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ACP60US / 410-0493-001A



**ExpressCard™
Notebook
Docking Station
with Digital Video
and Audio**



USER GUIDE

PMS Black
30%

PMS Black
100%

TARGUS EXPRESSCARD™ NOTEBOOK DOCKING STATION WITH DIGITAL VIDEO AND AUDIO

Introduction

Congratulations on your purchase of the Targus ExpressCard Notebook Docking Station with Digital Video and Audio. This portable expansion module allows you to connect through an ExpressCard slot up to 4 USB devices, monitor or LCD, high-speed Gigabit Ethernet/LAN, 5.1 channel PC audio with optical S/PDIF, and a serial port for legacy device.

The docking station also offers Targus Always On technology, Targus USB Power Ports providing twice as much power as the standard USB spec and widely spaced to accommodate for larger adapters. Targus Always On provides power to the USB ports even when the notebook is shut-down, disconnected from the docking station or in hibernate/stand-by mode which allows USB devices to keep charging.

Ergonomic Design

Ergonomic design increases airflow under notebook for cooler operation. The raised platform provides a more comfortable position for typing.

Features

- (4) High Speed USB 2.0 ports
- (1) Serial (RS232) port
- (1) 24 pin DVI-D connector
- (1) VGA (HD D-sub) HD-15 connector
- (1) ExpressCard upstream cable connection
- (1) RJ-45 Gigabit Ethernet 10/1000
- (3) 5.1 Surround sound audio jacks
- (1) Microphone In
- (1) S/PDIF digital audio out (Toslink Optical Connector)
- (2) Security Lock Slots

Package Contents

In addition to this user guide, the package contains:

- Targus ExpressCard Docking Station with Digital Video and Audio
- ExpressCard Cable and Card (with Spacer card)
- AC Adapter
- Driver CD

System Requirements

Hardware

- PC with an Intel® Pentium® processor or equivalent
- CD-ROM drive
- ExpressCard 34mm or 54mm slot
- AC power source (AC adapter required)

Operating System

- Windows® XP - Service Pack 2 or greater



NOTE: TO DOWNLOAD THE LATEST SERVICE PACKS, PLEASE VISIT YOUR COMPUTER MANUFACTURER'S WEBSITE OR MICROSOFT'S DOWNLOAD CENTER:

<http://support.microsoft.com/default.aspx?scid=fh%3BENUS%3Bsp>

Preparing the BIOS for the ExpressCard

Before installing the ExpressCard Docking station, it is very important that you make sure that your system BIOS has the latest BIOS update available. A number of system vendors have released updates that fix many issues related to the ExpressCard Slot.

Please visit the Targus website for a list of known notebooks that requires BIOS update in order to operate correctly with the Express-Card docking system. <http://www.targus.com>

About the ExpressCard Connector Card

The ExpressCard dock comes with a cable and 34mm card to connect to an ExpressCard slot in your notebook. The cable is removable from the card. The card can be left in your system when not in use.

The 34mm card has a small switch located in the circular area in the drawing below.



When connecting the cable to the ExpressCard, Please make sure the cable tip is properly and completely inserted into the cable port on the ExpressCard. Make sure the tip is connected in the correct direction and do not force the connection or it might break the device.

On-Pre-boot support
Off-Post-boot support (Default)

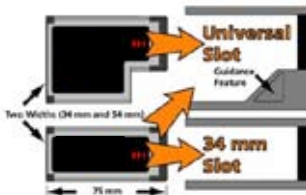


This switch is used to determine how the dock is recognized in the system at boot up stage. Certain notebooks will detect the dock and not work properly during a pre-boot mode (ie. trying to boot up on the external VGA device, not the internal VGA of the Notebook). This switch needs to be set only once, and most model notebooks will not have an issue.

This issue was observed in notebooks that use Phoenix BIOS (e.g. Fujitsu, some models of Sony and Toshiba). If you experience an issue with this, please switch it to the “On” for Pre-boot mode. The default position is “Off”.

Using the Spacer Connector

A spacer is available for the ExpressCard to ensure the proper fitting of the 34mm ExpressCard into a 54mm slot. This spacer has no functionality other than to prevent any movement of the card once it is inserted into the 54mm slot. The spacer is not needed if you have a 34mm slot on your notebook. (See the diagram below as to the two different slots that are currently shipping in today's notebooks)



The spacer simply snaps on to the existing ExpressCard and is inserted with the card connector into a 54mm ExpressCard slot.



