ELAN DIGITAL SYSTEMS LTD.

U132 USB Cardbus Card Adapter
User's Guide
ES385
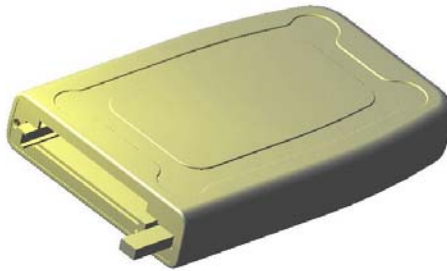
All Trademarks are duly acknowledged.

REVISION HISTORY

ISSUE	PAGES	DATE	NOTES
1	12	14/03/2006	FIRST ISSUE

CONTENTS

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an Elan authorized dealer or service representative for help.

Elan is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Listed Products

The models covered by this installation guide are intended only for installation in Listed computers for use in business or home.

1 OVERVIEW

The U132 USB Cardbus Card Adapters are designed to provide a method of using a range of Cardbus cards via the USB port on a standard computer.

The U132 specifically supports Wireless Modem 3G cards. These cards are offered by many mobile phone operators world-wide.

Please note that the unique hardware design of the U132 has been developed especially for this type of wireless modem, so other card types are not supported. The U132 does not support memory cards.

The adapter has the following features:

- 32-bit Cardbus cards supported.
- 3.3V cards at 400mA typical, with over-current fault protection.
- USB 2.0 Full Speed interface.
- Supports Type I and II card sizes. Slot has ejector lever.
- Uses Elan's unique low power high performance silicon to convert the USB protocol to Cardbus card read/write access.
- Software driver required for each Cardbus card supported.
- DC jack connector for optional external power supply for use with power hungry cards (not normally required).

2   USB PC CARD ADAPTER PACK CONTENTS

The USB Cardbus Card Reader is shipped with the following items:

- 1 * U132 USB Cardbus Card Adapter.

- 1 * USB 2.0 cable. 1m long, fitted with type A and type B moulded connectors.

- 1 * USB PC Card Adapter software driver installation CD.

3 INSTALLATION

Connect the supplied USB cable to the U132 adapter as shown below:

Connect the other end of the USB cable to a spare USB port on your computer.

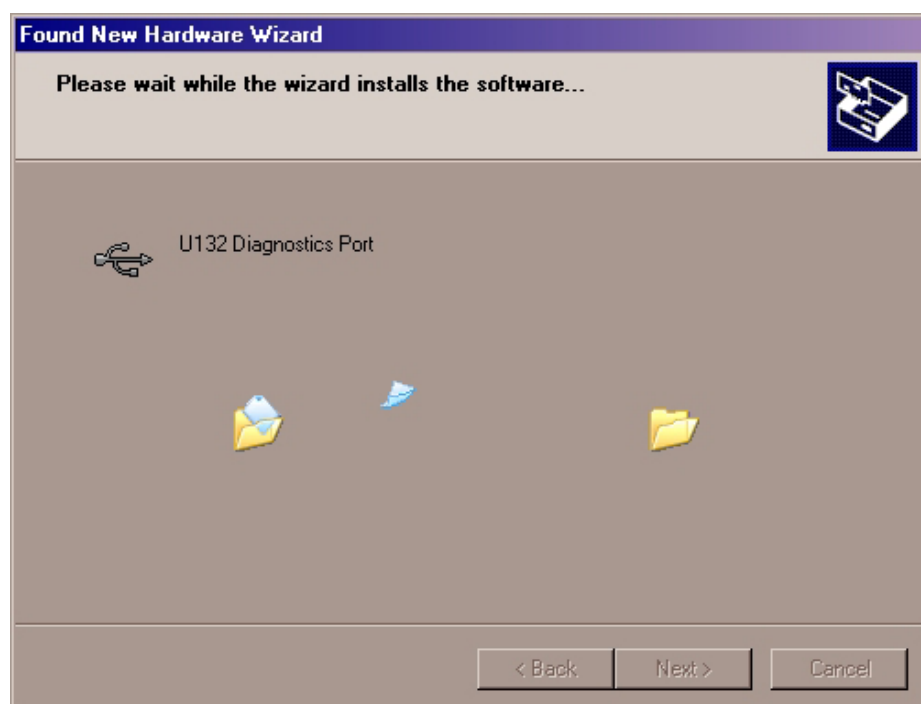Windows will detect the U132 and launch the 'Found New Hardware Wizard'.

