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TCE Tinycore Linux Project englisch

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Version vom 7. August 2020, 09:52 Uhr (

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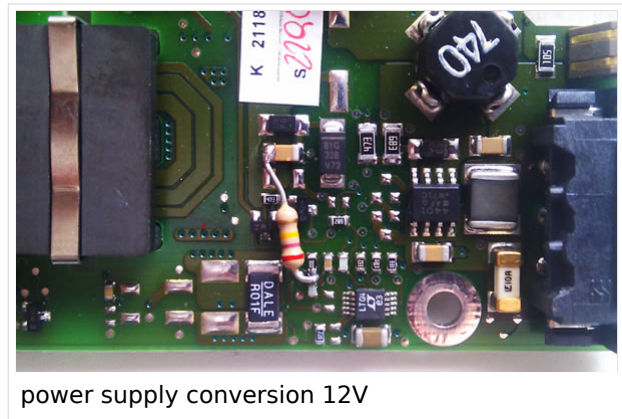
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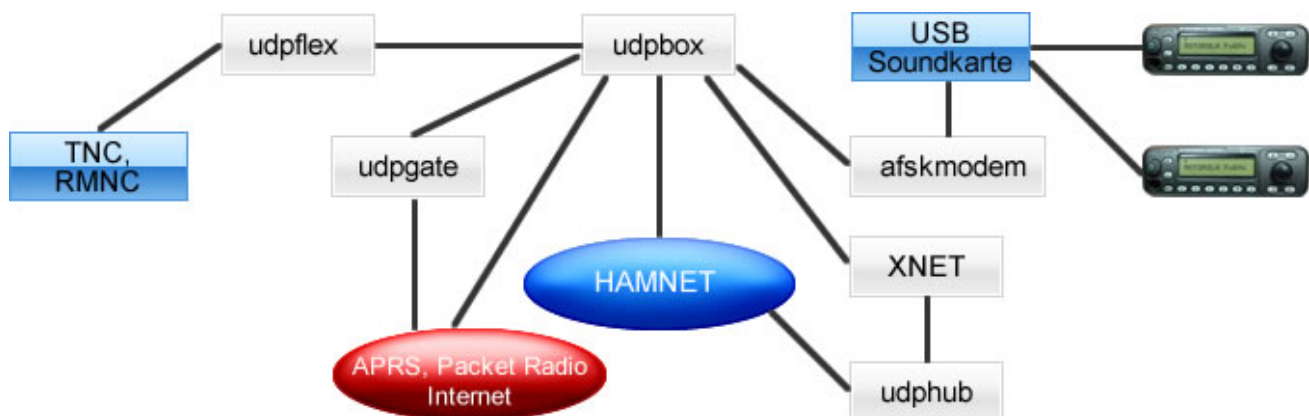
