

Cubietruck als headless Video Disk Recorder (VDR)

Installation von Debian (GNU Debian 10.x aka. Buster) auf dem Cubietruck (ARMv7 AllWinner A20)

Quellen

1. <https://wiki.debian.org/InstallingDebianOn/Allwinner>
2. <https://www.debinux.de/2014/12/debian-basics-mit-systemd/>
3. <http://www.milaw.biz/wiki/arch/cubietruck> - Pimp my CubieTruck
4. <https://www.robert-sperling.de/mainline-kernel-fuer-cubietruck/>
5. <http://www.sundtek.com/>



Debian 10.x aka. Buster Installation

Installation wie unter [1] beschrieben durchführen.

```
wget https://deb.debian.org/debian/dists/stable/main/installer-armhf/current/images/netboot/SD-card-images/firmware.Cubietruck.img.gz
wget https://deb.debian.org/debian/dists/stable/main/installer-armhf/current/images/netboot/SD-card-images/partition.img.gz
zcat firmware.<board_name>.img.gz partition.img.gz > /dev/sdc
```

- Serielles Kabel (FTDI-Kabel) anschließen um die folgenden Schritte auf der Konsole durchführen zu können, Schnittstellenparameter: 115200 baud, 8N1
- `sudo minicom -b 115200 -o -D /dev/ttyUSB0`
- Cubietruck mit der neu erstellten SD-Karte booten
- SD-Karte in Cubietruck, Power ON
- System bootet komplett im RAM
- Installation via Konsole durchführen
- Reboot

Konfiguration des Grundsystems

SSH Login einrichten und Grundsystem konfigurieren ...

```
#login als <USER> via SSH
ssh -l <USER> <VDR-IP>
su root
echo "PermitRootLogin yes" >> /etc/ssh/sshd_config
```

reboot

Zum SSH-Login ohne Passwordeingabe eine SSH Schlüsseldatei auf den VDR kopieren:

```
ssh-copy-id -i ~/.ssh/vdr.wg.pub root@<VDR-IP>  
# dann immer mit:  
ssh vdr
```

Oder mit Passwort:

```
ssh -l root <VDR-IP>
```

install_system.sh

```
#!/bin/bash  
# System aktualisieren und ein paar wichtige Tools installieren  
apt-get -y update  
apt-get -y dist-upgrade  
apt-get -y install mc aptitude net-tools  
echo "PATH=$PATH:/sbin" >> .profile  
echo "PATH=$PATH:/sbin" >> /home/christoph/.profile  
  
# Zeitzone auf Europa - Berlin einstellen:  
timedatectl set-timezone Europe/Berlin  
# Systemsprache auf "Deutsch" ändern damit VDRAdmin-AM auch 'schön'  
aussieht und Umlaute sowohl im EPG als auch in den Aufnahmen korrekt  
dargestellt werden:  
sed -i 's/# de_DE.UTF-8 UTF-8/de_DE.UTF-8 UTF-8/g' /etc/locale.gen  
locale-gen  
update-locale LANG=de_DE.UTF-8 LC_MESSAGES=de_DE.UTF-8  
LANGUAGE=de_DE.UTF-8  
sed -i 's/LC_ALL="C"/LC_ALL=de_DE.UTF-8/g' /etc/environment  
echo "LANG=de_DE.UTF-8" >> /etc/environment  
echo ""  
echo "Reboot empfohlen!"  
#reboot
```

```
# Check mit:  
date
```

Netzwerkconfiguration

install_network.sh

```
#!/bin/bash  
# Statische Netzwerkkonfiguration --> Networkmanager abschalten - wird
```

```
bei mir nicht benötigt
systemctl stop NetworkManager
systemctl disable NetworkManager

# Netzwerkkonfiguration schreiben:
cat << EOF >> /etc/network/interfaces

auto eth0
iface eth0 inet static
    address 192.168.100.3
    broadcast 192.168.100.255
    netmask 255.255.255.0
    gateway 192.168.100.1
    dns-nameservers 192.168.100.1
EOF

# Netzwerkdienste neu starten
systemctl restart networking
systemctl restart resolvconf
```

