

Inhaltsverzeichnis

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TCE Tinycore Linux Project englisch

[Versionsgeschichte interaktiv durchsuchen](#)

[Visuell Wikitext](#)

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

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

[← Zum vorherigen Versionsunterschied](#)

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<<]]
[[Bild:PPC.jpg thumb 500MHz LowPower industrial PC]]	[[Bild:PPC.jpg thumb 500MHz LowPower industrial PC]]
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*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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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]).

+

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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

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

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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 [[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)

+

+

+ [[Datei:Udpboxs.jpg]]

==Help==

+ software packages you can contact **OE5DX**
L on packet radio convers channel **501**.

Inhaltsverzeichnis

Ausgabe: 26.04.2024

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)
- 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

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



500MHz LowPower industrial PC

Hardware

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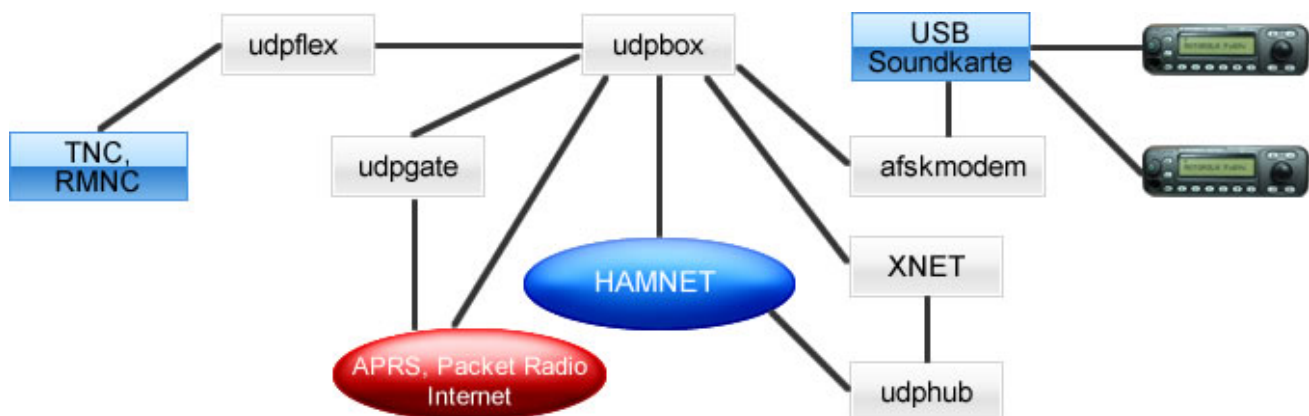
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DL1NIX has created a wiki on installation and operating the dxlToolchain <http://dxlwiki.dl1nux.de/> (german)

Software schematic



Help

If you need help on configuring the software packages you can contact OE5DXL on packet radio convers channel 501.

TCE Tyncore Linux Project englisch und Benutzer:OE2WAO: Unterschied zwischen den Seiten

VisuellWikitext

Version vom 11. Juli 2012, 11:12 Uhr (Quelltext anzeigen)
OE2WAO (Diskussion | Beiträge)

Aktuelle Version vom 9. August 2020, 23:41 Uhr (Quelltext anzeigen)
OE2WAO (Diskussion | Beiträge)
(Die Seite wurde neu angelegt:
„https://oe2wao.info“)

Zeile 1:

– **==Einleitung==**

– **[[Bild:PPC.ipq|thumb|500MHz LowPower industrial PC]]**

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– ***packet radio,**

– ***APRS,**

– ***lightning log,**

– ***small webserver,**

– ***SVX-Link (Echolink)**

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

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

–

– **More information on the hamradio TCE - tyncore linux project coming here soon**

–

–

Zeile 1:

+ **https://oe2wao.info**

-
- ==Help==
 -
 - If you need help on configuring the software packages you can contact us on packet radio convers channel 44.
-

Aktuelle Version vom 9. August 2020, 23:41 Uhr

<https://oe2wao.info>

TCE Tinycore Linux Project englisch und Geeignete Soundkarten: Unterschied zwischen den Seiten

VisuellWikitext

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

OE2WAO (Diskussion | Beiträge)

Aktuelle Version vom 19. September 2014, 15:15 Uhr (Quelltext anzeigen)

OE2LSP (Diskussion | Beiträge)
(→Einkanal Karten (Mono))

Zeile 1:

==Einleitung==

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

–

Zeile 1:

Nachfolgend eine Auflistung geeigneter USB Soundkarten für das TCE Projekt.