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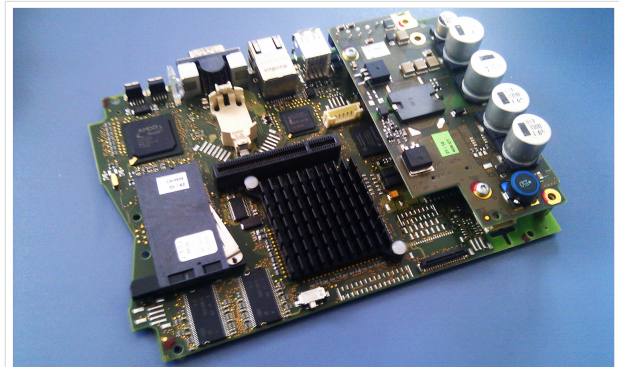
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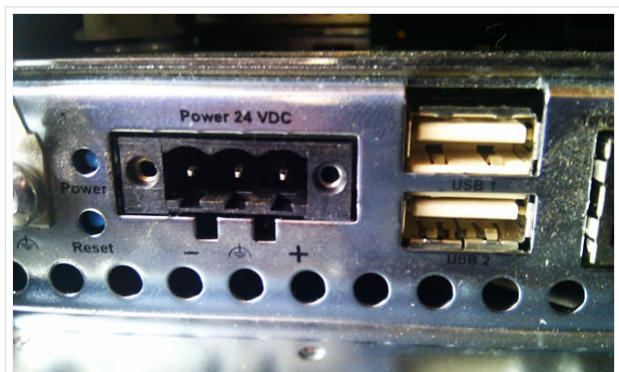
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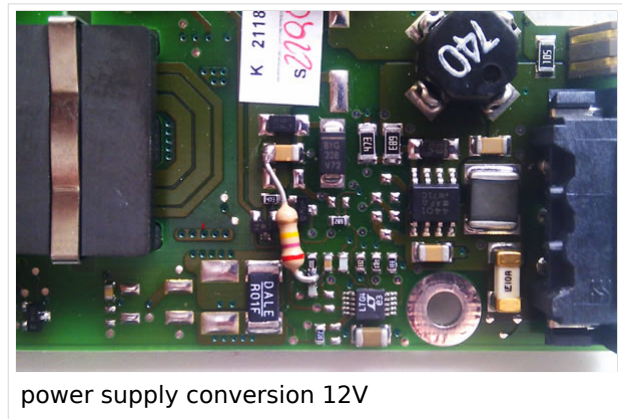
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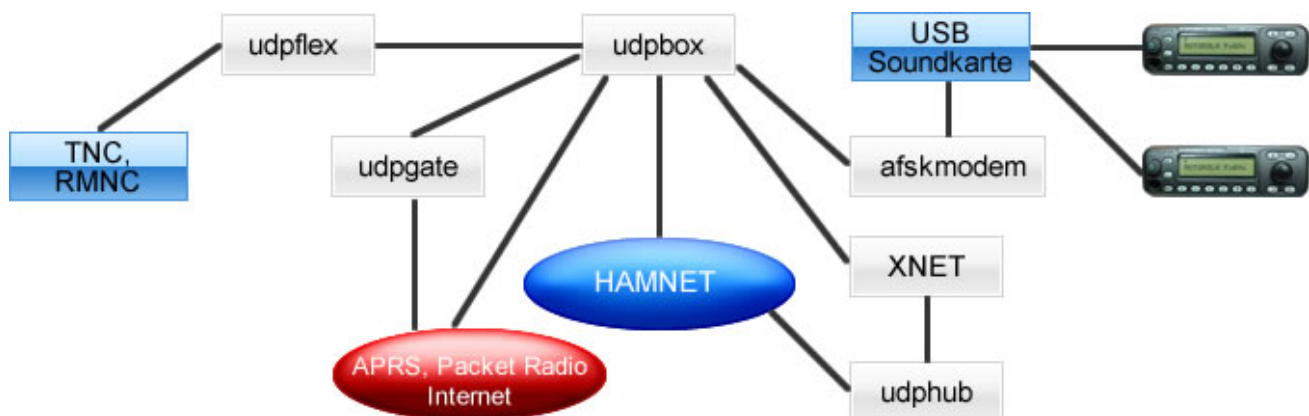
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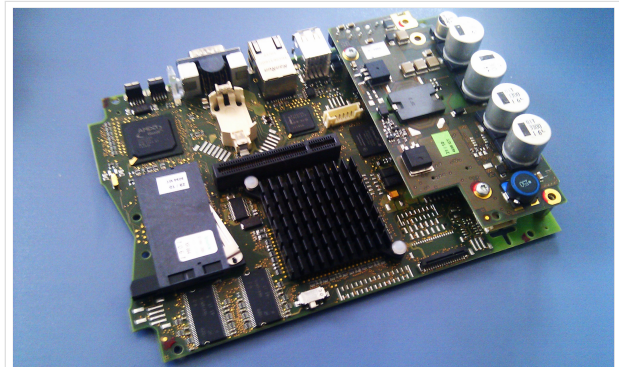
