotator.. Connected to rotator.
25.07.2020 14:37:38 | Info: Received Orblid from RemoteHams.com
25.07.2020 14:37:38 | Info: Radio Server Running on 0.0.0.0:4525
25.07.2020 14:37:38 | Info: Using WaveOut.
25.07.2020 14:37:38 | Info: Validating Controls..
25.07.2020 14:37:38 | Info: Speakers (TX Audio to Radio): Lautsprecher (M-Audio M-Track)
25.07.2020 14:37:38 | Info: Microphone (RX Audio from Radio): Line 1/2 (M-Audio M-Track)
25.07.2020 14:37:38 | Info: VoipServer: SetDesiredMaxDelay: 400ms
25.07.2020 14:37:38 | Info: VoipServer started on 0.0.0.0:4524
25.07.2020 14:37:39 | Info: Flash policy server started on 0.0.0.0:843
25.07.2020 14:37:39 | Info: Searching for uPnP Compatible Router...
25.07.2020 14:37:42 | Info: Switching Mode to LSB
25.07.2020 14:37:44 | Info: uPnP Requesting Router to Forward Ports
25.07.2020 14:37:44 | Info: Port Forwarded: 4525
25.07.2020 14:37:45 | Info: Port Forwarded: 4524
25.07.2020 14:37:45 | Info: Port Forwarded: 843
25.07.2020 14:37:46 | Info: Switching Mode back to FM
25.07.2020 14:37:46 | Info: Ic-706MkII G is Ready
25.07.2020 14:37:50 | Synchronized with RemoteHams.com
```

Connected Users: 0 | Pending TX: 0 | Pending Club: 0 | TX Audio Buffer: 0 ms

Einstellungen RemoteHamsServer

Audio Latency Adjustments

Normal Buffers (Default) ▾

Network Buffering Thresholds (TX Audio)

Automatically Adjust Buffers with Network Latency

Minimum Delay 100ms

Maximum Delay 2000ms

Playback Device (TX Audio from Clients)

Number of Buffers 4

Desired Device Latency 100ms

Capture Device (RX Audio to Clients)

Number of Buffers 2

Desired Device Latency 100ms

Restore Defaults Close Save

Global Server Configuration Wizard (Settings/server.xml)

Audio Settings Server Settings Publishing

VoIP Server

VOIP Port Wait TX Audio Delay To Unkey

Microphone (RX Audio from Radio) Device Mode

▾ ▾

Speakers (TX Audio to Radio) VoIP Codec (Compression)

▾ ▾

Mic Level (RX Audio Input)

Volume (TX Audio Output)

3rd Party Audio Solutions (Unreal Media Server, Skype, Icecast, etc.)

Streaming Audio (RX Only) Skype for Audio (RX/TX)

Type ▾ Skype Name

Domain/Host Custom Stream URL

Server Port Title of URL

Alias/Mount URL:

Close Restart Save and Close Save and Restart

Global Server Configuration Wizard (Settings/server.xml)

Audio Settings Server Settings Publishing

Radio Server Settings

Radio Server Port

HRD IP-Server Emulation

Emulate HRD Version

IP-Server Port (Default: 7809)

Basic Security

- Require Login to Tune
- Guests Not Allowed
- Enforce "Ask To Tune" Policy
- Enforce "Wait To Tune" Policy
- Turn TX off when user disconnects
- Enable "Reserved Slot" System

TOT Timer (Seconds)



- Auto Restrict Remote to (Club, Tx, Admin)

Client Idle Timeout in Hours
Any setting below 1 hour will disabled the timeout.

Close

Restart

Save and Close

Save and Restart

Global Server Configuration Wizard (Settings/server.xml)

Audio Settings Server Settings Publishing

Visible on RemoteHams.com

Name of Remote TX Allowed Club Mode Privacy From Guests

City State or County

Country Grid Square

Domain (Optional) Custom ORB Page URL:

Welcome Message / Description

Welcome to my remote using a ICOM IC706 MKIIG

PopUp Message On User Connection

Welcome to HB9MFL's remote radio base. Use of this remote radio base ist restricted to club members. This is a radio for test purposes connected to a Dipol in the 70cm Band .

