



English

TI-GRAPH LINK™

FOR WINDOWS™, DOS, AND MACINTOSH®

FOR TI-82 and TI-85 GRAPHING CALCULATORS

CONDENSED GUIDEBOOK

Note: The contents of this guidebook apply to both the TI-82 and TI-85 graphing calculators. Because of the similarity of the calculators, the abbreviation “TI-82/85” is used throughout this guidebook to mean “TI-82 and/or TI-85.” Differences that exist between the two models are explicitly described where applicable.

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Getting Started with TI-GRAPH LINK for Windows

Use this document for a quick review of how to install and operate TI-GRAPH LINK for Windows for the TI-82 and TI-85 (TI-82/85) graphing calculators.

System Requirements

The PC used to run the TI-GRAPH LINK software must meet the following hardware and software requirements.

1. Windows 3.1 or later version, MS-DOS 3.1 or later version (5.0 or later recommended).
2. IBM® AT or PS/2 or 100% compatibles with available hard disk storage of 1 MB, a 3-1/2 inch disk drive, a Microsoft mouse or compatible pointing device, and a serial port.
3. EGA, VGA, XGA, or SVGA video adapter (VGA or better recommended).
4. A serial communication port configured as COM1, COM2, COM3, or COM4.

Connecting the TI-GRAPH LINK Cable

To connect the TI-GRAPH LINK cable between your PC and a TI-82/85:

1. Connect one end of the cable to the PC serial port. If necessary, use the 9-pin to 25-pin adapter.

Note: The six-inch 8-pin to 25-pin adapter cable with the circular plug is for the Macintosh and is not used with PCs.

2. Connect the other end of the TI-GRAPH LINK cable to the port at the bottom of the TI-82/85 calculator.

Important: Push in all connectors firmly.

TI-GGRAPH LINK for Windows (Continued)

Installing the TI-GGRAPH LINK Software

Make a copy of the original disk and use the copy to load the software.

1. Start Microsoft Windows.
2. Insert the TI-GGRAPH LINK for Windows diskette in drive A.
3. From Program Manager, open the **File** menu and select **Run**.
4. Type a:\setup82 or a:\setup85. Press **Enter** and follow the instructions that appear on your display.
5. After installing the TI-GGRAPH LINK software, open the Windows Control Panel and select Fonts. Open the TrueType window and ensure that TrueType fonts are enabled.

Starting TI-GGRAPH LINK and Testing the Connection

On the PC, open the TI-GGRAPH LINK group and double-click on the TI-82/85 program icon to start the application.

To test the cable connection between the PC and the calculator:

1. Turn on the calculator. Display the **MODE** screen on the TI-82 by pressing [MODE], or on the TI-85 by pressing [2nd] [MODE].
2. On the PC, open the Link menu and select the serial communications port (COM1, COM2, COM3, COM4) to which the cable from the TI-82/85 is connected.
3. Open the Link menu and select **Get LCD from TI-82/85 to Clipboard**. The **Receive** window is displayed.
4. Click on Receive. The contents of the TI-82/85 display appear in the **LCD Save** window.
5. Click on OK to close the **LCD Save** window.

In Case of Difficulty

If you get an error when you click on Receive, there is a communication problem between the TI-82/85 and the PC.

- Make sure that all cables are firmly connected.
- Make sure that the plug connected to the TI-82/85 is pushed in all the way.
- Make sure you have selected the correct serial port (COM1, COM2, COM3, or COM4). Open the **Link** menu to check your current setting.

Menu Bar Options

Menu Item	Action
File	Accesses the standard file operations and specialized TI-GRAPH LINK utility functions.
Edit	Accesses the standard PC edit functions.
Insert	Accesses the TI-82/85 command names.
Link	Allows you to send and receive data between the PC and a TI-82/85, capture the TI-82/85 display, and set the COM Port for communicating with a TI-82/85.
Window	Allows you to display the Pick List or TI-82/85 display keyboard. Accesses open Edit Windows.
Help	Accesses on-line help information.