If your PC asks you whether it should connect to the Internet to search for a driver you can say 'No, not this time'.

Insert the USB Cardbus Card Adapter Installation CD-ROM into your CD-ROM drive.

Now select 'Install the software automatically'.
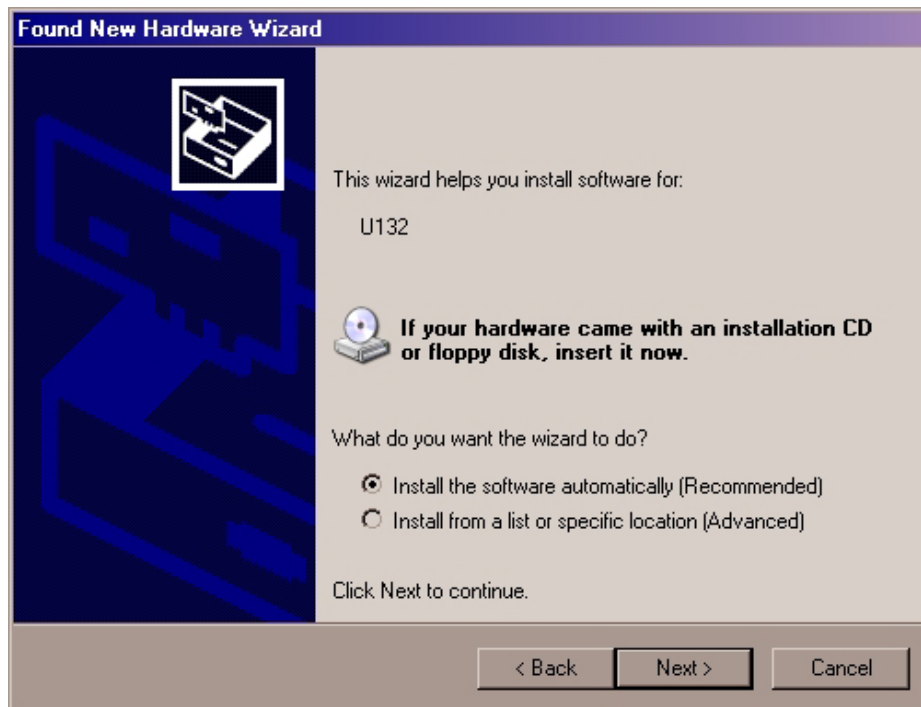
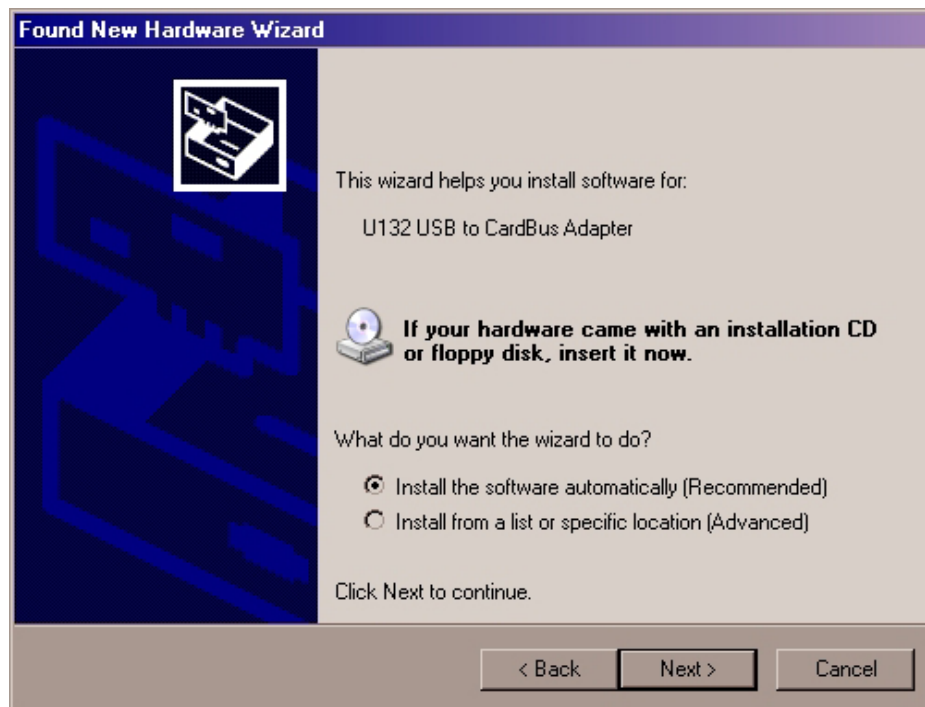Click 'Next' and wait for the software to install.
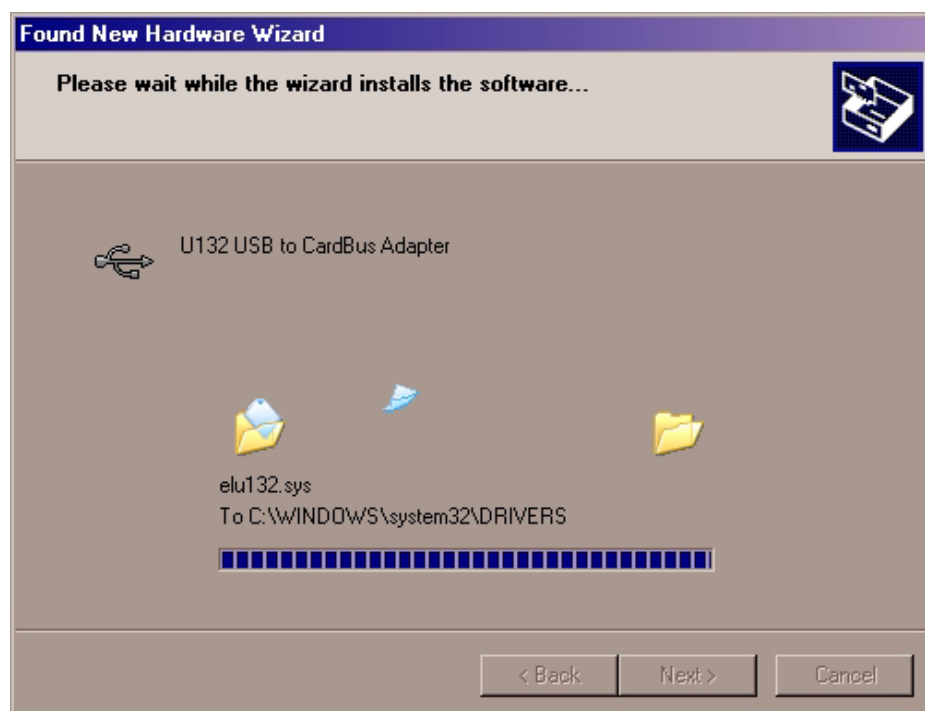
When it has finished click 'Finish'.