+

Der Begriff Mono bzw. Stereo bezieht sich in unserem Fall auf den Line-In Eingang der Soundkarte.

+

"The term MONO or STEREO in our case refers to the line-in input of the soundcard."

+

==Einkanal Karten (Mono)==

+

		+ Diese Karten sind geeignet für Anlagen mit nur einer geplanten Betriebsart am TCE.

		+ "These cards are suitable for systems with only one mode of operation envisaged in the TCE."
		+ [[Bild:Usb-sound1.jpg USB Soundkarte]]
		+ [[Bild:Usb-sound2.jpg USB Soundkarte]]
- ==Help==	+ ==Zweikanal Karten (Stereo)==	+ Diese Karten sind geeignet für Anlagen mit einer geplanten Betriebsart auf zwei unterschiedlichen Geräten, oder generell für zwei verschiedene Betriebsarten (APRS + Packet Radio) am TCE. So wird dann bspw. auf dem linken LS Kanal Packet Radio mit 1k2 und 9k6 gearbeitet, und der rechte LS Kanal ist für APRS (analog dazu der stereo Line-In).

		+ "These cards are suitable for systems with a planned operation on two different devices, or generally for two different modes (APRS + Packet Radio) on TCE. So then, for example, on the left speaker channel packet radio with 1k2 and 9k6, and on the right speaker channel APRS (analogous the stereo line-in)."
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	+	

- + **==Nicht geeignete Karten==**
- + **Diese Karten sind aufgrund der unzureichenden Eingangskreise nicht bzw. nur bedingt nach Umbau verwendbar.**
- + **"These cards are NOT suitable due to insufficient input circuits."**
- +
- + **[[Bild:Usb-sound0.jpg|USB Soundkarte]]**
- + **[[Bild:Usb-sound3.jpg|USB Soundkarte]]**

Aktuelle Version vom 19. September 2014, 15:15 Uhr

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Intro

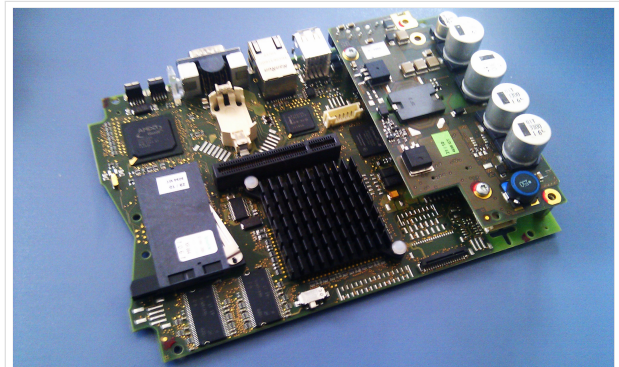
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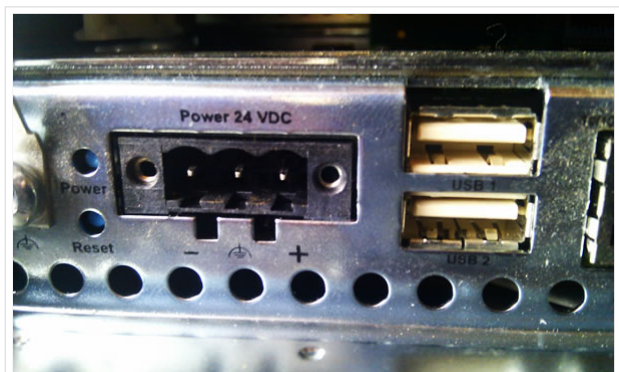
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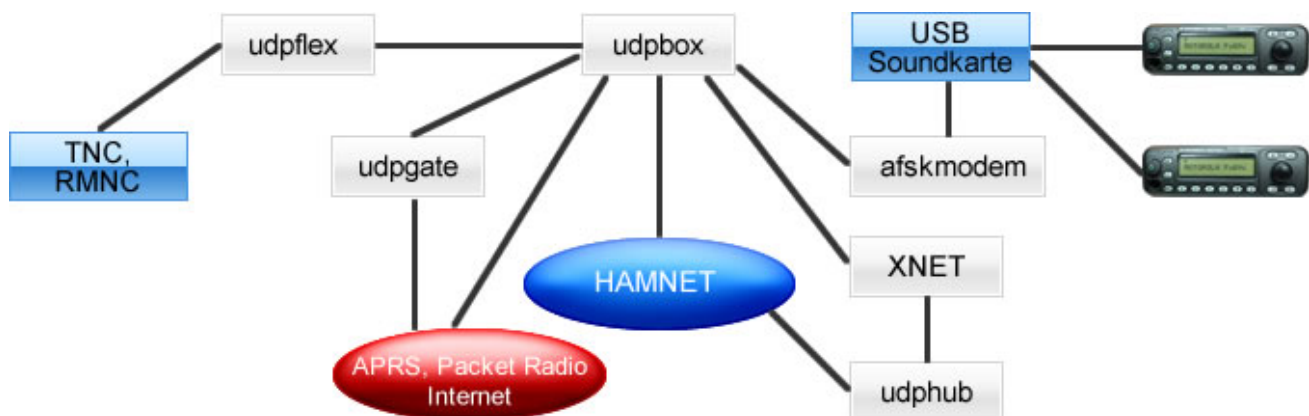
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Zeile 1:

