

Developer Kit for Windows CE 6.0 R3 with DIMM-MX257



Release Notes for kernel revision 5

This document contains important information which were available only after printing of the manual.

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Revision History

Notes 1 →	Kernel V1	Date: 08.06.2010
	Initial revision	
Notes 2 →	Kernel V2	Date: 09.07.2010
	<ul style="list-style-type: none"> - driver for CAN controllers of the DIMM-MX257 added - max. speed of USB Function reduced to full-speed - removed flashing screen on startup 	
Notes 3 →	Kernel V3	Date: 28.07.2010
	<ul style="list-style-type: none"> - support for camera variant of DIMM-MX257 available - support for SPI interface available 	
Notes 4 →	Kernel V4	Date: 29.11.2010
	<ul style="list-style-type: none"> - fixed problem in Ethernet driver which resulted in incorrect MAC - fixed problem in Ethernet driver concerning link status - improved touch screen driver performance 	
Notes 5 →	Kernel V5	Date: 17.06.2011
	<ul style="list-style-type: none"> - changes in touch driver to support more touch screens - fixed problem with RTC after warm boot 	

Overview about supported hardware components

The following table gives an overview about the hardware components which are currently supported by the provided Windows CE Kernel.

Component	Supported Yes/No	Remarks
Displays		The used display can be specified by the bootloader
- TFT, Admatec NLC640T57D480CTMK	Yes	colors: 16bpp resolution: 640x480
- TFT, Hitachi TX14D11VM1CB	Yes	colors: 16bpp resolution: 320x240
- TFT, UMSH8272	Yes	colors:16bpp resolution 800x480
- TFT, Hitachi TX26D12VM0APA	Yes	colors:16bpp resolution 800x600
Touch	Yes	
RTC	Yes	
USB Host	Yes	High Speed
USB client driver for USB keyboards	Yes	
USB client driver for USB mouse	Yes	
USB client driver for USB storage (USB memory)	Yes	
USB client driver for USB printers	Yes	
USB Function (Device)		
serial interface to use with ActiveSync	Yes	Only full-speed
4 Serial ports	Yes	3 ports support TxD, RxD and 1 port additionally supports RTS/CTS
I ² C	Yes	
Ethernet	Yes	FEC controller 100/10MBit full- and half-duplex, full-duplex flow control
Storage Devices NAND Flash File System SDCard	Yes Yes	
AUDIO	Yes	Full Duplex
CAN	Yes	driver supports HiCOCAN Architecture
SPI	Yes	1 SPI port
Camera Interface	Yes	Driver supports Omnivision OV2640 and OV7720 Interface only available on camera variant of the DIMM-MX257 module

Remarks on the touch interface

The calibration data is taken from the display table in the bootloader. If the touch calibration is not good enough you are free to correct the calibration data. This can be done with the calibration applet "Stylus" in the control panel of WINCE. After this, make the new calibration data persistent by using the tool "writereg.exe".

Remarks on the two module variants

There are two variants of the DIMM-MX257 module, a standard variant and a camera variant. The standard variant features 4 UARTs and 2 SD Card interfaces. The camera variant only 3 UARTs and 1 SD Card interface, but therefore a digital camera interface.

Contact information

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