TI-GGRAPH LINK for Windows (Continued)

Sending Files	To send files from the PC to a TI-82/85: 1. On the TI-82/85, press [2nd] [LINK], and then select RECEIVE for the TI-82 or RECV for the TI-85. The TI-82/85 displays the message "Waiting. . ." 2. On the PC, open the Link menu, and then the Send window. Select the files you want to send to the TI-82/85, then click on OK to transmit the files.
Receiving Files	To receive files on the PC from a TI-82/85: 1. On the PC, open the Link menu, select Receive, and choose Group or Individual Files. 2. On the TI-82/85, press [2nd] [LINK], select SEND and select the files you want to transfer. Then press TRANSMIT on the TI-82 or XMIT on the TI-85. 3. On the PC, press Save to save the transferred files.
Opening and Printing Files	To open and print TI-82/85 files on the PC: 1. On the PC, open the File menu and select Open. Highlight the file you want to open and click on OK. The file should now be open in the Edit window. 2. To print the open file, open the File menu and select Print. Then click on OK to print the file. 3. To copy the contents of the file to the Windows Clipboard, highlight the items you want to copy, open the Edit menu, and select Copy. 4. You can now paste the contents of the Windows Clipboard to an open Edit window, or to another Windows application, using the Edit, Paste menu items.
Exiting the Program	You can exit the TI-GGRAPH LINK application by opening the File menu and selecting Exit.

Getting Started with TI-GRAPH LINK for DOS

Use this document for a quick review of how to install and operate TI-GRAPH LINK for DOS for the TI-82 and TI-85 (TI-82/85) graphing calculators.

System Requirements

The PC used to run the TI-GRAPH LINK software must meet the following hardware and software requirements.

1. IBM® AT or PS/2 or 100% compatibles with 400K bytes of available RAM.
2. MS-DOS 2.0 or later version.
3. EGA, MCGA, or VGA video adapter.
4. A serial communication port configured as COM1, COM2, COM3, or COM4.

Connecting the TI-GRAPH LINK Cable

To connect the TI-GRAPH LINK cable between the PC and TI-82/85:

1. Connect one end of the cable to the PC serial port. If necessary, use the 9-pin to 25-pin adapter.

Note: The six-inch 8-pin to 25-pin adapter cable with the circular plug is for the Macintosh and is not used with PCs.

2. Connect the other end of the TI-GRAPH LINK cable to the port at the bottom of the TI-82/85 calculator.

Important: Push in all connectors firmly.

TI-GGRAPH LINK for DOS (Continued)

Installing the TI-GGRAPH LINK Software

Make a copy of the original disk and use the copy to load the software.

1. If your PC has a hard disk, create a directory on it named Link82 or Link85 for the TI-GGRAPH LINK program. For example, enter the following command to create a LINK82 directory on drive C:

```
MD C:\LINK82
```

If you do not have a hard disk, format a diskette to use as a working TI-GGRAPH LINK diskette.

2. Copy the LINK82.EXE or LINK85.EXE file from the TI-GGRAPH LINK disk into your LINK82/85 directory.

Starting TI-GGRAPH LINK

To start TI-GGRAPH LINK for DOS:

1. On the PC, change to the LINK82/85 directory on the hard drive, or insert your working diskette. For example, if you created a directory on drive C, enter the following command to access the LINK82 directory:

```
CD\LINK82
```

2. Start the program by entering the command:

```
LINK82 or LINK85
```

3. The program displays the TI-GGRAPH LINK main menu.

Configuring the Program

To configure TI-GGRAPH LINK for DOS on your PC:

1. On the PC, press F5 to display the **Utilities** menu and then select **System Setup**.
2. Use the cursor keys to highlight the serial port you are using (COM1, COM2, COM3, or COM4). Press **Enter** to select the highlighted port.
3. If you want to specify a separate directory for TI-82/85 files, highlight **Modify Data Directory Pathname** and press **Enter**. Input the complete pathname of the directory you want to use.