Because the U132 is a USB Composite Device, the "Found New Hardware" process will need to be performed twice. Again, when asked, do not allow connection to the Internet.
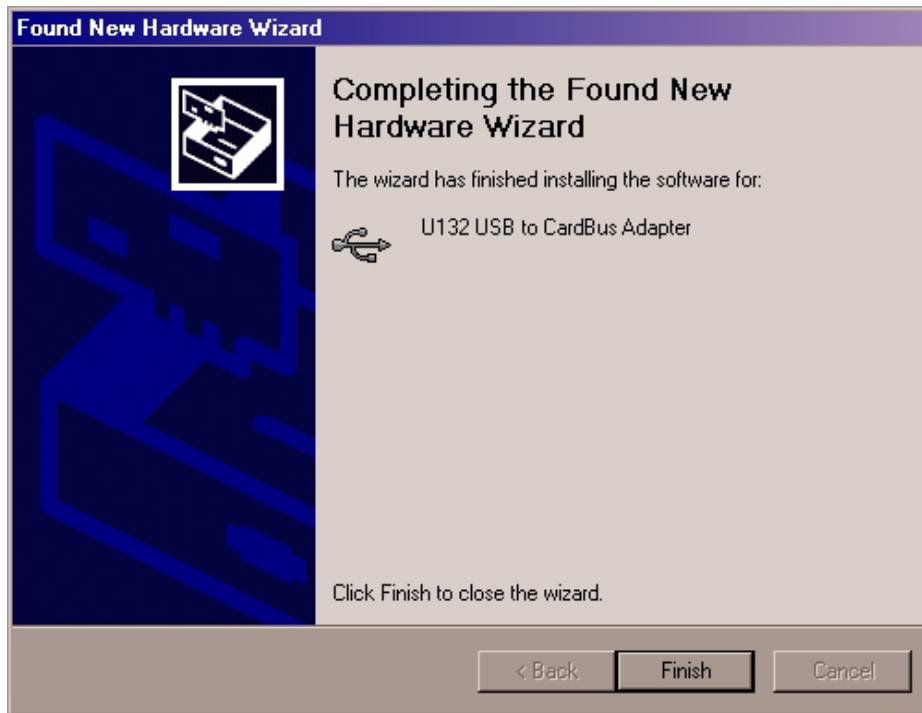
Now select 'Install the software automatically'.

Click 'Next' and wait for the software to install.

When it has finished click 'Finish'.

The U132 USB Cardbus Adapter installation is now complete.

The adapter can now be used with the appropriate Cardbus cards. Refer to the documentation for these cards for the appropriate installation instructions.

4 HARDWARE SPECIFICATION

4.1 POWER REQUIREMENTS

All parameters @ 20°C unless stated

Supply Voltage via USB: 5.0V $=$ from host computer

Supply Voltage via optional: 6.0V $=$ from mains power adapter
external power input

Supply Current (active):   60mA
Supply Current (suspend):   1.2mA

The maximum current that can be drawn from the USB bus 500mA. Therefore the Cardbus card cannot consume more than 440mA.

If more current is required, the optional external power connection must be used. However, the total current drawn through the external power input must not exceed 1A. Hence, the PCMCIA card cannot consume more than 940mA.

Note: A mains adapter is not supplied with the U132 adapter.

4.2 MECHANICAL

Mass: 130g typ.
Case Material Data: ABS (PolyLac PA-765A) (UL94V rated)
Size (typical in mm):   140mm x 85mm x 27mm

4.3 ENVIRONMENTAL

Humidity: <80% non condensing
General Operating Temperature: -10°C to +45°C Ambient
Storage Temperature: -40°C to +80°C Ambient
Operating Location: Indoor or under-cover use only

4.4 SAFETY DATA

Important Safety Precautions
Always observe these when using the USB PC CARD Reader

The USB Cardbus Card Adapter contains no user serviceable parts inside. Do not open the plastic housing.

Do not use the equipment if the housing is damaged or is poorly fitting. In such a case do not connect anything to the USB Adapter to avoid a hazard. The USB Cardbus Card Adapter will have to be repaired or replaced in such a situation.

Do not exceed the maximum ratings listed in the specification.

Never use the equipment if it becomes damp for any reason. This includes situations were condensation has formed on the unit due to sudden temperature or humidity changes.

Never use a USB cable that is damaged or has insufficient or incomplete insulation. Only use USB 2.0 cables.