
Inhaltsverzeichnis

TCE Tinycore Linux Project englisch

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Version vom 11. Juli 2012, 11:12 Uhr (Quelltext anzeigen)

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

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

Markierung: [Visuelle Bearbeitung](#)

(16 dazwischenliegende Versionen desselben Benutzers werden nicht angezeigt)

Zeile 1:	Zeile 1:
– ==Einleitung==	+ [[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]]	+ [[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	+ 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,	+
– *APRS,	+ * Packet Radio - (multichannel /multibaud e.g. 1k2 2k4 4k8 9k6..)
– *lightning log,	+ *APRS - UDPGATE (IGATE, also multibaud, e.g. 1k2 and 9k6)
– *small webserver,	+ *LoRa APRS (NEW!) incl. Mic-E
– *SVX-Link (Echolink)	+ *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

+

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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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Zeile 12:

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

Zeile 21:

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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==		==Help==
-	If you need help on configuring the software packages you can contact us on packet radio convers channel 44.	+	If you need help on configuring the software packages you can contact OE5DX L 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..)
- APRS - UDPGATE (IGATE, also multibaud, e. g. 1k2 and 9k6)
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More information on the hamradio TCE - tinycore linux project coming here soon



500MHz LowPower industrial PC

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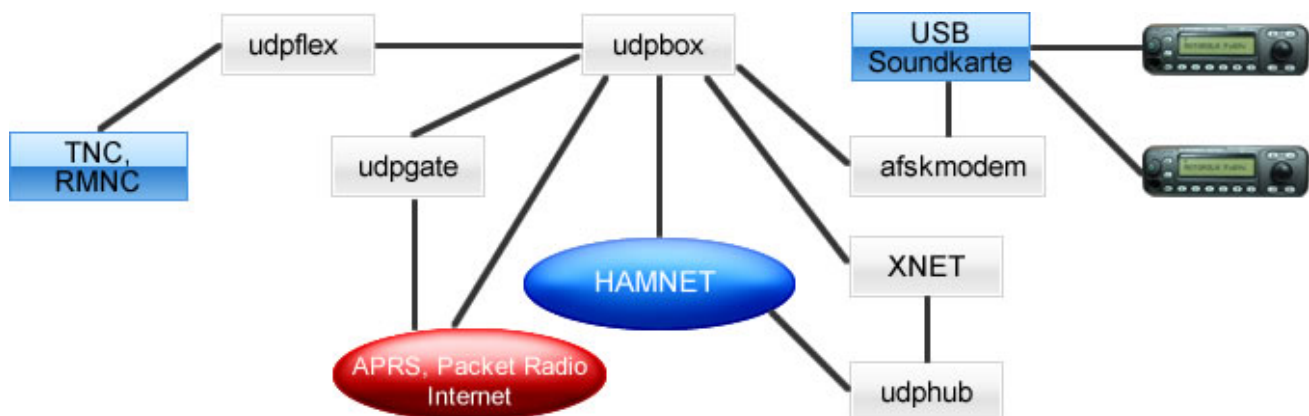
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Software schematic



Help

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