Carefully align the spacer with the ExpressCard and join the two pieces together by locking the clip in place.

Please make sure that the clip is firmly secured and no gap is in between the two items. As shown in the diagrams above.

Installing the Docking Station Driver

Installing the docking station driver enables your operating system to recognize the docking station and its ports once it's connected.

1. Turn on your computer.
2. Insert the driver software CD into your computer's CD-ROM drive.

If setup does not begin automatically, click **Start, Run**, and enter **D:\Setup.exe** (where D: is the path of your CD-ROM drive) and then click **OK**.

3. The *Installation Wizard* window of the docking station will pop up. Follow any on-screen instructions to complete the installation. Please connect the ExpressCard into the slot when prompted.

Connecting the Docking Station to Your Computer

Step 1. Connect the supplied AC power adapter to the AC power jack on the docking station.

Step 2. Connect one end of the ExpressCard cable to the docking station and the other end into the ExpressCard Card.



Step 3. Connect the ExpressCard Card into an available Express Card slot in your Notebook.



WARNING: THE DOCKING STATION WILL NOT FUNCTION PROPERLY WITHOUT THE AC ADAPTER PLUGGED INTO AN AC OUTLET. DO NOT CONNECT ANY DEVICES TO THE DOCKING STATION UNTIL THE SOFTWARE HAS BEEN INSTALLED AND AC ADAPTER PLUGGED.

4. Click **Finish** and restart your computer when prompted. In order to install the driver files properly, you must restart your system.

Installing the Default Device Drivers

Once you connect the docking station to your computer, the default drivers begin installing for each of the ports automatically.



NOTE: PLEASE ENSURE YOU HAVE THE LATEST SERVICE PACKS INSTALLED

Some hardware devices may prompt you to install the drivers.

To install the drivers:

1. Select *Install the software automatically* (Recommended) and click **Next**.

The *Found New Hardware Wizard* program begins installing the hardware drivers.

The *Completing the Found New Hardware Wizard* screen appears.

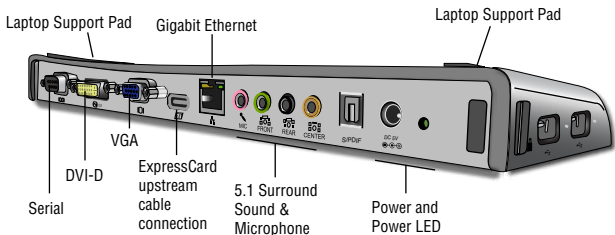
2. Click **Finish** and repeat as needed for each device.
3. Restart your computer.

LED Status Indicator Lights

Once all device drivers are installed, the USB LED status indicator lights on on each side of the docking station glow when you connect devices to the docking station.

- Green Tx light illuminates when connected to a network and the yellow Rx light flashes when data is transmitting to or from the network.
- The Power LED will glow when the AC power cord is plugged into the Docking station

Docking Station ports



“Easy Access”

High power USB
ports with
LED light indicator



Lock slot for use with
Targus locks - Models
nos. PA410U or
PA450U (not included)

Connecting New Devices

To avoid possible damage when connecting a new device, do not force the cable connector into the port on the docking station. If the cable connector does not attach smoothly, turn the connector over and try attaching it again.

Connecting a Serial Mouse / Keyboard

To connect a serial mouse or keyboard, attach the cable connector to the serial port on the docking station.

Connecting and Configuring a Serial Modem

To connect a serial modem:

1. Attach the cable connector to the serial port on the docking station.
2. Install the modem software driver according to the instructions that come with the device.
3. When prompted to select the port, choose the Serial USB (COMx), where x is the COM port number assigned by your operating system.

Connecting a PDA

1. Attach the cable connector to the serial port on the docking station.
2. Verify that the COM port setting, in either your HotSync® or ActiveSync® software, matches the setting on the docking station. To verify the COM port setting on the docking station, refer to “Verifying Devices are Installed”. To verify the COM port setting on your PDA, refer to the documentation that came with it.