NTP Server ändern

```
# eigenen NTP Server eintragen:
grep -v '^pool' /etc/chrony/chrony.conf > /etc/chrony/chrony.tmp; echo
"server 192.168.100.1" >> /etc/chrony/chrony.tmp; mv /etc/chrony/chrony.tmp
/etc/chrony/chrony.conf
```

Festplatte einbinden

[mount_hdd.sh](#)

```
#!/bin/bash
# Die eindeutige ID meiner Festplatte ermitteln und damit einen Eintrag
zum mounten beim Systemstart in der 'fstab' erstellen:
UUID=`blkid -o value -s UUID /dev/sda1`; echo "UUID=$UUID /mnt/sda1
ext4 defaults 1 1" >> /etc/fstab
#UUID=`blkid | grep -i sda1 | cut -d'"' -f2`; echo "UUID=$UUID
/mnt/sda1 ext4 defaults 1 1" >> /etc/fstab
#
# HOME-Verzeichnis umleiten damit ich mehr Platz zur Verfügung habe ;-)
mkdir -p /mnt/sda1
mount -a
mkdir -p /mnt/sda1/christoph
cd /home/
mv christoph christoph_orig
ln -s /mnt/sda1/christoph christoph
```

```
chown -R christoph:christoph /mnt/sda1/christoph
cd /home/christoph_orig
find . -depth -print | cpio -pdm --quiet ../christoph/
```

Installation Sundtek Treiber

[install_sundtek.sh](#)

```
#!/bin/bash
mkdir -p sundtek
cd sundtek
# Installations-Script vom Hersteller Sundtek herunter laden und
ausführen:
wget http://www.sundtek.de/media/sundtek_netinst.sh
chmod +x sundtek_netinst.sh
./sundtek_netinst.sh -easyvdr -nolirc
/opt/bin/mediaclient --dtvtransfermode=bulk -d
/dev/dvb/adapater0/frontend0
# Reconnect Tuner #1
/opt/bin/mediaclient --dtvtransfermode=bulk -d
/dev/dvb/adapater1/frontend0
# Reconnect Tuner #2
#
# VDR erneut starten wenn DVB-Tuner Treiber geladen sind:
echo "device_attach=service vdr restart" >> /etc/sundtek.conf
```

Installation Hauppauge WinTV-dualHD Firmware

Zum Betrieb des DVB-C dual Tuners **WinTV-dualHD** wird noch die passende Firmware benötigt. Diese muss im Verzeichnis `/lib/firmware/` abgelegt werden damit der Kernel sie beim Systemstart automatisch laden kann.

Quellen

- [Hauppauge Support Webseite](#)
- <https://tvheadend.org/boards/5/topics/41993>
- <http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-B40/>

Bash Code einfügen

[install_hauppauge.sh](#)

```
#!/bin/bash
sudo su
cd /lib/firmware/
# defekt: wget
https://github.com/OpenELEC/dvb-firmware/raw/master/firmware/dvb-demod-
si2168-b40-01.fw
# defekt: wget
https://github.com/OpenELEC/dvb-firmware/blob/master/firmware/dvb-demod-
-si2168-b40-01.fw
# defekt:wget
http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-B40/4.0.25/dvb-
demod-si2168-b40-01.fw
wget http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-
B40/4.0.4/dvb-demod-si2168-b40-01.fw
shutdown -r now
```

```
wget http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-
B40/4.0.25/dvb-demod-si2168-b40-01.fw
```

