

TCE Tinycore Linux Project englisch

[Versionsgeschichte interaktiv durchsuchen](#)

[Visuell Wikitext](#)

Version vom 26. Juni 2012, 10:31 Uhr (Quelltext anzeigen)

[OE2WAO](#) ([Diskussion](#) | [Beiträge](#))

(Die Seite wurde neu angelegt: „More information on the hamradio TCE - tinycore linux project coming here soon“)

Aktuelle Version vom 8. Januar 2023, 15:01 Uhr (Quelltext anzeigen)

[OE2WAO](#) ([Diskussion](#) | [Beiträge](#))

Markierung: [Visuelle Bearbeitung](#)

(18 dazwischenliegende Versionen desselben Benutzers werden nicht angezeigt)

Zeile 1:

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- + **[[Datei:Deutschland-flagge.gif]] Für die deutsche Version dieses Projekts [[TCE Tinycore_Linux_Projekt | >>hier klicken<<]]**
- + **==Intro==**
- + **[[Bild:PPC.jpg|thumb|500MHz LowPower industrial PC]]**
- + **This hamradio software project is based on [http://www.tinycorelinux.com TCE - Tinycore Linux], an embedded software system used on plattformen like industrial pc, ALIX and others, and offers**
- + *** Packet Radio - (multichannel /multibaud e.g. 1k2 2k4 4k8 9k6..)**
- + ***APRS - UDPGATE (IGATE, also multibaud, e.g. 1k2 and 9k6)**
- + ***LoRa APRS (NEW!) incl. Mic-E**
- + ***SAMNET**
- + ***lightning detection**
- + ***Radiosondes RX (weather balloon tracker)**
- + ***small web servers**

More information on the hamradio TCE -
tinycore linux project coming here soon

+ ***Weather station with different
sensors**

+ ***SVX Link (Echolink)**

+ ***WINLINK Global Radio Email (RMS
Packet)**

+ ***Switching and measuring center**

+

+ **especialy in networks like HAMNET
and similar.
**

+ **One goal is a minimum on material
expenditure and also a minimal
current consumption, followed by a
maximum of features**

+

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+

+ **==Hardware==**

+ **[[Bild:12v-anschluss.
jpg|thumb|polarity industrial PC]]**

+ **DH2IW Wolfgang, OE2WAO Mike and
OE5DXL Chris are doing experiments
with discarded industrial pc
hardware, a 500MHz AMD Geode CPU
with up to 256MB of RAM, and a
minimal power input of <5Watt (for
remaining stock ask [<http://www.oe2wao.info> OE2WAO]).
**

+

+ **But every other hardware plattform
like ALIX, Raspberry Pi or similar will
do.
**

+ **The operating system is placed on a
CF/SD memory card (>32MB).
**

+

+ If available the internal, or in other cases an USB soundcard is used for operating AFSK/FSK modulation. One special character of working devices is a 3rd connector beside microphone and line out, the line in. Because these device are real stereo and make it possible to operate two separate channels even on one sound card.

+

+ ===Connections and conversion of our used industrial PC===

+ [[Bild:12v-umbau.jpg|thumb|power supply conversion 12V]]

+ There are several connectors (COM, USB, network) on the frontside of our panels, as you can see. For correct polarity it is important to connent the + pole to the right pin of the 3pol power supply connector, the pin which is closer to the USB ports. The negative pole is the left pin.

+

+ The normal board supply is 24V.

+ That we can use it with our 12V power supply, we have to do a little modification. Just add a 270k Ohm resistor on the bottom side of the power supply as shown in the picture.

+

+ ===Soundcard===

+ If there is no onboard sound available, you can use a USB soundcard instead. Suggested types you can find [[Geeignete Soundkarten|here]].

+

+ ==Software==

- + **A ready-to-use software image is located on the [http://www.oe2wao.info/tce OE2WAO Server] (e.g. tc455x-128.zip means version 4.55 with GUI on 128MB data drive)
**
- + **There is also a version for raspberry pi hardware in test, and available soon.**
- +
- + **DL1NUX has created a wiki on installation and operating the dxlToolchain <http://dxlwiki.dl1nux.de/> (german)**
- +
- + **===Software schematic===**
- + **[[Datei:Udpboxs.jpg]]**
- +
- + **==Help==**
- +
- + **If you need help on configuring the software packages you can contact OE5DXL on packet radio convers channel 501.**

Aktuelle Version vom 8. Januar 2023, 15:01 Uhr



Für die deutsche Version dieses Projekts >>[hier klicken](#)<<

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Intro

This hamradio software project is based on [TCE - Tinycore Linux](#), an embedded software system used on platforms like industrial pc, ALIX and others, and offers

- Packet Radio - (multichannel/multibaud e. g. 1k2 2k4 4k8 9k6..)
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One goal is a minimum on material expenditure and also a minimal current consumption, followed by a maximum of features

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500MHz LowPower industrial PC

Hardware

DH2IW Wolfgang, OE2WAO Mike and OE5DXL Chris are doing experiments with discarded industrial pc hardware, a 500MHz AMD Geode CPU with up to 256MB of RAM, and a minimal power input of <5Watt (for remaining stock ask [OE2WAO](#)).

But every other hardware platform like ALIX, Raspberry Pi or similar will do.

The operating system is placed on a CF/SD memory card (>32MB).



polarity industrial PC

If available the internal, or in other cases an USB soundcard is used for operating AFSK/FSK modulation. One special character of working devices is a 3rd connector beside microphone and line out, the line in. Because these device are real stereo and make it possible to operate two separate channels even on one sound card.

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Soundcard

If there is no onboard sound available, you can use a USB soundcard instead. Suggested types you can find [here](#).

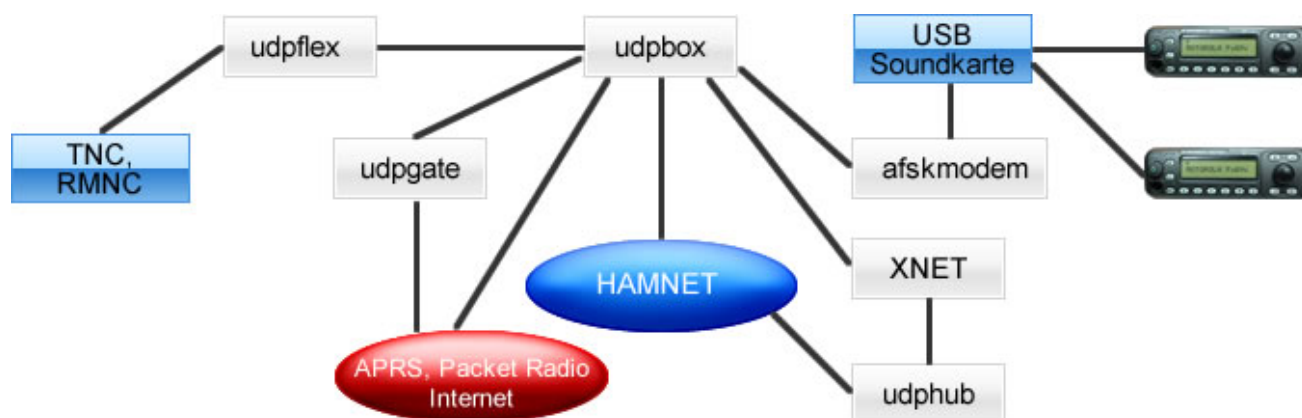
Software

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Software schematic



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