Connecting to a Local Area Network

To connect an Ethernet cable with an RJ-45 connector, attach the cable connector to the Ethernet/network port on the docking station. Additional procedures to connect to an actual network depend on the type of network you are using. Contact your network administrator for detailed instructions.



NOTE: THE DOCKING STATION SUPPORTS HOT SWAPPING OF THE NETWORK CABLE.

Connecting a USB Device

To connect a USB device, plug it into a USB port on the docking station and follow the additional instructions provided with the device. All four USB ports meet USB High-speed requirements by providing 480Mbps and a minimum of 500mA of power. Note that 2 out of the 4 USB ports are designed to provide 1000mA., twice as much as standard USB specifications. See “Targus Always On” on for more details, and “Using USB Devices That Require More Power”.

Connecting and Configuring an Audio Device

This docking station comes with a 5.1 Audio Support. The back of the Device has 5 ports dedicated to Audio.



IF you are having problems with your speakers after attaching the Docking Station, please see the troubleshooting section for more information.



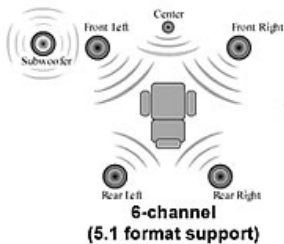
Microphone In – Pink

Front Channel or Line Out – Green

Rear Channel – Black

Center Channel / subwoofer– Orange

S/PDIF – Digital Audio Interface (PCM, Dolby Digital 5.1)



1. To use stereo headphones or speakers, plug them into the green 3.5mm port.

If you have a 5.1 speaker setup, connect the Front Channel Speaker into the green 3.5mm port. Connect the Rear speaker into the Black 3.5mm port. Connect the Center Channel into the Orange 3.5mm port.

2. To connect a microphone, plug it into the Pink 3.5mm port.
3. To enable your headphones or speakers, you must first choose C-Media USB Sound Device in the Properties Settings
4. For Windows® XP, go to the **Control Panel** and choose Sound and Audio. Select the **Audio tab**. Under **Sound Playback**, change Preferred Device to **C-Media USB Sound Device** from the drop down list.

Click **Apply**, then click **OK**.

5. Make sure the volume is not set to MUTE.



NOTE: AUDIO DEVICES WILL NOT WORK SIMULTANEOUSLY ON THE DOCKING STATION AND THE HOST COMPUTER.



CAUTION: ALL AUDIO OR MULTIMEDIA APPLICATIONS MUST BE TERMINATED BEFORE SWITCHING BETWEEN THE PORT STATION AUDIO OUTPUT AND THE HOST COMPUTER AUDIO OUTPUT.

Installing and Configuring a S/PDIF (Sony/ Philips Digital Interface) Device

1. In order to enable S/PDIF, you have to turn it on. This can be done by opening the USB 3D Sound Configuration applet located in your system tray. (click on the USB icon to open up the Configuration Screen)



2. Click on the button next to the S/PDIF Output text to enable S/PDIF
3. Set the Audio Output from the tray to digital audio



4. Plug your optical cable (not included) into the S/PDIF-Out port of Docking Station on one end, and the S/PDIF-In port of Digital Decoder or Speaker on the other end.



NOTE: NO NEED TO CONNECT ANY OTHER SPEAKERS CABLES IF THIS OPTION IS SELECTED. THE OPTICAL CABLE IS THE ONLY CABLE REQUIRED.

5. Connect your Digital Decoder or Speaker to the Home Theater

System

Connecting to a Monitor or LCD

Any monitor or LCD connected to the video port of the docking station will be limited to a maximum resolution of 1600x1200, 32-bit color.

Video Menu Options

Video menu options can be accessed by right-clicking on the Targus Display icon in the system tray or through the Windows Display Properties.

The only menu option not accessible through Windows Display Properties is Mirror. This must be accessed through the Targus Display icon.

To change the resolutions using the Windows Display properties:

1. Place the mouse on an empty spot on your desktop, then right click and select properties.
2. On the Display properties screen, Click on the "settings" tab.
3. Change the screen resolution or color depth in this screen.
4. Click "OK" to close the "Display properties" screen

To Change the resolution and modes using the Targus Display icon:

1. Position the Mouse on the top of the Targus Icon and right click on it.
2. From this screen, you can change the resolutions and modes that the Dock operates in (see below explanation of the video modes supported).