dmesg

```
...
[ 35.605149] si2168 5-0064: downloading firmware from file 'dvb-demod-
si2168-b40-01.fw'
[ 36.824341] si2168 5-0064: firmware version: B 4.0.25
[ 36.843449] si2157 8-0060: found a 'Silicon Labs Si2157-A30'
[ 36.898574] si2157 8-0060: firmware version: 3.0.5
[ 36.943588] si2168 5-0064: downloading firmware from file 'dvb-demod-
si2168-b40-01.fw'
[ 36.951864] si2168 7-0067: downloading firmware from file 'dvb-demod-
si2168-b40-01.fw'
[ 38.081222] si2168 5-0064: firmware version: B 4.0.25
[ 38.090572] si2157 8-0060: found a 'Silicon Labs Si2157-A30'
[ 38.092594] si2168 7-0067: firmware version: B 4.0.25
[ 38.101348] si2157 9-0063: found a 'Silicon Labs Si2157-A30'
[ 38.115615] si2157 8-0060: firmware version: 3.0.5
[ 38.151070] si2157 9-0063: firmware version: 3.0.5
[ 38.172695] si2168 7-0067: downloading firmware from file 'dvb-demod-
si2168-b40-01.fw'
[ 39.367599] si2168 7-0067: firmware version: B 4.0.25
[ 39.380975] si2157 9-0063: found a 'Silicon Labs Si2157-A30'
[ 39.406462] si2157 9-0063: firmware version: 3.0.5
```

VDR installieren

[install_vdr.sh](#)

```
#!/bin/bash
```

```
# VDR, StreamDev-Server, VNSI-Plugin, EPGSearch und VDRAdmin-AM
installieren:
apt-get -y install vdr vdr-plugin-streamdev-server vdr-plugin-
vnsiserver vdradmin-am vdr-plugin-epgsearch w-scan
# VDR stoppen damit weitere Änderungen an den Konfigurationsdateien
erfolgen können.
/etc/init.d/vdr stop
```

VDR Konfiguration

[configure_vdr.sh](#)

```
# Verzeichnis für die Aufnahmen anlegen
mkdir -p /mnt/sda1/video0
chown -R vdr:vdr /mnt/sda1/video0/
chmod g+w /mnt/sda1/video0/

# VDR Konfigurationsdateien (nach-) bearbeiten:
sed -i 's/ENABLED="0"/ENABLED="1"/g' /etc/default/vdradmin-am
sed -i 's/UpdateChannels = 5/UpdateChannels = 0/g'
/var/lib/vdr/setup.conf
sed -i 's/--video=\/var\/lib\/video/--video=\/mnt\/sda1\/video0/g'
/etc/vdr/conf.d/00-vdr.conf
sed -i 's/--lirc/#--lirc/g' /etc/vdr/conf.d/00-vdr.conf
sed -i 's/--vfat/#--vfat/g' /etc/vdr/conf.d/00-vdr.conf

# Aktionen im Anschluss einer Aufnahme: Zugriffsrechte ändern:
cp /etc/vdr/recording-hooks/R90.custom /etc/vdr/recording-
hooks/R90.custom_orig
sed -i '/ENDED/a \ \ \ \ \ \ \ \ chmod -R g+w $2/..'
/etc/vdr/recording-hooks/R90.custom

# Konfiguration von VDRAdmin-AM anpassen:
sed -i 's/PASSWORD = linvdr/PASSWORD = vdr/g' /var/lib/vdradmin-
am/vdradminind.conf
sed -i 's/USERNAME = linvdr/USERNAME = vdr/g' /var/lib/vdradmin-
am/vdradminind.conf
if [[ -z `grep -w "LANG" /var/lib/vdradmin-am/vdradminind.conf` ]]; then
    echo "LANG = de_DE.utf8" >> /var/lib/vdradmin-am/vdradminind.conf
else
    sed -i 's/LANG = en_US.utf8/LANG = de_DE.utf8/g' /var/lib/vdradmin-
am/vdradminind.conf
    sed -i 's/LANG = /LANG = de_DE.utf8/g' /var/lib/vdradmin-
am/vdradminind.conf
fi
sed -i 's/SERVERHOST = ::/SERVERHOST = 0.0.0.0/g' /var/lib/vdradmin-
```

```

am/vdradmin.conf

if [[ -z `grep -w "LOCAL_NET" /var/lib/vdradmin-am/vdradmin.conf` ]];
then
    echo "LOCAL_NET = 192.168.0.0/16" >> /var/lib/vdradmin-
am/vdradmin.conf
else
    sed -i 's/LOCAL_NET = 0.0.0.0/32/LOCAL_NET = 192.168.0.0/16/g'
/var/lib/vdradmin-am/vdradmin.conf
fi
echo "VIDEODIR = /mnt/sda1/video0" >> /var/lib/vdradmin-
am/vdradmin.conf
echo "TM_MARGIN_BEGIN = 10" >> /var/lib/vdradmin-am/vdradmin.conf
sed -i 's/GUEST_ACCOUNT = 0/GUEST_ACCOUNT = 1/g' /var/lib/vdradmin-
am/vdradmin.conf
echo "PASSWORD_GUEST = gast" >> /var/lib/vdradmin-am/vdradmin.conf
echo "USERNAME_GUEST = gast" >> /var/lib/vdradmin-am/vdradmin.conf

# Lokale Netzwerke zulassen:
echo "192.168.0.0/16" >> /etc/vdr/svdrphosts.conf
sed -i 's/#192.168.100.0/24/192.168.0.0/16/g'
/etc/vdr/plugins/streamdevhosts.conf
sed -i 's/192.168.0.0/24/192.168.0.0/16/g'
/etc/vdr/plugins/vnsiserver/allowed_hosts.conf
/etc/init.d/vdr start