Close

Restart

Save and Close

Save and Restart

Radio Configuration Wizard (Settings/radio.xml)

Remote Type Radio Connection PTT & CW Keying Other Devices

- Full Remote Radio (CAT Controlable)**
- Simplex / Repeater Link (PTT Only)**
- Virtual Remote (Testing Purposes)**

Choosing your Remote Type

Choose Full Remote:

If your planning on setting up a CAT contrable radio allowing users to change frequency, etc.

Choose Simplex / Repeater Link:

If you planning on setting up a PTT only based remote for linking a simplex frequency or repeater.

Cancel

Preview Config

Save and Restart

Radio Configuration Wizard (Settings/radio.xml)

Remote Type Radio Connection PTT & CW Keying Other Devices

Radio Connection Method

via Serial (COM) Port via Ham Radio Deluxe via Shortwave Log

Serial (COM) Port Configuration

COM2 Serial (COM) Port

19200 Serial Rate

58 CI-V Address
(Icom Only)

DTR

RTS

Radio Driver Selection

Icom Brand

706_MKIIG Model

Show Unstable Drivers

RTS for Power On Reverse

Connection via Ham Radio Deluxe / Shortwave Log

localhost Domain/Host

7809 Port

Cancel

Preview Config

Save and Restart

Radio Configuration Wizard (Settings/radio.xml)

Remote Type Radio Connection PTT & CW Keying Other Devices

PTT Configuration

PTT (TX) via CAT
 via COM
 via VOX

External PTT (COM) Port Configuration

(COM) Port COM8 On TX: Use DTR Reverse Polarity
 Use RTS Cycle Pin On Start

External CW Keying

CW (KEY) Enabled
 Disabled

External CW (COM) Port Configuration

(COM) Port COM3 On CW: Use DTR Reverse Polarity
 Use RTS Cycle Pin On Start

If your radio does not support PTT over CAT, you may utilize a serial (COM) port for PTT using a device such as a RIGblaster or Custom PTT Interface by switching the DTR or RTS signals.

To use the Serial (COM) Port with your PTT Interface:
Select the Serial (COM) port, this port must not be in use by another program.
Select the pins to signal (DTR, RTS or DTR and RTS) for activating PTT.
If needed you can reverse the polarity of the signal.

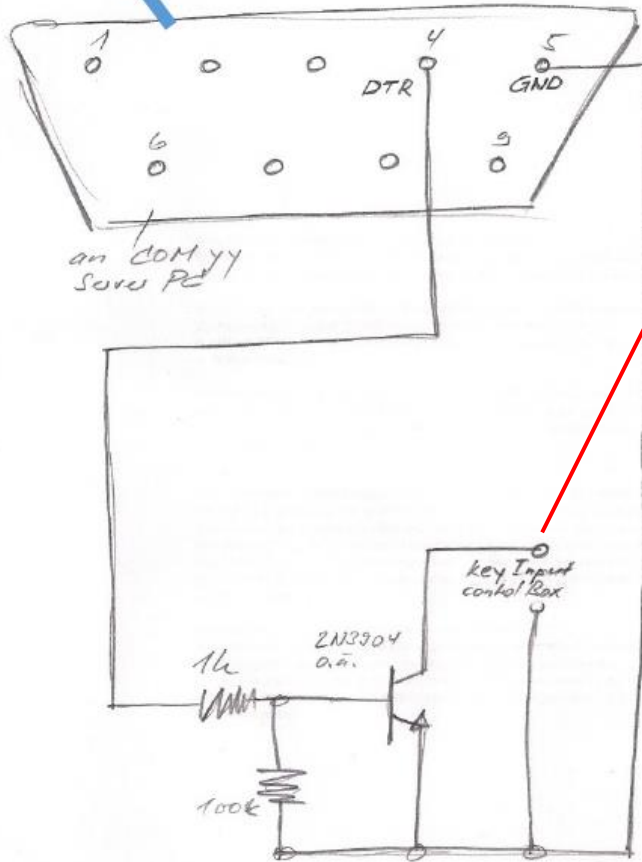
Note: This port cannot be used by another program such as HRD - it must be available for exclusive use by RCForb.