Note: The directory must already exist.

4. To exit the setup window, press the **Esc** Key.

**Testing the
LINK
connection**

1. Turn on the calculator. Display the **MODE** screen on the TI-82 by pressing [MODE], or on the TI-85 by pressing [2nd] [MODE].
2. On the PC, press F3 to open the **CopyDisp** menu and select **to Tiff File**. Then press F1 to copy the display. Type in a file name and press **Enter** to save the display as a Tiff file.

**In Case of
Difficulty**

If you get an error when you try to copy the display, there is a communication problem between the TI-82/85 and the PC:

- Make sure that all cables are firmly connected.
- Make sure that the plug connected to the TI-82/85 is pushed in all the way.
- Make sure you have selected the correct serial port (COM1, COM2, COM3, or COM4). Open the **Utilities, System Setup** menu to check your current setting.

**Menu Bar
Options**

Menu Item		Action
Send	F1	Allows you to select TI-82/85 files to send to the TI-82/85 via TI-GRAPH LINK.
Recv (Receive)	F2	Allows you to receive and print files from the TI-82/85 via TI-GRAPH LINK.
CopyDisp (Copy Display)	F3	Allows you to print or save TI-82/85 screens as TIFF (Tagged Image File Format) or EPS (Encapsulated PostScript®) Files.
Print	F4	Allows you to print TI-82/85 files saved on the PC.
Util (Utilities)	F5	Provides several utility functions and system setup.
Exit	F10	Allows you to exit the TI-GRAPH LINK program.

Sending Files

To send files from the PC to a TI-82/85:

1. On the TI-82/85, press [2nd] [LINK], and then select RECEIVE for the TI-82 or RECV for the TI-85.

The TI-82/85 displays the message "**Waiting. . .**"

2. On the PC, press F1 to open the **Send** menu. Chose the type of file you want to send. Select the files you want to send by highlighting the files and pressing **Enter**. Then press F1 to transmit the files.

Receiving Files

To receive files on the PC from a TI-82/85:

1. On the PC, press F2 to open the **Receive** menu. Choose **to Group File, to Printer, or to Individual Files** by highlighting the desired option and pressing **Enter**.
2. On the TI-82/85, press [2nd] [LINK], select SEND and select the files you want to transfer. Then press TRANSMIT on the TI-82 or XMIT on the TI-85 to receive the files.

Exiting the Program

You can exit the TI-GRAPH LINK application from the main menu by Pressing F10 to open the **Exit** menu and selecting **Yes**.

Getting Started with TI-GRAPH LINK for Macintosh

Use this document for a quick review of how to install and operate TI-GRAPH LINK on a Macintosh computer. For more information, see the two Teach Text™ TEXT information files, Link82.user and Link85.user.

System Requirements

The Macintosh used to run the TI-GRAPH LINK software must meet the following hardware and software requirements.

- Macintosh Plus or better.
- Apple System file 6.0.5 (or newer version) with or without MultiFinder, or System 7.
- 512K bytes of available RAM.

Connecting the TI-GRAPH LINK Cable

Warning: The six-inch 8-pin to 25-pin adapter cable for the Macintosh is configured for this product. DO NOT use other adapter cables that may look the same.

1. Connect the 8-pin mini-circular plug of the six-inch adapter cable to the Macintosh modem port on the rear of the computer.
2. Connect the longer TI-GRAPH LINK cable to the 25-pin end of the six-inch adapter cable.
3. Insert the other end of the TI-GRAPH LINK cable into the port at the bottom of the TI-82/85.

Important: Push in all connectors firmly.

Installing the TI-GRAPH LINK Software

To install the TI-GRAPH LINK for Macintosh software:

1. Create and open a folder named LINK82 or LINK85.
2. Drag the contents of the corresponding folder from the TI-GRAPH LINK diskette to the new folder.