```

Sendersuchlauf manuell starten

```

sudo su
#apt-get install w-scan
# w_scan -fc -c DE >> /root/channels.conf
w_scan -fc -c DE >> /root/`date +%Y%m%d`_channels.conf

```

angepasste Kanalliste verwenden

Kanalliste kopieren nach /var/lib/vdr/channels.conf

[mk_channels_conf.sh](#)

```

#!/bin/bash
# Backup der Originl-Kanalliste anlegen:
cp /var/lib/vdr/channels.conf /var/lib/vdr/channels_`date +%Y%m%d`.conf

# meine persönliche Kanalliste erstellen:
cat << EOF > /var/lib/vdr/channels.conf
Das Erste

```

```
HD;ARD:330000:M256:C:6900:5101=27:0;5102=@106,5103=@106:5104;5105:0:11100:1:1051:0
ZDF
HD;ZDFvision:450000:M256:C:6900:6110=27:0;6120=@106,6121=@106,6123=@106:6130;6131:0:11110:1:1079:0
NDR FS NDS
HD;ARD:458000:M256:C:6900:5221=27:0;5222=@106,5223=@106:5224;5225:0:10327:1:1073:0
SAT.1;Digital
Free:122000:M64:C:6900:2701=2:2702=ger@3;2703=@106:2704:0:53626:61441:10000:0
RTL;Digital
Free:122000:M64:C:6900:1401=2:1402=ger@3;1403=@106:1404;6261:0:53601:61441:10000:0
ProSieben;Digital
Free:442000:M256:C:6900:2201=2:2202=ger@3;2203=@106:2204:0:53621:61441:10008:0
VOX;Digital
Free:394000:M256:C:6900:1701=2:1702=ger@3:1704;1700:0:53604:61441:10003:0
kabel eins;Digital
Free:442000:M256:C:6900:2301=2:2302=ger@3:2304:0:53622:61441:10008:0
kabel eins Doku;Digital
Free:610000:M64:C:6900:1511=2:1512=ger@3:1514:0:50122:61441:10021:0
3sat
HD;ZDFvision:562000:M256:C:6900:6691=27:0;6692=@106,6693=@106,6697=@106:6694;6690:0:11150:61441:10017:0
arte
HD;ARD:418000:M256:C:6900:6661=27:0;6662=@106,6663=@106,6669=@106:6664;6665,6666:0:11120:61441:10014:0
PHOENIX
HD;ARD:474000:M256:C:6900:581=27:0;582=@106,583=@106:584:0:10331:61441:10009:0
zdf_neo
HD;ZDFvision:474000:M256:C:6900:541=27:0;542=@106,543=@106,547=@106:544;540:0:11130:61441:10009:0
ZDFinfo
HD;ZDFvision:450000:M256:C:6900:6710=27:0;6720=@106,6721=@106,6723=@106:6730;6731:0:11170:1:1079:0
tagesschau24 HD;Digital
Free:586000:M256:C:6900:1221=27:0;1222=@106,1223=@106:1224:0:50062:61441:10018:0
n-tv;Digital
Free:394000:M256:C:6900:1901=2:1902=ger@3,1903=qaa@4:1904:0:53606:61441:10003:0
N24 Doku;Digital
Free:610000:M64:C:6900:1471=2:1472=ger@3:1474:0:51037:61441:10021:0
ONE HD;Digital
Free:570000:M256:C:6900:1721=27:0;1722=@106,1723=@106:1724;1720:0:10376:61441:10023:0
```

