2.1 A Quick Tour of the TREK-753 Mobile Data Terminal

Before starting to set up the Mobile Data Terminal, take a moment to become familiar with the locations and functions of the controls, drives, connectors and ports, which are illustrated in the figures below. When the Mobile Data Terminal is placed inside truck glove cabinet or under the passenger's seat next to the driver, its front appears as shown in Figure 2.1.

Figure 2.1 Front view of TREK-753

Figure 2.2 Rear view of TREK-753

Figure 2.3 Side view of TREK-753

Figure 2.4 Bottom view of TREK-753

2.2 Installation Procedures

When you installing TREK-753, the first step will be connect the car power and ignition correctly. TREK-753 power cable is designed to connect car battery directly. TREK-753 can be switched ON/OFF by the car ignition signal or its power button both.

> **Note!** TREK-753 power input support 12V/24V & 48V DC input. The default setting is for 12V or 48V (option board) only. If customer needs 24V DC input, please contact regional sales or distributors to customized in advance.

> **Note!** The Fuse for 12V/24V (10A) system and for 48V (5A) in power cable are different. Please check the fuse in your power cable before system power on.

2.2.1 Connecting the Power Cord

Connect the three pin waterproof power cord to the DC inlet of TREK-753. On the open-wire end, one pin is reserved for positive voltage and is marked "+" which needs to be connected to the car power "+" side; one pin is reserved for ground and is marked "-"; which needs to be connected to the car power "-" side. And, one pin is reserved for the ignition signal with an "ignition" mark. There's independent "Shield" pin in power cable, please fixed its O-ring which besides of power connecter of TREK-753.

> **Note!** Ignition on/off setting: The TREK-753 supports an ignition on/off function so that you can power on/off the TREK-753 via the ignition signal/voltage and connect the TREK-753 vehicle ignition switch.

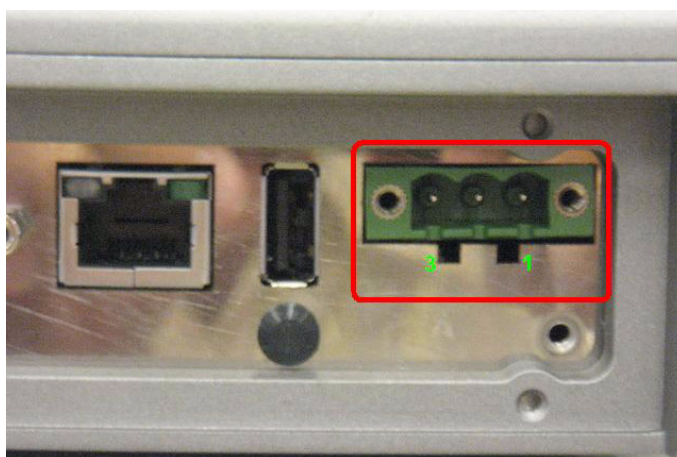Connector : DECA Switchlab ME050-50803

Mating connector: MC101-50803-3Y

Figure 2.5 Power connector photo

Table 2.1: Pin Definition of Power Cord		
Pin	**Definition**	**Color**
1	+	Red
2	Shield	Black
3	-	Black
4	Ignition	Orange

2.2.2 Power Connector

TREK-753 can be powered on/off by power button or Acc ignition directly. Ignition on/off will have 5sec (default) delay when power on/off. It can avoid the floating car power supply impact or damage system operation. For more detail of power management, please see Power mangement in Chapter 5.

Figure 2.6 Power connector outlook

Table 2.2: Power Connector			
Pin	**Signal**	**Pin**	**Signal**
1	Ground	2	Power input (6~36VDC;18~58VDC)
3	Acc Ignition Input		

2.3 Running the BIOS Setup Program

In most cases, the computer will have been properly set up and configured by the dealer or SI prior to delivery. However, it may still be necessary to adjust some of the computer's BIOS (Basic Input-Output System) setup programs to change the system configuration data, like the current date and time, or the specific type of hard drive currently installed.

The setup program is stored in read-only memory (ROM). It can be accessed either when turning on or resetting the computer, by pressing the "Del" key on the keyboard immediately after powering up the computer.

The settings that are specified with the setup program are recorded in a special area of the memory called CMOS RAM. This memory is backed up by a battery so that it will not be erased when turning off or resetting the system. Whenever the power is turned on, the system reads the settings stored in CMOS RAM and compares them to the equipment check conducted during the power on self-test (POST). If an error occurs, an error message is displayed on screen, and the user is prompted to run the setup program.

2.4 Installing the Drivers for Win XP

After installing system software, the computer is ready to set up the Intel® chipset, VGA, audio, LAN, and touch screen functions. All the pre-requisite drivers are stored on a CD-ROM disc entitled "Drivers and Utilities" (Check the correct wording on the CD, which can be found in the accessory box.)

The utility directory includes multimedia programs. Some drivers and utilities in the CD-ROM disc have their own text files which help users install the drivers and understand their functions.

These files are a very useful supplement to the information in this manual. For more updated driver please refers to Advantech website, www.advantech.com/support

The drivers for TREK-753 are listed as below, please just execute the drivers for installation.

Device	Version
Intel SCH INF Update	8.8.0.1011
Intel US15 GMA500 Graphic Driver	6.14.11.1018
PenMount Universal Driver	2.1.1.0
Realtek RTL8111DL 10/100/1000 PCI-E NIC	5.728.604.2009
Realtek ALC892 High Definition Audio	5.10.0.5804
FTDI FT4232 BUS USB Driver	2.6.0.0
ublox LEA-5S Driver	1.2.0.5
Sierra Wireless MC5728V	5.1.2535.0
Sierra Wireless MC8790V	6.20.0.7
Ralink RT3091 Wireless LAN Card (AW-NE768)	1.4.2.1
BT-203B Utility BlueSoleil (Optional)	2.1.3.0

> **Note!** *The drivers and utilities used for the TREK-753 are subject to change without notice. If you are in doubt, check Advantech's website or contact our application engineers for the latest information regarding drivers and utilities.*