Primary: You are using a monitor or LCD (not your notebook screen) as your primary screen.

Extended: You are using your notebook screen as your primary display and your monitor or LCD is a secondary screen, extending your desktop to span both screens.

Mirror: You are using your notebook screen as your primary display and your monitor or LCD replicates your notebook screen.

Off: You are using your notebook screen as your primary display and your monitor or LCD is turned off.

Resolution: Changing resolution from the Targus utility will only affect the monitor connected to the docking station video port.

	<u>Notebook Screen</u>	<u>Secondary Monitor or LCD</u>
Primary:	Off	On
Extended:	On	On
Mirror:	On	On
Off:	On	Off



NOTE: SOME LCDS HAVE BEEN OPTIMIZED FOR A SPECIFIC RESOLUTION. IF THE OPTIMUM RESOLUTION IS NOT 1280 X 1024, THE RESULTS MAY NOT BE AS DESIRED.

Video output will support the following resolutions and color quality:

Mode	Aspect ratio	Resolution	Color Depth	Refresh Rate
UXGA	4:3	1600x1200	16	60HZ, 65HZ, 70HZ, 75HZ, 85HZ
UXGA	4:3	1600x1200	32	60HZ, 65HZ, 70HZ
WSXGA+	16:10	1680x1050	32	60HZ, 65HZ, 70HZ
SXGA+	4:3	1400x1050	16	60Hz
SXGA	5:4	1280x1024	16,32	60HZ, 75HZ, 80HZ
QVGA	4:3	1280x960	16,32	60HZ, 75HZ, 85HZ
WXGA+	16:10	1440x900	32	60Hz
WGA	15:9	1280x768	16,32	60Hz
WXGA	16:10	1280x800	16,32	60Hz
XGA	4:3	1024x768	16,32	60HZ, 70HZ, 75HZ, 85HZ, 120HZ
SVGA	4:3	800x600	16,32	60HZ, 72HZ, 75HZ, 85HZ, 120HZ, 160HZ
VGA	4:3	640x480	16,32	60HZ, 72HZ, 75HZ, 85HZ, 120HZ, 160HZ



Note: All refresh rates listed are Non-Interlaced.

Global Suspend Mode

When your computer is in suspend mode, the docking station also enters suspend mode to avoid power consumption. When your computer wakes up, the docking station wakes up automatically.

Using USB Devices that Require More Power

This docking station is designed with 4 USB High Power Ports 2 of which, providing up to 1000mA of power each to power hungry peripherals such as printers, scanners, optical drives, and others.

Troubleshooting

Device Not Working

- Make sure that the device is fully inserted into the correct port on the docking station.
- Plug the device into a different port on the docking station. If it still doesn't work, test the device by connecting it directly to your computer.
- Verify that you ran the Setup or Install program for the device.
- Make sure that the device appears in Device Manager. For more information refer to "Verifying Devices are Installed".
- Disconnect all devices from the docking station and reconnect them, one at a time. Check that each device works before plugging in the next one.
- Each USB port is equipped with over-current protection. Should a USB device draw more current than the USB port can supply, the port will shut down. To re-enable the port, unplug the device and go to *Device Manager* or to the message in the system tray and choose the **Reset** option. You can then plug the device back into the USB port. If a shut down reoccurs, check the power requirements of the device.

Verifying Devices are Installed

You can view the devices installed on the docking station from the Device Manager window in System Properties.

Right-click **My Computer, Properties**, then click the **Hardware** tab, and then the **Device Manager** button.

From the Device Manager window, expand the following:

- Display Adapters - Targus ExpressCard w/ video
- Human Interface Devices - displays keyboards and pointing devices: mice, trackballs, and joysticks
- Network Adapters — Realtek RTL 8110SC Ethernet Adaptor
- Ports (COM & LPT) — Serial on USB [COM x]
- Sound, Video and Game Controllers — displays USB audio device
- Universal Serial Bus controllers — displays the other devices installed for the docking station and generic hub

Verifying a Serial Modem Connection

When attaching a modem to the serial (RS232) port, verify that the port assigned to your modem is Serial USB (COMx), where x is the number of the COM port.