ARD alpha HD;Digital

Free:586000:M256:C:6900:1211=27:0;1212=@106,1213=@106:1214;1210:0:50061:61441:10018:0

KiKA

HD;ZDFvision:474000:M256:C:6900:431=27:0;432=@106,433=@106:434;430:0:11160:61441:10009:0

TOGG0 plus;Digital

Free:402000:M256:C:6900:591=2:592=ger@3:0:0:53326:61441:10002:0

ProSieben MAXX;Digital

Free:562000:M256:C:6900:6431=2:6432=ger@3;6433=@106:6434:0:53009:61441:10017:0

Welt der Wunder TV;Digital

Free:610000:M64:C:6900:1421=2:1422=ger@3:0:0:51043:61441:10021:0

BR Fernsehen Süd

HD;ARD:338000:M256:C:6900:5201=27:0;5202=@106,5203=@106:5204;5205:0:10325:1:1101:0

SR Fernsehen HD;Digital

Free:586000:M256:C:6900:1271=27:0;1272=@106,1273=@106:1274;1270:0:50064:61441:10018:0

rbb Berlin

HD;ARD:450000:M256:C:6900:5311=27:0;5312=@106,5313=@106:5314;5315:0:10351:1:1079:0

NDR FS HH

HD;ARD:338000:M256:C:6900:5241=27:0;5242=@106,5243=@106:5244;5245:0:10329:1:1101:0

MDR Sachsen

HD;ARD:338000:M256:C:6900:5321=27:0;5322=@106,5323=@106:5324;5325:0:10352:1:1101:0

SWR RP

HD;ARD:330000:M256:C:6900:5131=27:0;5132=@106,5133=@106:5134;5135:0:10304:1:1051:0

WDR HD

Köln;ARD:330000:M256:C:6900:5501=27:0;5502=@106,5503=@106:5504;5505:0:28325:1:1051:0