Cancel Preview Config Save and Restart

**Achtung
Haken
entfernen!**

Hardware:
COM yy

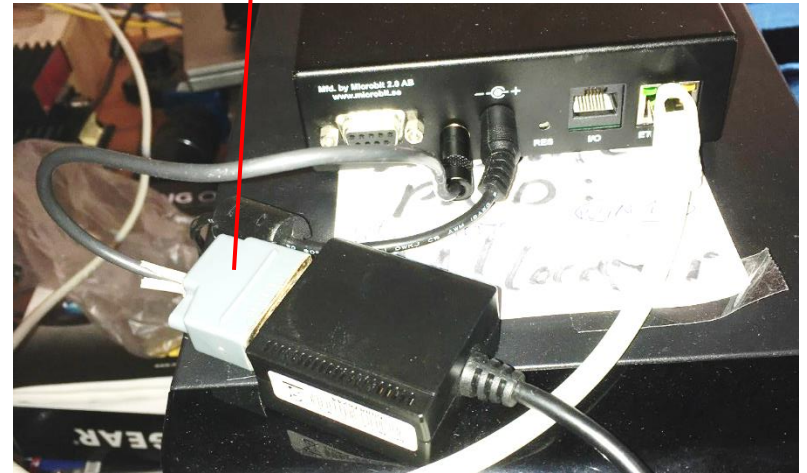
RD Forb Server CU Kabel
DSUB female; rear view



2.8.20 Lujp

Auf Ring 3.5mm
Stecker welcher beim
Böxli an PAD
angeschlossen wird.

Transistor und
Widerstände im
Stecker



Radio Configuration Wizard (Settings/radio.xml)

Remote Type Radio Connection PTT & CW Keying **Other Devices**

Amp Support

Amplifier Enabled

Acom2000 Select Driver

38400 Serial Rate

COM1 Serial (COM) Port

Auto-Track Radio Frequency

Auto-Track Radio Power

Switch Support (Relay Boards)

Switch Enabled

AB6Z Select Driver

9600 Serial Rate

COM1 Serial (COM) Port

Custom Names

* Comma Separated List *
Ex: ANT1,ANT2,ANT3,AMP
(Leave blank to use default names)

Auto Track Radio Frequency

Rotator Support

Rotator Enabled

GS232A/B Select Driver

9600 Serial Rate

COM4 Serial (COM) Port

Offset

Offset must be in range (-179 to 180)
(Leave blank for default)

10 Set Bearing Delay (Seconds)

Delay before allowing another
set bearing command.

Cancel Preview Config **Save and Restart**

Situation falls ein OM die RemoteStation lokal bedienen möchte.

Grundsatz: Die lokale Bedienung geht vor.

Ist dieser Haken gesetzt, so können die Remote Logins bei Aktivität am TRX keine Änderungen vornehmen. (Details nächste Folie)

Global Security Manager

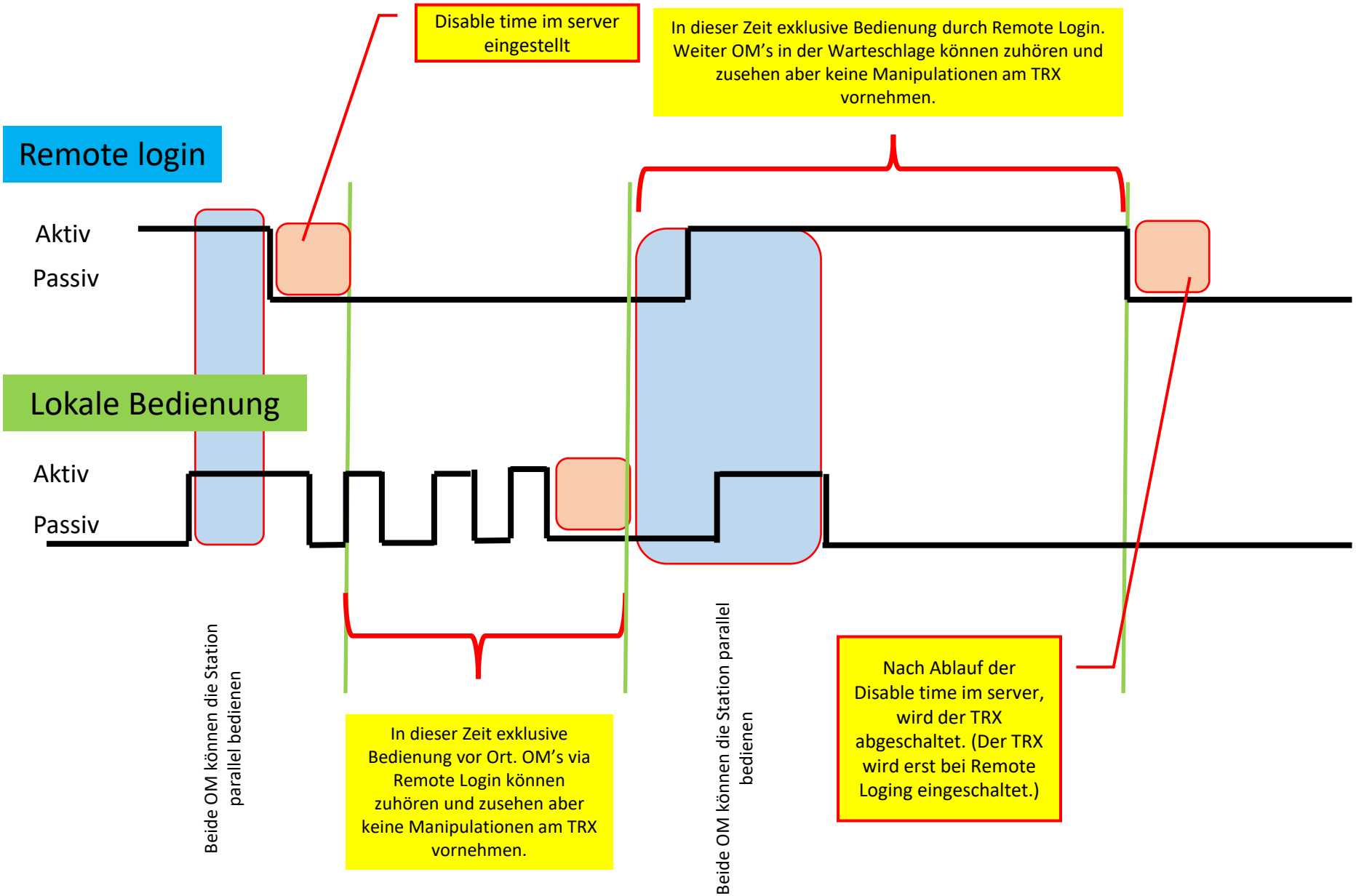