TI-GGRAPH LINK for Macintosh (Continued)

Installing the TI-82/85 Font

Close all active applications; only Finder should be active. The installation procedure depends on the operating system software installed in your Macintosh.

System Software 6.0 x:

1. Insert the TI-GGRAPH LINK diskette in the Macintosh and double-click on the TI-82/82 font suitcase. Select **TI-82 8** and **TI-82 12**, or **TI-85 8** and **TI-85 12** in the Font/DA Mover dialog box; then click on **Open**.
2. In the **New** dialog box, select the drive containing the System Folder, open the System Folder, and select the System File.
3. Select **Copy** to copy the fonts to the System File; then quit Font DA/Mover. If you are using MultiFinder, restart the Macintosh to ensure that the fonts are available to all applications.

System 7 Software:

1. Open the disk containing the System Folder.
2. Drag the TI-82/85 font suitcase to the System Folder icon.

Starting TI-GGRAPH LINK and Testing the Connection

On the Macintosh, open the LINK82/85 folder and double-click on the program icon to start the application.

To test the cable connection between the Macintosh and the calculator:

1. Turn on the calculator. Display the MODE screen on the TI-82 by pressing [MODE] or on the TI-85 by pressing [2nd] [MODE].
2. On the Macintosh, open the **Receive** menu and select **Get LCD from TI-82/85**.
3. The contents of the calculator display are displayed in a separate window on the Macintosh. From this window, you can print the display, save it as a **PICT** file, or copy it into the Macintosh Clipboard.

In Case of Difficulty

If nothing happens when you select **Get LCD from TI-82/85**, there is a communication problem between the TI-82/85 and the Macintosh. Make sure the Macintosh adapter cable is connected to the modem port on the Macintosh and that all cable connectors are firmly inserted.

Menu Bar Options

Menu Item	Action
File	Accesses the standard file operations and specialized TI-GRAPH LINK utility functions.
Edit	Accesses the standard Macintosh edit functions.
Window	Accesses all open Edit and Information windows.
Find	Accesses Find, and Find and Replace functions.
Menu	Accesses the TI-82/85 commands and special characters.
Send	Allows you to select TI-82/85 files to send to the TI-82/85 via the TI-GRAPH LINK.
Receive	Allows you to receive and print files from the TI-82/85 via the TI-GRAPH LINK.

**Sending Files
to the TI-82/85**

To send files from the Macintosh to a TI-82/85:

1. On the TI-82/85, press [2nd] [LINK], and then select RECEIVE for the TI-82 or RECV for the TI-85.
The TI-82/85 displays the message "**Waiting. . .**"
2. On the Macintosh, open the **Send** menu and chose the type of file you want to send. Then select the files you want to send by highlighting and pressing **Add** for each file.
3. When you have finished selecting files, click on **Done**. Then click on **Send** to transmit the files to the TI-82/85.

**Receiving Files
from the
TI-82/85**

To receive files on the Macintosh from a TI-82/85:

1. On the Macintosh, open the **Receive** menu, and choose **to Group Files, to Individual Files, or to Print**.
2. On the TI-82/85, press [2nd] [LINK], select SEND and select the files you want to transfer. Then press TRANSMIT on the TI-82 or XMIT on the TI-85.

**Opening and
Printing Files**

To open and print TI-82/85 files on the Macintosh:

1. On the Macintosh, open the **File** menu and select **Open**. Choose the file you want to open and click on **Open**. The file should now be open in the Edit window.
2. To print the open file, open the **File** menu and select **Print**.
3. To copy the contents of the file to the Macintosh Clipboard, highlight the items you want to copy, open the Edit menu, and select **Copy**.
4. You can now paste the contents of the Macintosh Clipboard to an open Edit window, or to another Macintosh application, using the **Edit, Paste** menu items.

**Exiting the
Program**

You can exit the TI-GGRAPH LINK application by opening the **File** menu and selecting **Quit**.