hr-fernsehen

HD;ARD:418000:M256:C:6900:6551=27:0;6552=@106,6553=@106:6554;6550:0:10355:61441:10014:0

sixx;Digital

Free:442000:M256:C:6900:1181=2:1182=ger@3:1184:0:50700:61441:10008:0

TELE 5;Digital

Free:442000:M256:C:6900:411=2:412=ger@3:414:0:53002:61441:10008:0

SUPER RTL;Digital

Free:394000:M256:C:6900:1501=2:1502=ger@3:1504;1500:0:53602:61441:10003:0

RTL II;Digital

Free:394000:M256:C:6900:1601=2:1602=ger@3:1604;1600:0:53603:61441:10003:0

DMAX;Digital

Free:466000:M256:C:6900:2291=2:2292=ger@3:2294:0:53617:61441:10007:0

SAT.1 Gold;Digital

Free:538000:M256:C:6900:2431=2:2432=deu@3:2434:0:53324:61441:10022:0

EOF

```
chown vdr:vdr /var/lib/vdr/channels.conf
```

Radiorecorder mit Web-GUI

```
sudo su
apt-get -y install lighttpd streamripper at
systemctl status lighttpd
usermod -G vdr -a www-data
# PHP7.x
apt-get -y install php-common php-cgi php
lighty-enable-mod fastcgi
service lighttpd force-reload
lighty-enable-mod fastcgi-php
service lighttpd force-reload
systemctl restart lighttpd
echo "<?php phpinfo(); ?>" >> /var/www/html/phpinfo.php
# Im Browser öffnen: http://VDR-IP/phpinfo.php
# www-data aus /etc/at.deny entfernen
sed -i -e '/www-data/d' /etc/at.deny
cd ~
wget
https://netcologne.dl.sourceforge.net/project/radiorecwebgui/0.3.x/radioreco
rder_0.3.1.tar.gz
tar xzf radiorecorder_0.3.1.tar.gz
mkdir -p /var/www/html/radiorecorder
cp -R radiorecorder_0.3.1/* /var/www/html/radiorecorder/
touch /var/www/html/radiorecorder/res/streams.txt
```

/var/www/html/radiorecorder/res/streams.txt

[streams.txt](#)

```
NDR2;http://ndr-ndr2-niedersachsen.cast.addradio.de/ndr/ndr2/niedersach
sen/mp3/128/stream.mp3
NDR
Kultur;http://ndr-ndrkultur-live.cast.addradio.de/ndr/ndrkultur/live/mp
3/128/stream.mp3
NDR
Info;http://ndr-ndrinfo-niedersachsen.cast.addradio.de/ndr/ndrinfo/nied
ersachsen/mp3/128/stream.mp3
N-
```

```
Joy;http://ndr-njoy-live.cast.addradio.de/ndr/njoy/live/mp3/128/stream.mp3
NDR
Blue;http://ndr-ndrblue-live.cast.addradio.de/ndr/ndrblue/live/mp3/128/stream.mp3
NDR
Plus;http://ndr-ndrplus-live.cast.addradio.de/ndr/ndrplus/live/mp3/128/stream.mp3
```

```
chown -R www-data:www-data /var/www/html/
mkdir /mnt/sdal/video0/radiorecorder
chown -R vdr:vdr /mnt/sdal/video0/radiorecorder/
chmod -R g+w /mnt/sdal/video0/radiorecorder/
systemctl restart lighttpd
# Im Browser öffnen: http://<VDR-IP>/radiorecorder/
```

/var/www/html/radiorecorder/res/settings.php

[settings.php](#)

```
<?php

class Settings {

    public static $siteRoot = '/var/www/html/radiorecorder';
    public static $recordedFilesDestination =
'/mnt/sdal/video0/radiorecorder';
    public static $language = 'de'; // "de" for german or "en" for english
    public static $locale = 'C'; // default is "C"; other possible
locales: "de_AT.UTF-8" to enable all corresponding characters for the
filename
    public static $defaultStreamripperParams = ''; // adds streamripper
params to each call
    public static $addDatePrefixToFilename = null; // prefix format
(e.g. 'Y-m-d') or null if no prefix to add
    public static $postCommand = ''; // command to be executed after
the recording is finished
    public static $logThreshold = 3; //Level of log messages, possible
values : LEVEL_DEBUG=4, LEVEL_INFO=3, LEVEL_WARN=2, LEVEL_ERROR=1

}

?>
```

SAMBA installieren und einrichten

```
apt-get -y install samba cifs-utils
adduser christoph
smbpasswd -a christoph
usermod -G vdr -a christoph
adduser gast
smbpasswd -a gast
systemctl restart smbd
```