+ **[[Kategorie:Digitaler Backbone]]**

+ **[[Kategorie:Digitale_Betriebsarten]]**

+ **[[Kategorie:APRS]]**

+ **[[Kategorie:Packet-Radio und I-Gate]]**

+

+ **[[Datei:Englisch.jpg]] For english version on this project [[TCE Tinycore Linux Project englisch | >>click here<<]]**

+

==Einleitung==

+ **[[Bild:PPC.jpg|thumb|500MHz LowPower Industrie PC]]**

+ **Hierbei handelt es sich um eine Amateurfunk Toolchain, welche bpsw. unter Einsatz von [http://www.tinycorelinux.com TCE - Tinycore Linux] auf Embedded System wie Industrie PC, ALIX u.d.g. Services wie**

+

+ ***[[[:Kategorie:Packet-Radio und I-Gate | Packet Radio]] - "(Multibaud bspw. 1k2 2k4 4k8 9k6..)"**

+ ***[[[:Kategorie:APRS | APRS]] - UDPGATE "(IGATE, ebenfalls Multibaud bspw. 1k2 und 9k6)"**

+ ***LoRa APRS (NEU!) inkl. Mic-E**

	+ *[[SAMNET SAMNET]]
	+ *Blitzortung
	+ *Radiosonden RX (Wetterballon)
	+ *kleine Webserver
	+ *Wetterstation mit unterschiedlichen Sensoren
*SVX-Link (Echolink)	*SVX-Link (Echolink)
- especially in networks like HAMNET and similar. 	+ *[:Kategorie:WINLINK WINLINK Global Radio E-Mail (RMS Packet)]
- One goal is a minimum on material expenditure and also a minimal current consumption, followed by a maximum of features	+ *Schalt- und Meßzentrale
	+
	+ u.v.m. unter anderem im HAMNET anbi ndet.
	+ Ziel ist ein minimaler Aufwand und minimale Stromaufnahme, bei maximalem Funktionsumfang.
	+
	+ ==[[TCE Hardware Hardware]]==
	+ [[TCE Hardware]] -> Informationen zur benötigten Hardware
	+
	+ ==[[TCE Software Software]]==
	+ DL1NUX hat dankenswerter Weise in Wiki für dieses Projekt erstellt:
	+
	+ [http://dxlwiki.dl1nux.de/ http://dxlwiki.dl1nux.de]
	+
	+ ===[[TCE Software Einstellungen & Bedienung]]===

