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1. Introduction

1.1. Scope

Scope of this document is to give an overview of the USB drivers to be used in Windows CE 6 and Windows Embedded Compact 7 for Telit modems.

1.2. Audience

This document targets software developers who are integrating Telit modems listed in the Applicability Table in their Windows CE 6 or Windows Embedded Compact 7 environment.

1.3. Contact Information, Support

For general contact, technical support, to report documentation errors and to order manuals, contact Telit Technical Support Center (TTSC) at:

TS-EMEA@telit.com
TS-NORTHAMERICA@telit.com
TS-LATINAMERICA@telit.com
TS-APAC@telit.com

Alternatively, use:

<http://www.telit.com/en/products/technical-support-center/contact.php>

For detailed information about where you can buy the Telit modules or for recommendations on accessories and components visit:

<http://www.telit.com>

To register for product news and announcements or for product questions contact Telit Technical Support Center (TTSC).

Our aim is to make this guide as helpful as possible. Keep us informed of your comments and suggestions for improvements.

Telit appreciates feedback from the users of our information.



2. Operating System Setup

2.1. Summary

All Telit modems listed in the Applicability Table present serial port devices (following the CDC-ACM standard, or one of its derivation).

Telit provides a binary driver (dll) to enable the creation of the operating system COM devices that can be used for communicating with the modem (e.g. AT commands sending, data connection).



Telit provides binaries for ARMV4I architecture (Windows CE 6) and ARMV7 (Windows Embedded Compact 7). If the driver is needed for different architectures, Telit can provide the source code under an NDA.

Telit modems listed in the Applicability Table can be divided into two groups. They should use a different .dll according to the operating system version, as explained in the following table:

Group	Modems	Driver Version	Driver Name
1	GE/HE/UE910, UL865, LE910 V2	U5.00.02 (WinCE 6) UA.00.02 (WEC 7)	CDCACM.dll
2	CE/DE/LE910, HE920	U1.00.07 (WinCE 6) U9.00.01 (WEC 7)	CDCDriver.dll

2.2. Integrating the Serial Port Driver

For proper working, the driver dll and its related registry keys should be integrated into Win CE 6/WEC 7 OS image using the Platform Builder.



Please refer to Microsoft Platform Builder documentation for learning how to add the dll and the registry keys file to the OS image.

For the registry key file to be integrated, please refer to the following paragraphs according to the modem group.

2.2.1. Modems listed in group 1 (CDCACM.dll)

Please refer to the table below for registry keys file and ports arrangement.



Modem	Registry keys file	Port arrangement
GE910	CDCACM_GE910.reg	COM6 (AT), COM7
HE/UE910, UL865 (PID: 0x0021)	CDCACM_xE910_UL865.reg	COM6 (AT), COM7, COM8, COM9 (AT)
LE910 V2 (PID: 0x0036)	CDCACM_LE910_V2_PID36.reg	COM6 (AT), COM7, COM8, COM9 (AT)

2.2.2. Modems listed in group 2 (CDCDriver.dll)

Please refer to the table below for registry keys file and ports arrangement.

Modem	Registry keys file	Port arrangement
CE910	CDCDriver_CE910.reg	COM6, COM7 (AT)
DE910, HE920 (PID: 0x1010)	CDCDriver_DE910_HE920.reg	COM6, COM7, COM8 (AT), COM9 (AT)
LE910/920 (PID: 0x1201)	CDCDriver_LE9x0_PID1201.reg	COM6, COM7, COM8 (AT), COM9 (AT)
LE910/920 (PID: 0x1203)	CDCDriver_LE9x0_PID1203.reg	COM6, COM7, COM8 (AT), COM9 (AT)

2.2.3. Modifying the registry keys

If needed, the following registry keys could be changed:

"Index"

to change COM port numbering.

"Prefix"

to change the port name prefix. The available values are "COM" or "TLT"

2.3. Integrating the RNDIS Driver

In addition to the serial devices, LE910/920 with PID 0x1203 present also a network adapter following Microsoft RNDIS protocol. This network adapter can be used for data connection.

For using the RNDIS adapter, the catalog element "USB RNDIS Class Driver" should be added to the OS image with also the following registry key:



3. Modem Setup

3.1. Setting the USB composition

For changing the modem USB composition when needed, please refer to the proper AT Commands User Guide.



5. Document History

Revision	Date	Changes
0	2016-02-05	First issue
1	2016-07-07	Added CDCACM_Flash driver section