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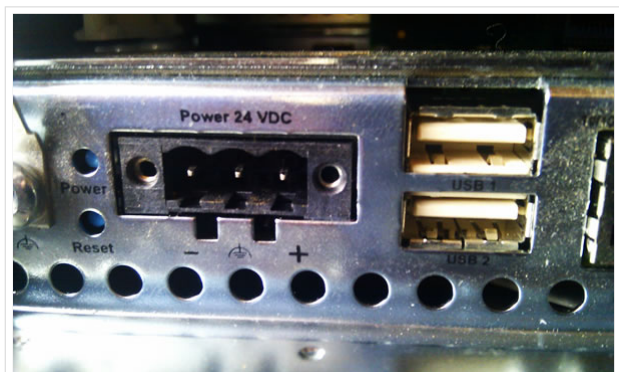
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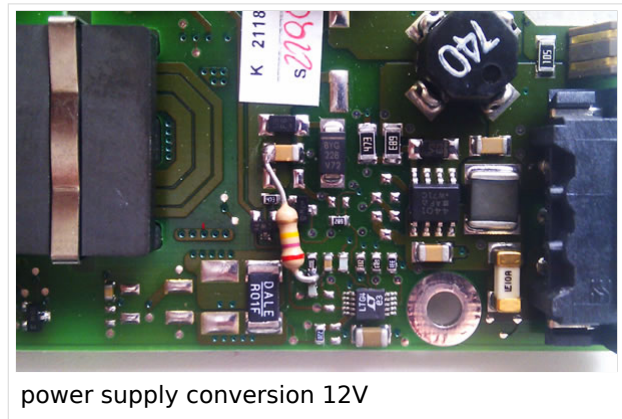
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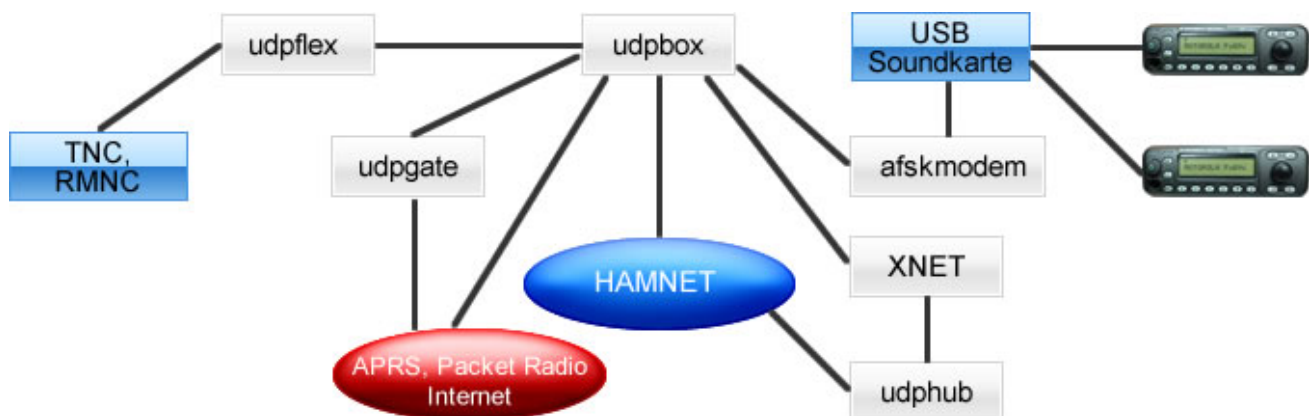
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Version vom 7. August 2020, 09:52 Uhr (
Quelltext anzeigen)