Samba Konfiguration

```
cp /etc/samba/smb.conf /etc/samba/smb.conf_orig
mcedit /etc/samba/smb.conf
```

smb.conf

```
#===== Global Settings =====

[global]
    workgroup = WG
    server string = %h server
    wins support = no

    wins server = 192.168.100.1
    dns proxy = no
    name resolve order = lmhosts host wins bcst
    unix extensions = no
    server signing = disabled

#### Networking ####
;   interfaces = 127.0.0.0/8 eth0
;   bind interfaces only = yes

#### Logging ####
    log file = /var/log/samba/log.%m

# Cap the size of the individual log files (in KiB).
    max log size = 1000
    syslog = 0
    panic action = /usr/share/samba/panic-action %d

##### Authentication #####
    security = user
    encrypt passwords = true
    passdb backend = tdbsam
```

```
obey pam restrictions = yes
unix password sync = yes
passwd program = /usr/bin/passwd %u
passwd chat = *Enter\snew\s*\spassword:* %n\n
*Retype\snew\s*\spassword:* %n\n *password\supdated\ssuccessfully* .
pam password change = yes
map to guest = bad user

client min protocol = SMB2
client max protocol = SMB3

#===== Share Definitions =====
[homes]
    comment = Home Directories
    browseable = yes
    writeable = yes
    read only = no
    create mask = 0700
    directory mask = 0700
    valid users = %S

[Aufnahmen]
    comment = VDR Aufnahmen
    path = /mnt/sda1/video0
    browseable = yes
    writeable = yes
    read only = no
    #create mask = 0700
    #directory mask = 0700
    #valid users = %S
    create mask = 0664
    directory mask = 0775
    force group = users
    follow symlinks = yes
    wide links = yes

load printers = no
printing = bsd
printcap name = /dev/null
disable spoolss = yes
```

Alles zusammen in einem Script...

```
wget -O install_all.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_arm
bian_buster?do=export_code&codeblock=23" && chmod +x install_all.sh &&
./install_all.sh
```

install_all.sh

```
#!/bin/bash
echo "Lade Installations-Skripte herunter ..."
wget -O install_system.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=4" && chmod +x
install_system.sh
wget -O install_network.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=6" && chmod +x
install_network.sh
wget -O mount_hdd.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=8" && chmod +x mount_hdd.sh
wget -O install_sundtek.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=9" && chmod +x
install_sundtek.sh
wget -O install_hauppage.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=10" && chmod +x
wget -O install_vdr.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=11" && chmod +x
install_vdr.sh
wget -O configure_vdr.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=12" && chmod +x
configure_vdr.sh
wget -O mk_channels_conf.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=14" && chmod +x
mk_channels_conf.sh
echo " ... fertig. Starte System- und VDR Installation..."
read -n1 -rsp $'Press any key to start system installation or Ctrl+C to exit...\n'
./install_system.sh
read -n1 -rsp $'Press any key to start network configuration or Ctrl+C to exit...\n'
./install_network.sh
read -n1 -rsp $'Press any key to mount hdd, configure \"video0\" directory and move \"home\" directory or Ctrl+C to exit...\n'
./mount_hdd.sh
read -n1 -rsp $'Press any key to install Sundtek DVB-C driver or Ctrl+C to exit...\n'
./install_sundtek.sh
read -n1 -rsp $'Press any key to install Hauppauge DVB-C Firmware or Ctrl+C to exit...\n'
./install_hauppage.sh
```

```
read -n1 -rsp '$Press any key to install VDR and VDRadmin-AM or Ctrl+C
to exit...\n'
./install_vdr.sh
read -n1 -rsp '$Press any key to configure VDR and VDRadmin-AM or
Ctrl+C to exit...\n'
./configure_vdr.sh
read -n1 -rsp '$Press any key to generate \"channels.conf\" file or
Ctrl+C to exit...\n'
./mk_channels_conf.sh
echo "Done!"
read -n1 -rsp '$Press any key to reboot your system now (recommended!)
or Ctrl+C to exit...\n'
shutdown -r now
```

From:

<https://www.von-thuelen.de/> - Christophs DokuWiki

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Last update: **2021/05/01 18:36**