Allowed RX Frequencies	7000000-30000000,430000000-440000000	<input checked="" type="checkbox"/> Enabled	...
Allowed TX Frequencies	7000000-30000000,430000000-440000000	<input type="checkbox"/> Enabled	...
Blocked Frequencies	26965000-27405000	<input checked="" type="checkbox"/> Enabled	...
Blocked Features		<input type="checkbox"/> Enabled	...
Allowed Buttons	TX, TXd, Tune, ATU, NB, NR, ANF, MNF, Mon, PB	None	Get List ...
Allowed Dropdowns	Mode, Filter, AGC, Pre Amp, ATT, Antenna, T	None	Get List ...
Allowed Sliders	NB Level, NR Level, Notch, PBT Outside, PBT In	None	Get List ...
Allowed Messages	Faults	None	Get List ...
Allowed Statuses	Split, VFO A, VFO B, Scanning	None	Get List ...
<input checked="" type="checkbox"/> Disable Remote on Local Radio Activity	Disabled Duration (Seconds)	600	...
<input type="checkbox"/> Auto Power Radio Off When No Clients Connected			
<input checked="" type="checkbox"/> Enable User Level Permission for Other Devices (Amp, Rotator, Switch, etc.)			

*** ADMINs BYPASS ALL SECURITY.
only assign yourself as admin.**

Import Export Cancel Save

Die hier eingestellte Zeit gilt für den RCForbClient *und* den lokalen Benutzer!
Ein vernünftige Zeit sollte ca. 120 s sein

Zeitliches Verhalten des RemoteHamsServer



Remote login

Disable time im server
eingestellt

In dieser Zeit exklusive Bedienung durch Remote Login.
Weiter OM's in der Warteschlange können zuhören und
zusehen aber keine Manipulationen am TRX
vornehmen.

