

Qosmio Series Notebook Computers User Reference Guides



How to Connect a Sky Digital Set Top Box (Qosmio F10/F20 Series and Qosmio G10/G20 Series)

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Introduction

This document is provided in order to offer guidance and assistance in connecting and setting up either the Qosmio F10/F20 or Qosmio G10/G20 series of audio/visual personal computers to operate with a Sky Digital set top box.

It is strongly recommended that you read and understand each of the steps detailed herein before you begin carrying them out. In the event that you do not understand anything described, you are advised to refer to the reseller or place of purchase for either the Qosmio computer or the Sky Digital set top box for assistance.

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The instructions contained within this document have been provided to assist you with the use of the Qosimo range of products with the Sky Digital set top box. However, Toshiba Information Systems (UK) Limited shall not be responsible for any updates or changes that may occur with the third-party hardware which may affect the validity of the information contained herein.

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Before You Begin

Before you begin you should ensure that you have all of the required hardware and accessories easily to hand - these are described and pictured below for your reference. Please note that not all of the items you require will have been provided with your Qosmio notebook - you may need to purchase additional items from an appropriate retail outlet.

Items Supplied with the Qosmio Notebook



Antenna cable - Qosmio jack to co-axial aerial connector

Please note that, depending on the model in question, your Qosmio notebook will only have been supplied with one of these items.



Media Center remote controller - the unit for the Qosmio F10 and G10 series is shown on the left, while that for the F20 and G20 series is shown on the right



Media Center remote controller infra-red receiver box and infra-red receiver for set top box remote control function

In addition to these items of hardware, you should also ensure that the Windows XP Media Center operating system is updated in relation to the following two areas:-

- All updates for the Windows XP Media Center operating system have been downloaded and installed - this can be achieved by clicking **start >>> All Programs >>> Windows Update**.
- The latest version of the TV tuner driver is downloaded and installed - this can be found on the Toshiba web site (<http://uk.computers.toshiba-europe.com/>) by selecting **Support & Downloads** followed by **Download Files** and then completing all of the drop-down boxes as appropriate for your model of Qosmio, ensuring that **TV Tuner** is selected within the **Driver Type** box.

Methods of Connecting the Qosmio Notebook to Accept a Television Signal

Once you have the correct items of hardware and have upgraded the Windows XP Media Center operating system as appropriate, you should next decide how you are going to connect the Qosmio to accept a television signal from the Sky Digital set top box. The notebook itself is capable of accepting one of three different input types, each of which offers differing levels of sound and image quality, and each of which is described below for reference:-

Coaxial Cable Connection

<i>Image Quality</i>	Poor
<i>Connection</i>	Antenna-in port (see <i>Appendix A - Connecting a Qosmio through the Antenna-in Port</i>)
<i>Considerations</i>	Not all Sky Digital set top boxes output a digital signal through the RF-out socket but instead initially convert it to an analogue format. In the event that the set top box to which you are connecting the Qosmio provides a digital output through the RF-out socket, you will need to know which channel is being used for this signal in readiness for the software configuration process described later - this information is normally detailed within the User Manual provided with the set top box.

Composite Cable Connection

<i>Image Quality</i>	Medium
<i>Connection</i>	Monitor-in port (see <i>Appendix B - Connecting a Qosmio through the Monitor-in Port</i>)
<i>Considerations</i>	When using a composite connection it will be necessary to purchase an additional cable - a SCART Connector to 3-Plug RCA cable - which can then be used in conjunction with the monitor-in cable provided with the Qosmio.

In addition to the cabling considerations, by default Windows XP Media Center has all audio input channels enabled which means that, when a connection is made to the monitor-in port, the audio signal will be duplicated on both the *Wave* and *Line In* channels. As the audio signal that goes through the *Line-in* channel is in an uncompressed format it will be presented to the user approximately half a second ahead of the video resulting in playback that is almost unwatchable. This issue can be resolved by muting the *Line-in* channel by following the procedure detailed below:-

- Click **start >>> Control Panel**.
- If the *Control Panel* application is in *Category View...*
 - Click **Sounds, Speech and Audio Devices**.
 - Click **Advanced Volume Controls** from the left hand pane.
- If the *Control Panel* application is in *Classic View...*
 - Double-click **Sounds and Audio Devices** and then click the **Advanced...** button.
- Within the *Volume Control* window, check the *Mute* box within the *Line In* section.
- Close the *Volume Control* window by clicking the cross in the top right-hand corner.