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

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

Markierung: [Visuelle Bearbeitung](#)

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Zeile 2:

==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 **services and possibilities like**

– ***packet radio,**

– ***BBS,**

– ***APRS,**

– ***lightning log,**

– ***small webserver,**

– ***SVX-Link (Echolink)**

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+ ***Switching and measuring center**

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especially 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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Zeile 16:

==Hardware==

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

- DH2IW Wolfgang, OE2WAO Mike and OE5DXL Chris are doing **first** 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 memory card (>32MB).

- **A** 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 on one sound card.

- ===Connections and conversion of **the** used industrial **pc**===

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

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

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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.

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DL1Nux has created a wiki on installation and operating the dxlToolchain <http://dxlwiki.dl1nux.de/> (german)

===Software schematic===

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



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

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Intro

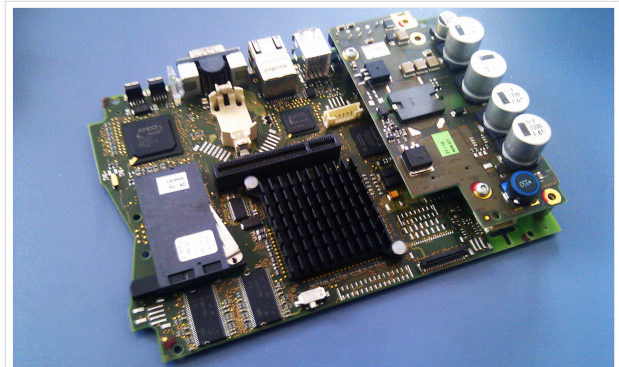
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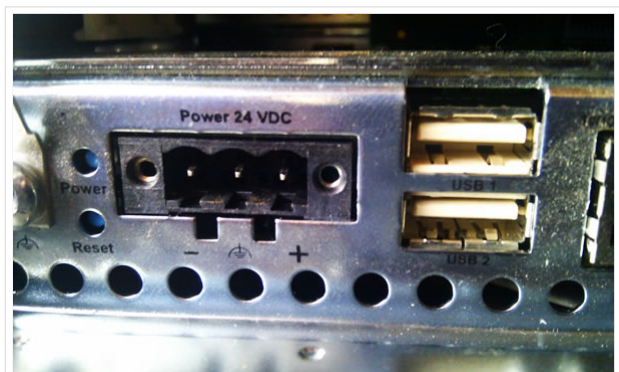
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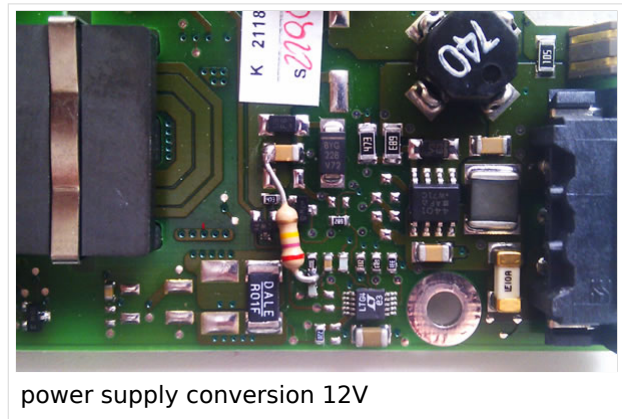
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The normal board supply is 24V.
That we can use it with our 12V power supply, we have to do a little modification. Just add a 270k Ohm resistor on the bottom side of the power supply as shown in the picture.