Lokale Bedienung

Aktiv
Passiv

Aktiv
Passiv

Beide OM können die Station
parallel bedienen

In dieser Zeit exklusive
Bedienung vor Ort. OM's via
Remote Login können
zuhören und zusehen aber
keine Manipulationen am TRX
vornehmen.

Beide OM können die Station parallel
bedienen

Nach Ablauf der
Disable time im server,
wird der TRX
abgeschaltet. (Der TRX
wird erst bei Remote
Loging eingeschaltet.)

Situation falls ein OM die RemoteStation lokal bedienen möchte.

Faires Verhalten

Ablauf einer Nutzung der Remote Station vor Ort:

- Der OM betritt den Standort und stellt fest, der TRX ist eingeschaltet aber niemand ist physisch an der Station. >> Die Station wird remote gesteuert.
- Der OM loggt sich im RCForbClient vor Ort ein, und schreibt in den Chat, dass er die Kontrolle übernehmen möchte.
- Der Remote OM beendet seine Verbindung und stellt seine Aktivitäten ein.
- Ab sofort kann der OM vor Ort Betrieb vornehmen.
- Der OM vor Ort stellt sein Aktivität ein.
- Nach Ablauf der «Disable time» (z.B. 120s) steht die Station wieder für Remote Login zur Verfügung.

Create Virtual Serial Ports ✕

Emulate K3 on Virtual Serial Port

Disabled Unused Serial Ports

Enable Elecraft K3 Emulation

Emulate DCU-1 on Virtual Serial Port

Unused Serial Ports

Enable Rotator Emulation

This allows logging software to connect to RCForb Server using the selected virtual serial port. Select Elecraft K3 for the radio type in your logging software. The port speed is 38400.

Close Reload Save and Restart

SETUP für eine Verbindung zur Remote Station mit RCForb Client Von RemoteHams

RCForbClient

<http://download.remotehams.com/>



Prolific USB-to-Serial Comm Port (COM4)

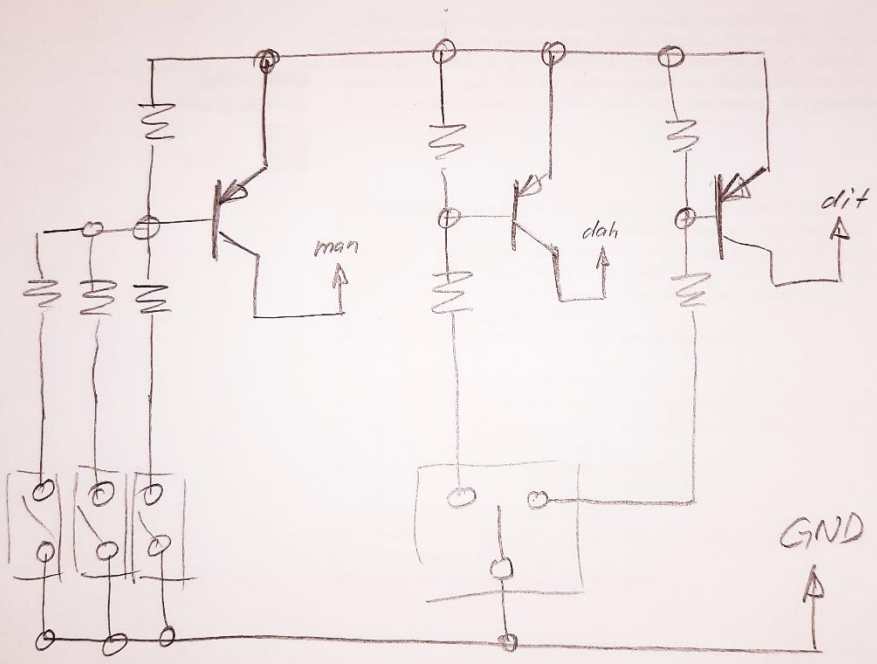
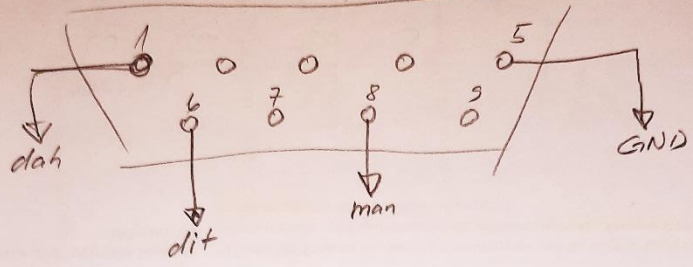
USB><COM
Adapter_Kabel
für CW-Tastung



ERC Control in
Yaesu
Rotorcontrol box

RC' Forth Client; CW

DSUB female, rear view



Ext key
Handkarte
Rings
Coartic key
...