S-Video Cable Connection

<i>Image Quality</i>	High
<i>Connection</i>	S-Video input port for video (see <i>Appendix C - Connecting a Qosmio through the S-Video Input Port</i>) Monitor-in port for audio (see <i>Appendix B - Connecting a Qosmio through the Monitor-in Port</i>)
<i>Considerations</i>	When using an S-Video connection it will be necessary to purchase an additional cable - a SCART Connector to S-Video cable - which will attach directly to the appropriate port on the Qosmio. However, you should also note that, although S-Video provides the best picture quality, it does not carry any audio signal which means that a further cable will be needed to connect the RCA audio output sockets on the set top box, if they are present, to the composite input port on the Qosmio.

Please note that not all Sky Digital set top boxes support S-Video output through the SCART socket and, for those that do, this feature must usually be activated via the set top box setup menu.

In addition to the cabling considerations, by default Windows XP Media Center has all audio input channels enabled which means that, when a connection is made to the monitor-in port, the audio signal will be duplicated on both the *Wave* and *Line In* channels. As the audio signal that goes through the *Line-in* channel is in an uncompressed format it will be presented to the user approximately half a second ahead of the video resulting in playback that is almost unwatchable. This issue can be resolved by muting the *Line-in* channel by following the procedure detailed below:-

- Click **start >>> Control Panel**.
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 - Click **Sounds, Speech and Audio Devices**.
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- If the *Control Panel* application is in *Classic View...*
 - Double-click **Sounds and Audio Devices** and then click the **Advanced...** button.
- Within the *Volume Control* window, check the *Mute* box within the *Line In* section.
- Close the *Volume Control* window by clicking the cross in the top right-hand corner.

Step-by-Step Instructions

Detailed below are the instructions that you should follow in order to connect the Qosmio personal computer to a Sky Digital set top box and then configure the Windows XP Media Center operating system to receive satellite television broadcasts.

Part One - Initial Configuration of the Media Center Application

Please note that this section assumes the presence of an Internet connection in order that the subsequent setup and configuration processes can be properly completed, and the Electronic Program Guide (EPG) downloaded - you must therefore ensure that the Qosmio is connected to the Internet before continuing with the following instructions. In addition, please be aware that all of the instructions that are contained within this section have been developed on the assumption that (a) an 'always on' broadband (DSL) connection to the Internet is available, and (b) the Media Center infrared remote control receiver box has been connected to one of the Qosmio's free USB ports.



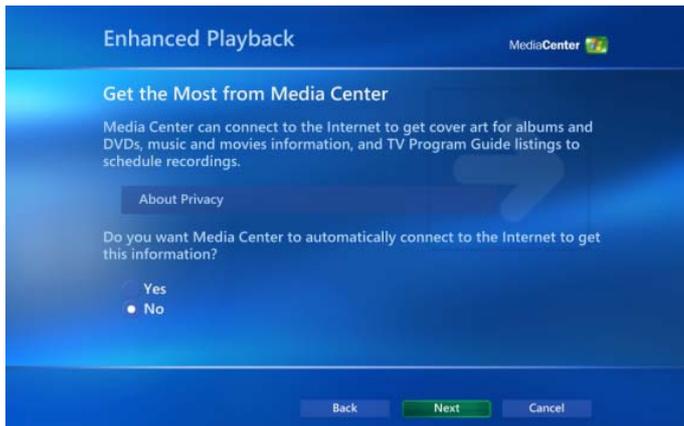
- 1) Switch the Qosmio on and allow the Windows XP Media Center operating system to fully load.
- 2) Press the **START** button on the Media Center remote controller to start the Media Center application.
- 3) At the opening *Welcome to the Media Center Setup Wizard* screen, select **Next**.



- 4) At the *Media Center Setup* screen, select **Next**.



