

KARO TX Computer on Module
Linux and Windows Embedded
Board Support Package
Features

For the latest software and documentation refer to:

www.karo-electronics.com/download.html

1 Windows Embedded driver list

Driver	TX25	TX27	TX28	TX48	TX51	TX53	TX6
Windows Embedded CE Version	CE6 R3	CE6 R3	CE6/EC7	EC7	CE6 R3	EC7	EC7
Kernel debugger (Ethernet KITL)	◆	◆	◆/◆	◆	◆	◆	◆
Ethernet	◆	◆	◆/◆	◆	◆	◆	◆
LCD display	◆	◆	◆/◆	◆	◆	◆	◆
Backlight	◆	◆	◆/◆	◆	◆	◆	◆
USB OTG	◆	◆	◆/◆	◆	◆	◆	◆
USB Host	◆	◆	◆/◆	◆	◆	◆	◆
NAND Flash (Persistent Storage)	◆	◆	◆/◆	◆	◆	◆	◆
RTC	◆ ¹⁾	◆	◆/◆	◆	◆	◆	◆
SPI	◆	◆	◆/◆	-	◆	◆	-
I2C	◆	◆	◆/◆	◆	◆	◆	◆
General Purpose IO	◆	◆	◆/◆	-	◆	◆	◆
SD Host Controller	◆	◆	◆/◆	◆	◆	◆	◆
UART	◆	◆	◆/◆	◆	◆	◆	◆
General Purpose Timer	◆	◆	-	-	◆	-	-
UCB1400 Audio	◆	◆	N/A	N/A	◆	N/A	N/A
UCB1400 Touchscreen Controller	N/A	◆	N/A	N/A	◆	N/A	N/A
SGTL5000 Audio	◆	◆	◆/◆	-	◆	◆	◆
TSC2007 Touchscreen Controller	◆	◆	◆/◆	-	◆	◆	◆
Keypad	◆	◆	◆/◆	-	◆	◆	◆
Watchdog	◆	◆	◆/◆	-	◆	◆	◆
Internal Touchscreen Controller	◆	N/A	◆/◆	◆	N/A	N/A	N/A
Internal ADC	◆	N/A	◆/-	-	N/A	N/A	N/A
CAN	◆	N/A	◆/◆	-	N/A	◆	◆
Freescale Multimedia SDK/TI PowerVR	N/A	◆	◆/-	◆	◆	◆	◆
PolyTouch™ - Projektive-Capacitive Touch	◆ ²⁾	-	◆ ^{3)/◆²⁾}	◆ ³⁾	-	◆ ³⁾	◆ ³⁾

1) Support for I²C RTC DS1339 on custom baseboard, the i.MX25 internal RTC is not supported

2) Supports firmware version M06

3) Supports firmware version M06 and M09

Also refer to the links below for a list of catalog items included in particular Windows Embedded CE run-time licenses:

[Windows Embedded CE 6.0 Operating System Components](#)

[Windows Embedded Compact 7 Operating System Components](#)

Register and accept to receive download alerts and you'll get informed as soon as updates are available:

<http://www.karo-electronics.com/registration.html>

2 Linux BSP driver list

Driver	TX25	TX27	TX28	TX48	TX51	TX53	TX6
Linux kernel version	2.6.31	2.6.31	3.11-rc2	3.16	2.6.31/3.0	3.12	3.16
Ethernet	◆	◆	◆	◆	◆/◆	◆	◆
NAND Flash	◆	◆	◆	◆	◆/◆	◆	◆
USB Host	◆	◆	◆	◆	◆/◆	◆	◆
USB Device	◆	◆	-	◆	◆/◆	◆	◆
UART	◆	◆	◆	◆	◆/◆	◆	◆
I2C	◆	◆	◆	◆	◆/◆	◆	◆
SPI	◆	◆	◆	◆	◆/◆	◆	◆
PWM	◆	◆	◆	◆	◆/◆	◆	◆
SD Host Controller	◆	◆	◆	◆	◆/◆	◆	◆
LCD	◆	◆	◆	◆	◆/◆	◆	◆
VPU	N/A	◆	N/A	N/A	◆/-	-	◆
Watchdog	◆	◆	◆	◆	◆/◆	◆	◆
RTC	◆ ¹⁾	◆	◆	◆	◆/◆	◆	◆
Keypad interface	◆	◆	◆	◆	◆/-	◆	◆
Suspend/Wakeup	-	◆	◆	-	◆/-	◆	◆
General Purpose IO	◆	◆	◆	◆	◆/◆	◆	◆
UCB1400 Audio	◆	◆	N/A	N/A	N/A	N/A	N/A
UCB1400 Touchscreen Controller	◆	◆	N/A	N/A	N/A	N/A	N/A
SGTL5000 Audio	◆	◆	◆	◆	◆/-	◆	◆
TSC2007 Touchscreen Controller	-	◆	◆	◆	◆/◆	◆	◆
Internal Touchscreen Controller	◆	N/A	◆	◆	N/A	N/A	N/A
CAN	◆	N/A	◆	◆	N/A	◆	◆
PolyTouch™ - Projektive-Capacitive Touch	-	-	◆ ²⁾	◆ ³⁾	-	◆ ²⁾	◆ ³⁾
Dynamic Voltage Frequency Scaling (DVFS)	-	-	-	-	-	-	◆

1) Support for I²C RTC DS1339 on custom baseboard, the i.MX25 internal RTC is not supported

2) Supports firmware version M06

3) Supports firmware version M06 and M09

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3 Document revision history

Revision	Changes
2010-01-27	Initial release
2010-01-28	+ Freescale Multimedia SDK
2010-04-30	Update / Starterkit 5 v3 support schedule
2010-05-31	New: SGTL5000 audio support for TX25 and TX51 VPU support Changed: SGTL5000 and TSC2007 for TX27 on request
2010-06-09	New in Windows CE: Watchdog and TX27 keypad support
2010-08-20	WinCE & Linux SGTL5000 audio and TSC2007 touch support for TX27, TX27 Linux Kernel 2.6.31 Linux keypad driver for all TX modules, TX51 USB device support and suspend/wakeup
2010-09-21	i.MX25 internal RTC is not supported on TX25, RTC driver for external DS1339 announced.
2010-10-28	TX28 added
2011-02-09	TX28 Windows CE list updated, Linux release features announced
2011-03-18	TX28 Linux driver list updated.
2011-05-10	TX28 Linux NAND support added, USB support delayed to 05/11.
2011-06-01	TX28 Linux USB Host support added, USB Device tbd.
2011-06-17	TX53 added
2011-08-22	TX53 updated (Linux USB Device, PWM), TX51 Linux kernel version 3.0 added
2011-08-23	TX53 Windows CE CAN support added
2011-09-08	TX51 Windows CE GPIO support added
2011-10-26	Windows Embedded PolyTouch™ driver support added, TX53 Windows Embedded driver list updated
2011-12-20	TX28 Linux driver list updated, TX25 PolyTouch™ driver support added
2012-01-26	TX53 Windows CE PWM/SPI/Watchdog support added
2012-03-30	TX28 updated Linux & WinCE
2012-04-30	TX53 Linux drivers added: Keypad/Suspend/audio/CAN
2012-06-26	TX28 Windows Embedded Compact 7 support added / TX53 Linux update
2012-08-31	TX48 Linux support added
2012-10-19	TX48 Windows support added
2013-04-23	TX6 added
2013-07-01	TX48 and TX6 Linux updated
2013-08-02	TX48 Windows and TX28 Linux updated
2013-11-08	TX6 Linux kernel version 3.12 added, Linux DVFS driver support added
2013-11-13	TX53 Linux kernel version 3.12
2014-06-16	TX6 Linux kernel version 3.15, TX48 WinEC7 PowerV
2014-07-18	TX6, TX48 driver lists updated, Polytouch firmware note added

- ◆ Supported
- Not included
- N/A Not applicable
- Q1/10 Scheduled release date