If the operating system does not detect automatically that your modem is assigned to Serial USB (COMx), run the Hardware Wizard again and choose **Select** from the list instead of **Autodetect**. Then, select **Serial USB (COMx)** as the COM port.

Error Message on Your PDA

If the error message “Connection Not Established” appears on your PDA, check that the COM port setting in either your HotSync or ActiveSync software matches the setting on the docking station. See “Verifying Devices are Installed” to verify the COM port setting on the docking station.

Some older versions of the Palm® Desktop software are not compatible with the USB to Serial conversion. Please contact your PDA vendor for software updates.

Video

Can I get a higher resolution on my monitor?

- Highest resolution is 1600 x 1200, 32-bit color.

Movie playback is not smooth when played at 1600x1200x32 bit resolution. It is worse when playing a media clip in full screen?

The Targus ExpressCard Docking station is not primarily designed for playing back movie content at maximum resolution and color depth. The best mode for displaying video content is at 1280x1024 (SXGA) resolution or lower.

The reason for this is the large amount of display data being transferred during movie playback. Standard DVD movies are encoded at a resolution of 720x480 (NTSC), and 720x576 for PAL discs. Higher resolution display of the video will result in upscaling the display to the higher resolution, which does not gain any net affect on the playback of the movie.

Ways to improve the smoothness of the movie playback are:

- Reduce the resolution of the display to 1280x1024 with lower color depth (16 Bit Color)
- Terminate any other CPU intensive applications running on the computer.

I cannot play a DVD using the Docking station?

DVD playback is controlled by the DVD playback software and the hardware on your notebook. Many DVD playback software programs are not capable of supporting DVD playback on an external or secondary monitor. If you encounter problems playing back videos in Extended mode, try switching the Video mode on the Docking station to Primary or Mirror mode.

Unexpected Crashes or power state issues?

Please make sure you have upgraded your system BIOS on your Notebook. Several popular model notebook vendors have released BIOS upgrades that resolve a number of ExpressCard related issues (Lenovo, Fujitsu).

My system crashes during boot up with the Card connector installed?

Try switching the Pre-boot switch to the on position and boot again.

Can two separate displays be connected to the ExpressCard Docking station (VGA and DVI-D) and display two separate images or work to extend the display across three screens (including the Notebooks screen)?

No. The output from the VGA port and the DVI port are the same.

Audio

I cannot hear anything through my Notebook's Speakers.

Some Notebooks default to the ExpressCard Docking station's onboard USB Audio device when the Docking station is connected, disabling your notebook's built in speakers. To enable your Notebook's speakers, do the following:

1. Open the Control Panel, and select "sounds and Audio Devices".
2. On the "Audio" Tab under the "Sound Playback" section, select your Notebook's internal Audio device (will be a device other than the USB Audio device of the Docking Station).

If you still cannot get the Audio device to Play from your speakers:

1. Open the Control Panel, and select "sounds and Audio Devices".
2. On the "Audio" Tab under the "Device Volume" section, click "Advanced".
3. Uncheck the "Mute All" box



NOTE: You will need to close any applications that are using audio and restart them in order to enable this change.

Technical Support

For technical questions, please visit:

US Internet: www.targus.com/support.asp

Australia Internet: www.targus.com.au

Email: infoaust@targus.com

Telephone: 1800-641-645

New Zealand Telephone: 0800-633-222

Product Registration

Targus recommends that you register your Targus accessory shortly after purchasing it. Go to:

<http://www.targus.com/registration.asp>. You will need to provide your full name, email address, phone number, and company information (if applicable).

Warranty

Targus warrants this product to be free from defects in materials and workmanship for one year. If your Targus accessory is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear and tear, or consequential or incidental loss. Under no conditions is Targus liable for loss of, or damage to a devices nor loss of, or damage to, programs, records, or data; nor any consequential or incidental damages, even if Targus has been informed of their possibility. This warranty does not affect your statutory rights.

Regulatory Compliance

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.

FCC Statement Tested to Comply

This equipment has been tested and found to comply with the limits of 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 the dealer or an experienced radio/TV technician for help.

Changes or modifications not authorized by the party responsible for compliance could void the user's authority to operate this product.

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