- 5) At the *Media Center Privacy Policy* screen, select **Next**.



- 6) At the *Get the Most from Media Center* screen, click either *Yes* or *No* as appropriate for your environment and then select **Next**.



- 7) At the *Join a Wireless Network* screen, click either *Yes* or *No* as appropriate for your environment and then select **Next**.



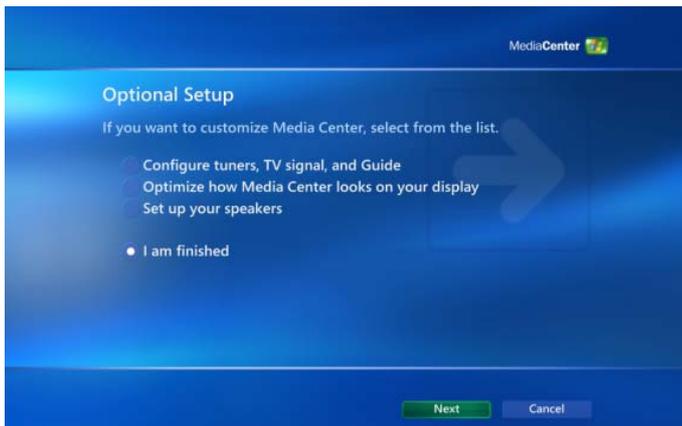
- 8) At the *"Always on" Internet Connection* screen, click *Yes* and then select **Next**.



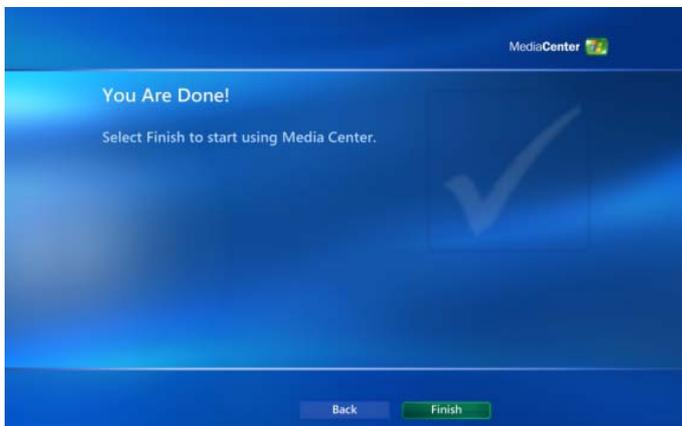
- 9) At the *Test Your Internet Connection* screen, click the **Test** button in order to check that the notebook is able to obtain information from the Internet. In the event that no problems are encountered, and the system displays the *Connection Working* message, select **Next**.



- 10) At the *Required Components Have Been Set Up* screen, select **Next**.



- 11) At the *Optional Setup* screen, click the *I am finished* option and then select **Next**.

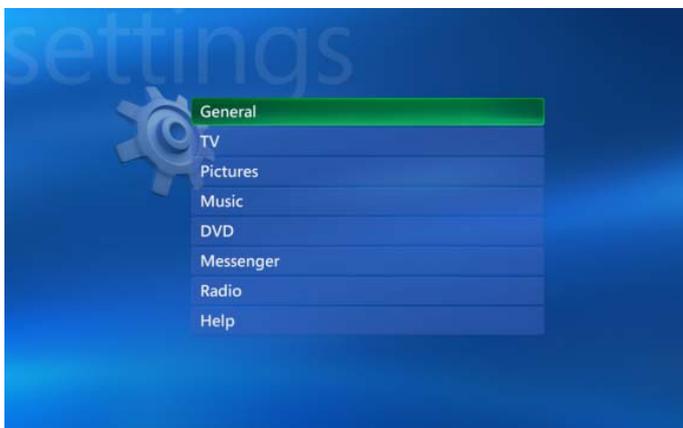


- 12) At the *You Are Done!* screen, select **Finish** - this will complete the initial configuration and automatically take you to the Media Center menu.

