



Tavor ULC/Tavor TD

Tools for TTD/TTC

Linux DiagSaver Guide

v1.00

Document Conventions

	Note: Provides related information or information of special importance.
 Caution	Caution: Indicates potential damage to hardware or software, or loss of data.
	Warning: Indicates a risk of personal injury.
Document Status	
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1 About This Document

1.1 Purpose

Describe the installation steps of PC drivers.

1.2 Abbreviations and Acronyms

Table 1.1: Abbreviations and Acronyms

Acronym	Description
Diag	Serial Diag device
AT	Serial AT Port

1.3 Hardware Requirements

Processor	Pentium IV 2.0Hz (or higher).
Memory	512MB RAM or higher.
Storage	128MB free space on the hard disk.
Ports	Two available serial communication ports (minimum). USB 2.0 Port
Cables & Adapters	UART cable and adapter. USB cable.

1.4 Software Requirements

Table 1.3 Software Requirements

Operating System	32bit/64bit Ubuntu or other Linux
Applications	GCC

2 Capture the Diag log on Linux

2.1 Preparation

1. Unzip Mrvl_DiagSaver_Linux.zip to a usable path in Linux, e.g. /home/.
2. Connect the UE to system, and confirm what the device type is about the Diag of this UE. The Diag will be exported as a ttyACM or a USB device.
3. If the Diag is exported as a USB device, please install the MDiagUSB driver on it firstly. See **2.3 Install the MDiagUSB driver** for detail.

2.2 Compile the DiagSaver.c

For the first using of the DiagSaver on the Linux OS, need to compile the source code by GCC. Use the following command by root user will compile one binary as a DiagSaver application.

```
gcc -o DiagSaver.out DiagSaver.c
```

2.3 Install the MDiagUSB driver

If the Diag device of UE is exported as a USB device, please install the module driver MDiagUSB to it. The following steps will introduce how to compile and install it.

1. Switch the root user by command 'su' in the Terminal.
2. Get into the path \MDiagUSB_Linux\
3. Use the command 'make' to compile it.
4. Use the command 'insmod MDiagUSB.ko' to install the module driver
5. The Diag device will be saw in the /dev/ and named MDiagUSB0

2.4 Capture the Diag log

Use the command ./DiagSaver.out in the DiagSaver path, then input the fact Diag device path.

For Diag on Serial, the device should be /dev/ttyACM0

For Diag on USB, the device should be /dev/MDiagUSB0

After press the enter key, the DiagSaver will auto capture the Diag log and save it to the same path of DiagSaver.out as an .sdl file.

* The .sdl file includes the DB version, use the SDLConverter of CATStudio will analyze and translate it to the readable Diag log.

2.5 Stop the capture

When the DiagSaver is recording the log, press ctrl+c will stop the recording and quit the application.

3 Appendix

3.1 Report issues

Please visit webs: <http://support.asrmicro.com>.

Or contact ASR FAE/AE

Or submit an issue at CQ web: <http://sh2-cq01.asrmicro.com/cqweb/login>.

3.2 Update this document

Please send updated document to lianghuxu@asrmicro.com, xxliu@asrmicro.com with "PC Driver Installation Guide: ..." title for merging, and you will receive merged latest version.

3.3 Revision History

Rev	Description	Date
1.00	Initial version	2014-02-019