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## Inhaltsverzeichnis

## TCE Tinycore Linux Project englisch

[Versionsgeschichte interaktiv durchsuchen](#)

[Visuell Wikitext](#)

**Version vom 12. September 2013, 21:54**

**Uhr (Quelltext anzeigen)**

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

([→Software](#))

[← Zum vorherigen Versionsunterschied](#)

**Aktuelle Version vom 8. Januar 2023, 15:**

**01 Uhr (Quelltext anzeigen)**

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

Markierung: [Visuelle Bearbeitung](#)

(8 dazwischenliegende Versionen desselben Benutzers werden nicht angezeigt)

**Zeile 1:**

==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,**

– **\*APRS,**

– **\*lightning log,**

– **\*small webserver,**

– **\*SVX-Link (Echolink)**

**Zeile 1:**

**[[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**

**\*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. 		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		One goal is a minimum on material expenditure and also a minimal current consumption, followed by a maximum of features
More information on the hamradio TCE - tinycore linux project coming here soon		More information on the hamradio TCE - tinycore linux project coming here soon
-		
==Hardware==		==Hardware==
[[Bild:12v-anschluss.jpg thumb polarity industrial PC]]		[[Bild:12v-anschluss.jpg thumb polarity industrial PC]]
-	+	DH2IW Wolfgang, OE2WAO Mike and OE5DXL Chris are doing <b>first</b> 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 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 <b>operating</b> AFSK/FSK modulation. One special

- **A** USB soundcard is used for AFSK **mods**. 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.

- + 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 **the** used industrial **pc**===

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

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

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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.  
<br>

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#### Zeile 35:

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)<br>

There is also a version for raspberry pi hardware in test, and available soon.

#### Zeile 43:

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**DL1NUX has created a wiki on installation and operating the dxlToolchain <http://dxlwiki.dl1nux.de/> (german)**

===Software schematic===

[[Datei:Udpboxs.jpg]]


==Help==

==Help==

- If you need help on configuring the software packages you can contact OE5DXL on packet radio convers channel **4 or 4711**.

+ 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

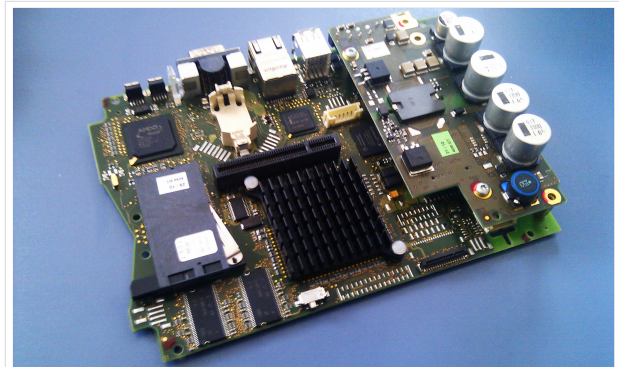
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More information on the hamradio TCE - tinycore linux project coming here soon



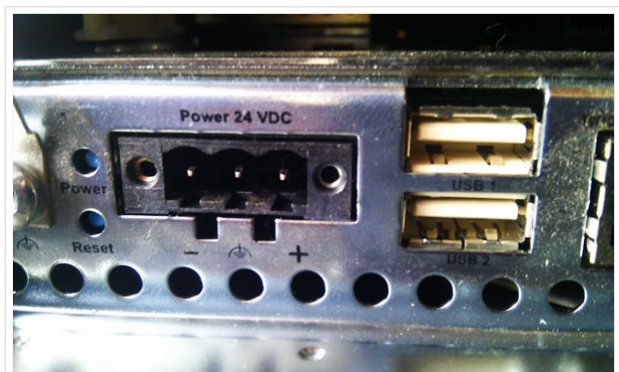
500MHz LowPower industrial PC

## 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).



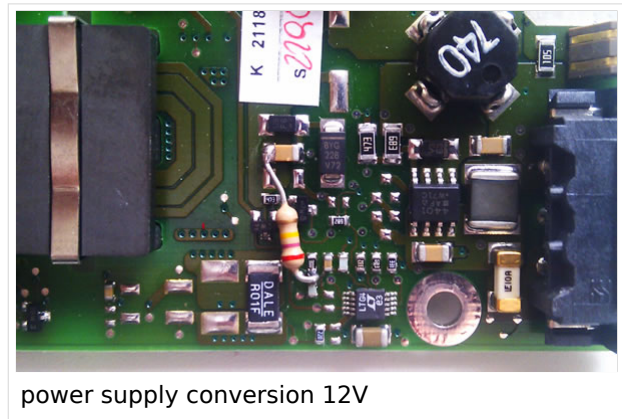
polarity industrial PC

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## Connections and conversion of our used industrial PC

There are several connectors (COM, USB, network) on the frontside of our panels, as you can see. For correct polarity it is important to connect 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 [here](#).

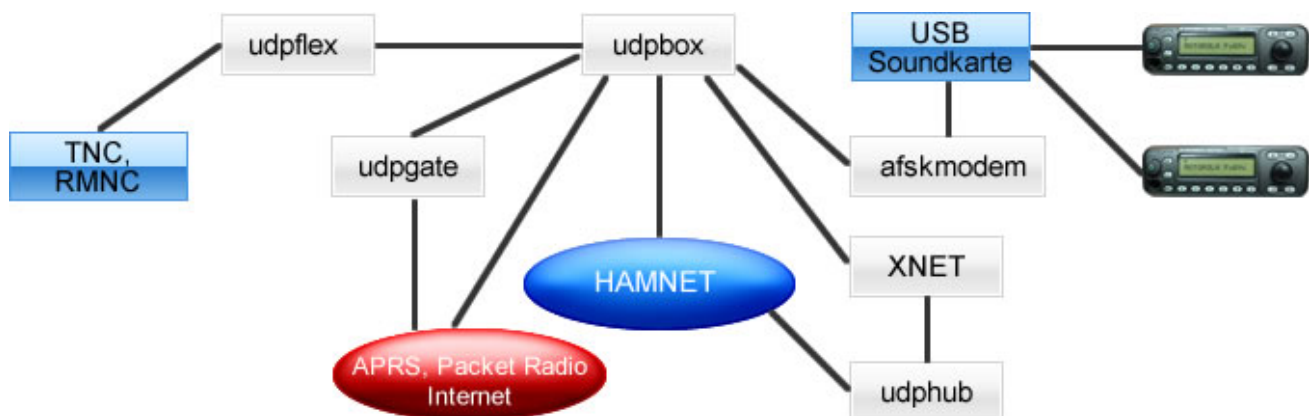
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## Software schematic



## Help

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