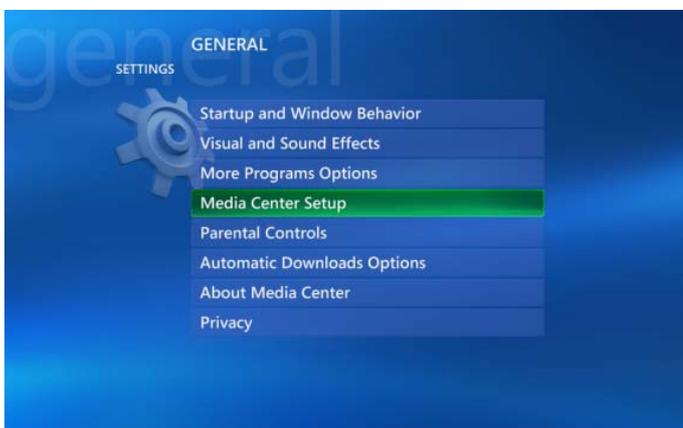
Part Two - Configuring the Media Center Application to Receive Sky Digital Transmissions



- 1) Switch the Qosmio on and allow the Windows XP Media Center operating system to fully load.
- 2) Press the **START** button on the Media Center remote controller to start the Media Center application.
- 3) From the *Media Center* menu scroll through the options and select **Settings**.



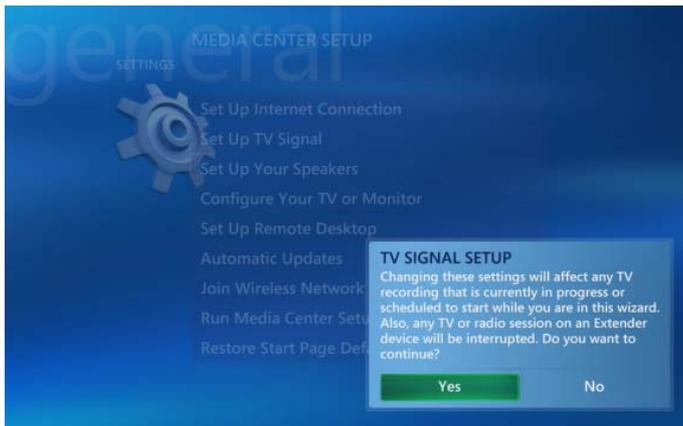
- 4) From the *Settings* menu, select **General**.



- 5) From the *General* menu, select **Media Center Setup**.



- 6) From the *Media Center Setup* menu, select **Set Up TV Signal**.



- 7) In the event that the screen as shown on the left is displayed, you should take note of the effect that continuing will have on areas such as any recordings that might be scheduled, before selecting **Yes**.

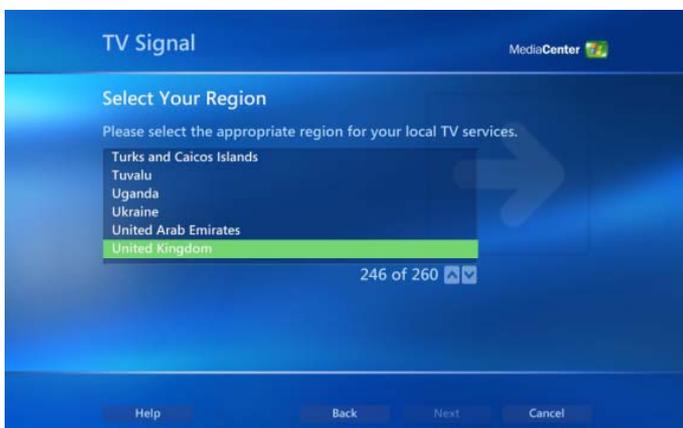


- 8) At the *Set Up Your TV Signal* screen, select **Next**.



- 9) At the *Confirm Your Region* screen, ensure that the current region is set to *United Kingdom* before clicking the *Yes, use this region to configure TV services* option and then selecting **Next**. Once this procedure has been completed you should proceed to Step (11).

In the event that the current region is not set to United Kingdom, you should instead click *No, I want to select a different region*, select **Next** and then proceed to Step (10).



- 10) At the *Select Your Region* screen, use the up and down arrows to highlight *United Kingdom* from the list presented and then select **Next**.