Soundcard

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

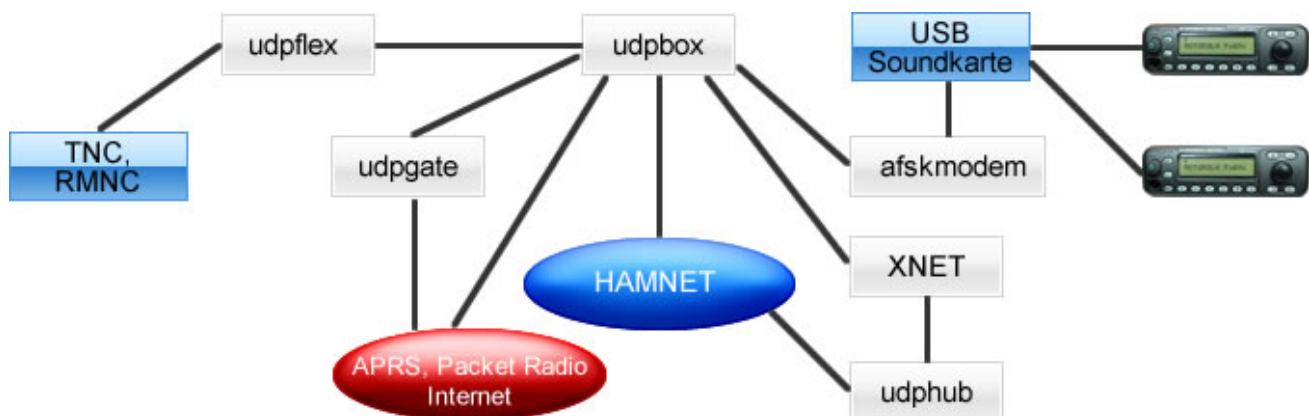
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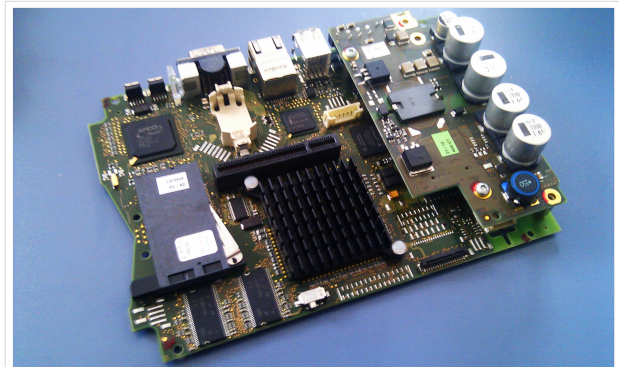
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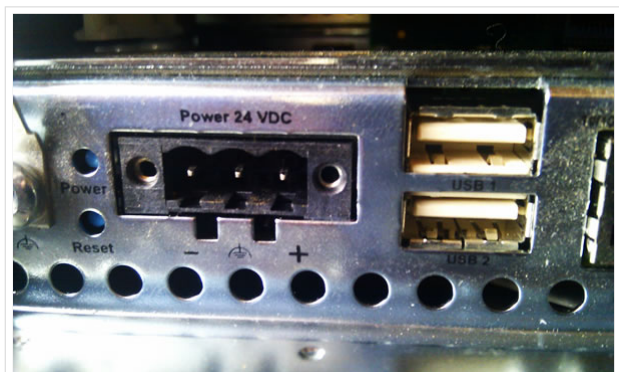
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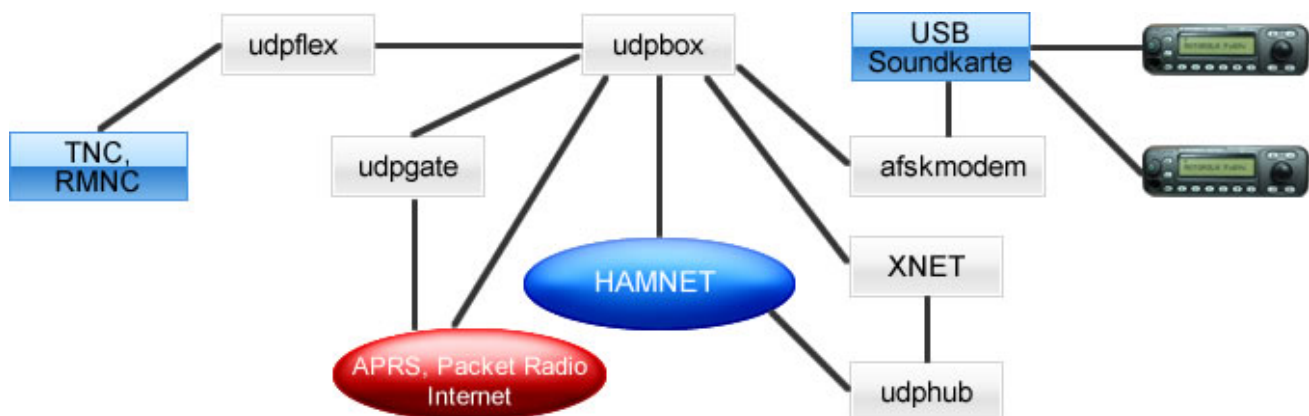
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