			+ Informationen zur Installation, Konfiguration und zu den einzelnen Modulen
			+ ===[[TCE Software Installation Installation & Download]]===
			+ Dieses Kapitel erklärt die Installation vom TCE Image unter dem jeweilig verwendeten Betriebssystem
			+
			+ ==Einsatz==
- More information on the hamradio TCE - tinycore linux project coming here soon			+ [[Bild:Db0wgs-aprs-k.jpg thumb DB0WGS APRS & PR Digi]]
			+ Eingesetzt wird das System in verschiedenen Konfigurationen und Varianten bereits bspw. bei OE1XAR, OE1XUR, OE2XAP, OE2XGR, OE2XWR, OE2XZR, OE3XAR, OE3XER, OE5DXL, OE5FHM, OE5HPM, OE5XAR, OE5XBR, OE5XDO, OE5XGR, OE5XUL, OE7XGR sowie bei DB0FFL, DB0KLI, DB0WGS, DC9RD, DH2IW, DL3RCG, DL8RDL, DK5RV und IQ3AZ.
			+ Weitere Tests laufen unter anderem in weiteren Teilen von OE, sowie in IK, DL und PA.
- ==Help==			+ ==Hilfe==
- If you need help on configuring the software packages you can contact us on packet radio convers channel 44.			+ Wer Hilfe bei der Konfiguration der Softwarekomponenten benötigt, kann Fragen direkt im Packet Radio Convers auf Kanal 501, oder per PR Mail an OE5DXL stellen.

Aktuelle Version vom 8. Januar 2023, 14:52 Uhr



For english version on this project >>[click here](#)<<

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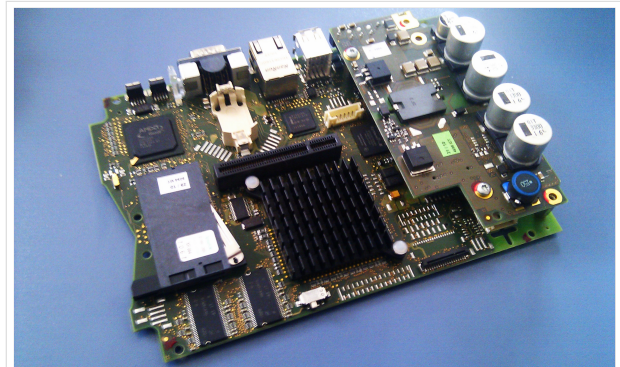
Einleitung

Hierbei handelt es sich um eine Amateurfunk Toolchain, welche bspw. unter Einsatz von [TCE - Tinycore Linux](#) auf Embedded System wie Industrie PC, ALIX u.d.g. Services wie

- [Packet Radio](#) - (Multibaud bspw. 1k2 2k4 4k8 9k6..)
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- Schalt- und Meßzentrale

u.v.m. unter anderem im HAMNET anbindet.

Ziel ist ein minimaler Aufwand und minimale Stromaufnahme, bei maximalem Funktionsumfang.



500MHz LowPower Industrie PC

Hardware

[TCE Hardware](#) -> Informationen zur benötigten Hardware

Software

DL1INUX hat dankenswerter Weise in Wiki für dieses Projekt erstellt:

<http://dxlwiki.dl1nux.de>

Einstellungen & Bedienung

Informationen zur Installation, Konfiguration und zu den einzelnen Modulen

Installation & Download

Dieses Kapitel erklärt die Installation vom TCE Image unter dem jeweilig verwendeten Betriebssystem

Einsatz

Eingesetzt wird das System in verschiedenen Konfigurationen und Varianten bereits bspw. bei OE1XAR, OE1XUR, OE2XAP, OE2XGR, OE2XWR, OE2XZR, OE3XAR, OE3XER, OE5DXL, OE5FHM, OE5HPM, OE5XAR, OE5XBR, OE5XDO, OE5XGR, OE5XUL, OE7XGR sowie bei DB0FFL, DB0KLI, DB0WGS, DC9RD, DH2IW, DL3RCG, DL8RDL, DK5RV und IQ3AZ.

Weitere Tests laufen unter anderem in weiteren Teilen von OE, sowie in IK, DL und PA.



DB0WGS APRS & PR Digi

Hilfe

Wer Hilfe bei der Konfiguration der Softwarekomponenten benötigt, kann Fragen direkt im Packet Radio Convers auf Kanal 501, oder per PR Mail an OE5DXL stellen.