- 11) At the *Automatic TV Signal Setup* screen, click the *I will manually configure my TV signal* option and then select **Next**.



- 12) At the *Select Your TV Signal* screen, click *Satellite* and then select **Next**.



- 13) At the *Select Your TV Signal Type* screen, click *Analog Terrestrial (PAL/SECAM)* option and then select **Next**.



- 14) At the *Prepare for Set-top Box Setup* screen, select **Next**.



- 15) At the *Select a Working TV Signal* screen you will be provided with four options, of which the first three need to be considered in order to continue with the configuration process. If you are connecting you Qosmio to the Sky Digital set top box via:-

Co-axial cable, then proceed to Step (16).
Composite video cable, then proceed to Step (18).
S-Video cable, then proceed to Step (19).



- 16) At the *Select a Working TV Signal* screen, select the *Enter Channel* option and enter the channel your Sky Digital set top box broadcasts at - this information will usually be detailed within the User Manual provided with the set top box and will be between channels 21 and 69.



- 17) At the next *Select a Working TV Signal* screen, and once the correct channel number has been entered, a picture will be displayed indicating this part of the configuration has been completed successfully.

If this is the case, select **Next** and then proceed to Step (20).



- 18) At the *Select a Working TV Signal* screen, select the *Composite Video* option - the Media Center application will automatically detect the signal input and display a picture indicating this part of the configuration has been completed successfully.

If this is the case, select **Next** and then proceed to Step (20).



- 19) At the *Select a Working TV Signal* screen, select the *S-Video* option - the Media Center application will automatically detect the signal input and display a picture indicating this part of the configuration has been completed successfully.

If this is the case, select **Next** and then proceed to Step (20).



- 20) In the event that the *Set-top Box Already Configured* screen is displayed, select the *Reconfigure all set-top box settings* option and then select **Next**.



- 21) At the *Set-top Box Remote* screen, click *Yes* and then select **Next**.

In the event that you Sky Digital set top box does not come with its own remote control you should instead click *No*, select **Next** and then proceed to Step (33).



- 22) At the *Identify Set-top Box Remote* screen, select **Next**.



23) At the next *Identify Set-top Box Remote* screen, point the remote controller for the set top box at the external infrared receiver box, press its '0' key, together with any other keys that may be requested, and follow the on-screen instructions - you will then need to proceed as follows:-

- If the *Remote Not Recognised* screen is displayed, proceed to step (24).
- If the *Set-top Box Remote Identified* screen is displayed, proceed to Step (32).

If necessary, please refer to *Appendix D - Using the Windows Media Centre Infra-red Receiver Box* for considerations on correctly using remote control devices in conjunction with the Qosmio notebook.



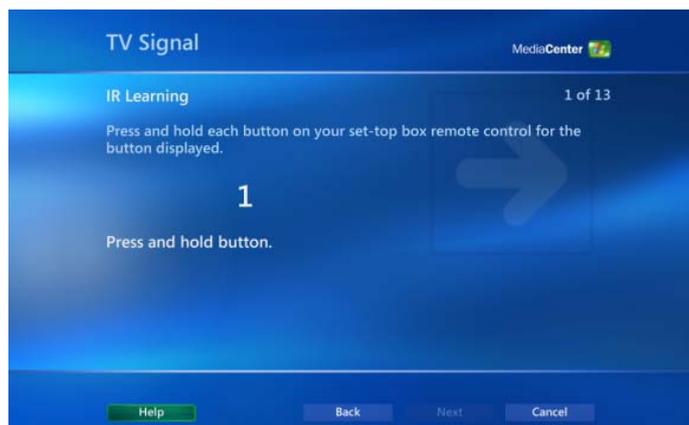
24) At the *Remote Not Recognized* screen, click *Have Media Center learn my remote from scratch* and then select **Next**.



25) At the *Prepare to Identify Remote* screen, select **Next**.



26) At the *Channel Change Buttons* screen, ensure that you read the information presented before clicking either *Yes* or *No* as appropriate for your remote controller, and then select **Next**.