paddle

3.8.20 wip

SETUP für die Anschaltung von CW-Equipment an das COM-Port

Anzeige RCForbClient

Wenn das Gerät auf FM steht, hört man unter Umständen nichts, da der Squelch aktiv ist!

The screenshot displays the RCForbClient software interface. At the top, there are tabs for 'Audio', 'Control Devices', 'Virtual Devices', and 'Layout'. Below these are various audio and control settings. The main interface is divided into several sections:

- Left Panel:** Contains various mode and filter settings, including 'FM', 'Wide', 'Slow', 'On', 'Off', 'One', 'Wide', '67.0 Hz', 'Sim', and 'Repeater Shift'.
- Center Display:** Shows the date and time (25.07.2020 15:01:17), uptime (14m 27s 776ms), and the device name (Ic-706MkIIIG). The digital display shows 'TOT: 179 seconds.' and frequency values '432.450.000' and '14.030.000'. Below the display are buttons for 'SPLIT', 'VFO A', 'VFO B', and 'SCANNING'.
- Right Panel:** Features a grid of control buttons including 'TX', 'TXd', 'Tune', 'ATU', 'NB', 'NR', 'ANF', 'MNF', 'Mon', 'PB Clr', 'Split', 'VFO A', 'VFO B', 'A=B', 'A/B', 'Scan', 'Comp', 'Tone', 'TSQL', 'Lock', and 'Test'. There are also two frequency step buttons set to '0.1 k'.
- Bottom Left:** A 'Chats' window showing a log of messages, including a welcome message for 'hb9mfl'.
- Bottom Right:** A 'CW' window with a 'MACROS' section containing buttons for 'CQ', 'TU', 'SNN', 'CALL', 'F5', 'F6', 'F7', and 'F8'.

A green dot is visible on the right side of the interface, and a compass rose is located in the bottom right corner.

Rotorbedienung erfolgt hier

RCForb Client anpassen für den Einsatz CW

COM X wählen
gemäss lokalem PC

The screenshot shows the RCForb Client software interface. A configuration dialog box is open, titled "Serial Port", with "COM5" selected in the dropdown menu. The dialog includes radio button options for DIT, DAH, and KEY, and a checked checkbox for "Use RTS as Power". A red arrow points from the yellow text box to the "COM5" dropdown.

The background interface shows a list of remote stations on the left and a table of radio stations on the right. The status bar at the bottom indicates "Online: 240" and "Synchronized @ 14:00".

Radio	City	State	Country
Unknown	Unknown	Unknown	Unknown
MOTOR...	Qwasimo...	KW	Zimbabwe
TS-590	Rio Rancho	NM	USA
Ic-7300	Birmingham...	AL	United Sta...
Ic-7300	Irondale ...	AL	United Sta...
FT-100	Ash Flat	AR	United Sta...
Ic-7100	PHOENIX	ARIZON...	United Sta...
Enter m...	See	ca	United Sta...
TS-870	Alta Loma	CA	United Sta...
TS-2000	Atwater	CA	United Sta...
Icom	La Mesa	CA	United Sta...
K3	Marina	CA	United Sta...
FT-991	Morgan Hill	CA	United Sta...
FT857	Salinas	CA	United Sta...
K3	Salinas	CA	United Sta...
TS-2000	Salinas	CA	United Sta...
TS-570	Santa Cruz	CA	United Sta...
TS-2000	Vandenb...	CA	United Sta...
Ic-7600	Volcano	CA	United Sta...
Ic-7300	Harlinge...	Cameron...	United Sta...
Ic-756 Pr...	Lutz	FL	United Sta...
Ic-7300	Citrus Sp...	FL	United Sta...
TS-2000	Coconut...	FL	United Sta...
Ic-9100	Ft. Laud...	FL	United Sta...