

Inhaltsverzeichnis

Installation	3
KNXD über USB Schnittstelle	3
KNXD über Serielle Schnittstelle	3
Mit .ini Datei	3
Verbindung testen	5

KNXD auf Raspberry 3

Installation

- knxd build und install
 - <https://github.com/knxd/knxd> → Building

KNXD über USB Schnittstelle

- In der /etc/knxd.conf:

```
KNXD_OPTS="-e 0.0.1 -E 0.0.2:8 -DTRS -b usb:"
```

KNXD über Serielle Schnittstelle

- Den Benutzer knxd den Gruppen dialout und tty hinzufügen:

```
$ sudo adduser knxd dialout  
$ sudo adduser knxd tty
```

- Serielle Schnittstelle EIN
- Bluetooth AUS
 - in der Datei /boot/config.txt am Ende:

```
dtoverlay=pi3-disable-bt
```

- Bluetooth Modem disconnect:

```
$ sudo systemctl disable hciuart
```

- In der /etc/knxd.conf:

```
KNXD_OPTS="-e 0.0.1 -E 0.0.2:8 -DTRS -b tpuarts:/dev/ttyAMA0"
```

Mit .ini Datei

- In der /etc/knxd.conf:

```
KNXD_OPTS=/etc/knxd.ini
```

- */etc/knxd.ini*

/etc/knxd.ini

```
[main]
addr = 0.0.1
client-addr = 0.0.2:8
connections = server,B.tpuarts
systemd = systemd

[B.tpuarts]
device = /dev/ttyAMA0
driver = tpuart

[server]
server = ets_router
discover = true
debug = debug-server
router = router
tunnel = tunnel

[debug-server]
name = mcast:knxd

[router]
filters = A.pace

[A.pace]
delay = 50
filter = pace

[tunnel]
filters = log

[systemd]
debug = debug-systemd
filters = log

[debug-systemd]
error-level = 0x9
trace-mask = 0xfc
```

Verbindung testen

- Starte teste und enable KNX Deamon
 - `systemctl start knxd`
 - `systemctl status knxd`
 - `systemctl enable knxd`
- Teste Verbindung:
 1. `knxtool vbusmonitor1 local:`
 2. `knxtool vbusmonitor1 ip:<ip-adresse>`
 - Dann sollte sowas ausgegeben werden:

```
LPDU: BC 11 6F 0C 2C E3 00 80 06 40 38 :L_Data low from
1.1.111 to 1/4/44 hops: 06 T_DATA_XXX_REQ A_GroupValue_Write
06 40
LPDU: BC 11 7A 1E 90 E3 00 80 0C 32 FB :L_Data low from
1.1.122 to 3/6/144 hops: 06 T_DATA_XXX_REQ A_GroupValue_Write
0C 32
LPDU: BC 11 74 15 90 E3 00 80 0C 7B B7 :L_Data low from
1.1.116 to 2/5/144 hops: 06 T_DATA_XXX_REQ A_GroupValue_Write
0C 7B
LPDU: BC 11 78 1C 29 E1 00 81 7F :L_Data low from 1.1.120 to
3/4/41 hops: 06 T_DATA_XXX_REQ A_GroupValue_Write (small) 01
LPDU: BC 11 78 1C 2A E2 00 80 21 5F :L_Data low from 1.1.120
to 3/4/42 hops: 06 T_DATA_XXX_REQ A_GroupValue_Write 21
LPDU: BC 11 71 11 90 E3 00 80 0C 30 FD :L_Data low from
1.1.113 to 2/1/144 hops: 06 T_DATA_XXX_REQ A_GroupValue_Write
0C 30

...
```