- 27) At the *IR Learning* screen, press and hold the corresponding button on your Sky Digital set top box remote controller until the instruction *Release button to continue* is displayed - at this point you may find that you need to repeat the same button multiple times while the Media Center application learns its signal format.

You should repeat this step for each of the remaining numbers on the remote controller before continuing on to Step (28).



- 28) At the next *IR Learning* screen, press and hold the button on your Sky Digital set top box remote controller that equates to 'Enter' until the instruction *Release button to continue* is displayed - at this point release the button in order to proceed to the next stage of the configuration process.



- 29) At the next *IR Learning* screen, press and hold the button on your Sky Digital set top box remote controller that equates to 'Next Channel' until the instruction *Release button to continue* is displayed - at this point release the button in order to proceed to the next stage of the configuration process.



- 30) At the next *IR Learning* screen, press and hold the button on your Sky Digital set top box remote controller that equates to 'Previous Channel' until the instruction *Release button to continue* is displayed - at this point release the button in order to proceed to the next stage of the configuration process.



- 31) At the *Set-up Box Codes Learned Successfully* screen, select **Next** and then proceed to Step (33).



- 32) At the *Set-top Box Remote Identified* screen, select **Next**.



- 33) At the *Select Number of Digits* screen, click the appropriate option based around the highest channel number your set top box supports - generally this will be *Three digits* for most Sky Digital installations - and then select **Next**.



- 34) At the *How Do You Change Channels?* screen, click the appropriate option based around how your remote controller changes channels and then select **Next**.



- 35) At the *Test Channel Changing* screen, use the Media Center remote controller to enter the number of a channel you know that your set top box is able to receive.

Please note that, in the event your model of Qosmio notebook has been supplied with the small form factor remote controller, which does not include a dedicated numeric keypad, then you should use the numeric keys on the notebook's keyboard to enter the channel number, click the appropriate option based around the results experienced and then select **Next**.



- 36) At the *Set IR Signal Speed* screen, use the Channel Up and Channel Down buttons on the Media Center remote controller to change channel at least six times.

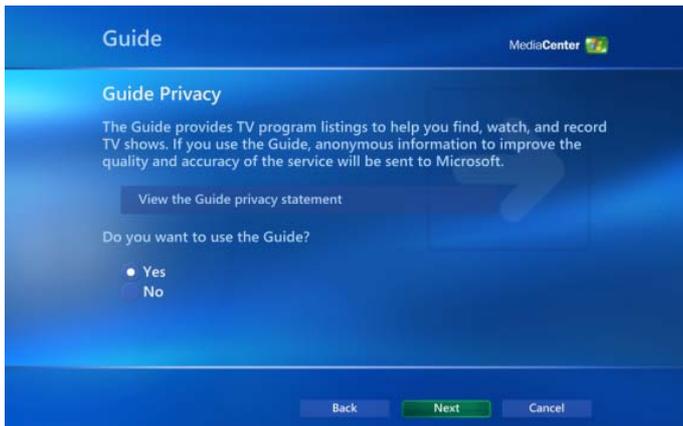
In the event that no problems are encountered, click *The channel changed correctly* and then select **Next**.



- 37) At the *IR Signal Speed Set* screen, select **Next**.

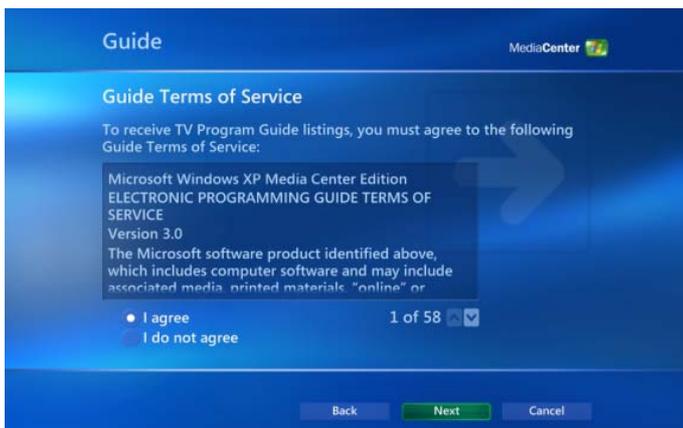


- 38) At the *Set Up Your TV Program Guide* screen, select **Next**.

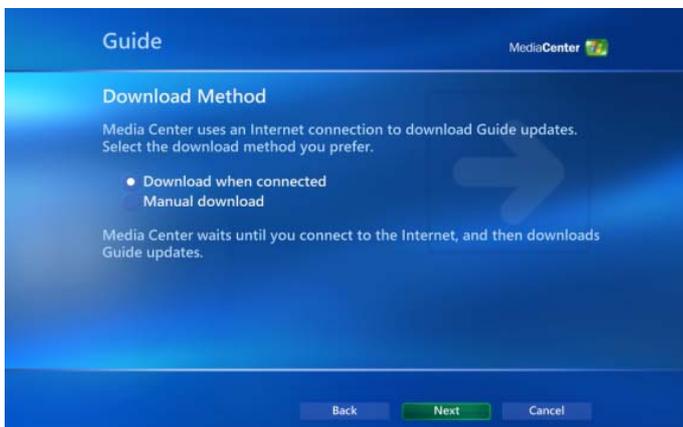


- 39) At the *Guide Privacy* screen, click *Yes* and then select **Next**.

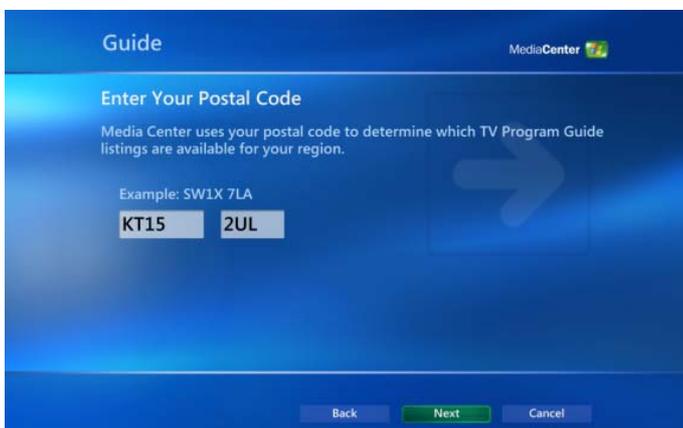
In the event that you elect not to use the Electronic Programme Guide (EPG), you should select *No* and then proceed to Step (46).



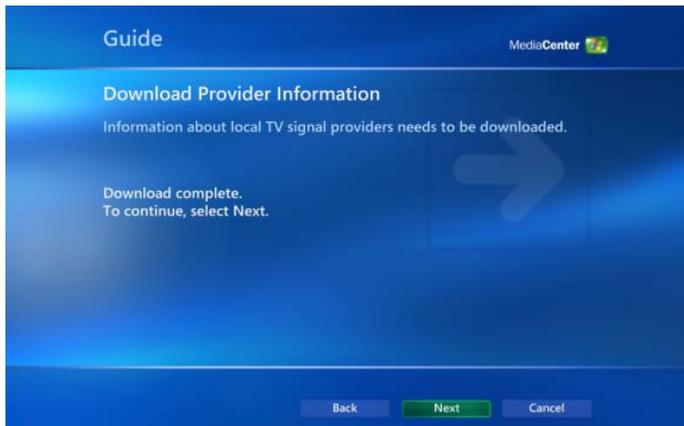
- 40) At the *Guide Terms of Service* screen, click *I agree* and then select **Next**.



- 41) At the *Download Method* screen, click *Download when connected* and then select **Next**.



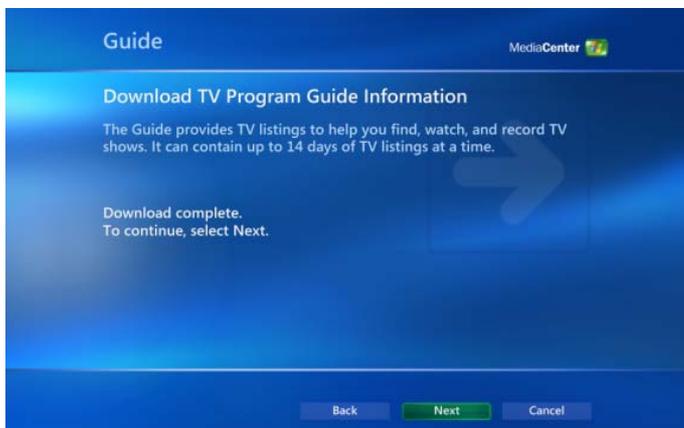
- 42) At the *Enter Your Postal Code* screen, enter the full postal code of the location where the computer is being used and then select **Next** - the system will then automatically connect to the Internet in order to download the current Electronic Programme Guide (EPG) provider information.



- 43) In the event that no problems are encountered obtaining the provider information, and the system displays the *Download Complete* message, select **Next** and then proceed to Step (43).



- 44) At the *Select TV Signal Provider* screen, highlight one of the Sky Digital providers listed and then select **Next** - Media Center will then automatically connect to the Internet in order to obtain the current Electronic Programme Guide (EPG) information.



- 45) In the event that no problems are encountered obtaining the programme guide information, and the system displays the *Download Complete* message, select **Next**.



- 46) At the *You Are Done!* screen select **Finish** - this will complete the configuration of the system to receive broadcasts through your Sky Digital set top box and automatically return you to the *Settings* menu.

From the *Settings* menu, press **Backspace** three times in order to return to the Media Center menu.



- 53) From the Media Center menu scroll through the options and select **My TV**.



- 54) From the *My TV* menu, select **Live TV** - if appropriate, this will use the information downloaded previously and display the current channel on the notebook's display.

You are then able to change channel by either entering the channel number via the remote controller or keyboard, using the **PgUp** or **PgDn** keys, or using the **Channel Up** or **Channel Down** buttons on the remote controller.

Part Three - Tuning the Qosmio Player (Automatic Process)

Step 1

- Using the antenna cable, connect the RF-out socket on the rear of your Sky Digital set top box to the antenna port of the Qosmio. Refer to *Appendix A - Connecting a Qosmio through the Antenna-in Port* for further information.



The above photographs show the format of the TV button for the Qosmio F10/10 series, Qosmio F20 series and Qosmio G20 series respectively

Step 2

- With the Qosmio notebook switched off, press the TV button - this will switch the system on, invoke the Qosmio Player application and display the current television signal (by default at first switch on this should be 'white noise').

Step 3

- Press the **F1** key - this will display a list of keystrokes along the bottom of the screen.
- Press **F2 Setup** to display the Qosmio Player setup and configuration screen.
- Using the **Up** and **Down** cursor keys ensure that *Channel Settings* is highlighted on the left hand side of the screen before pressing the **Right** cursor key to move to the right hand side of the screen onto the channel configuration options.
- Ensure that *Channel Auto-Scan* is highlighted and then press **Enter**.
- On the following menu that is displayed, ensure that *Antenna* is highlighted and then press **Enter**.
- At the *Channel Auto-Scan* confirmation window that is subsequently displayed, ensure that *Continue* is highlighted and then press **Enter** - the Qosmio will then scan through all possible channels and eventually configure the one on which the Sky Digital set top box signal is found (for the purpose of these instructions we will assume this is channel 68).

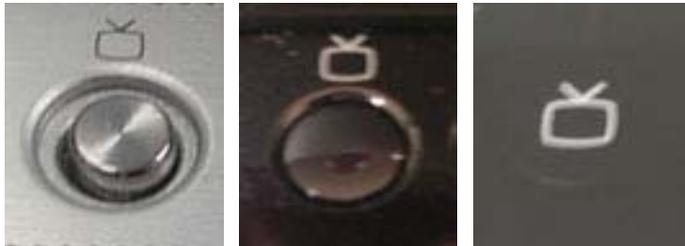
Important Note

Using this procedure will configure the Sky Digital channel number according to the configuration of the particular set top box - in our example channel 68) - which may make it difficult/illogical when changing from the terrestrial channels to the Sky channels. For example, while you may enter **1** on the Qosmio's keyboard for BBC1 and **3** for ITV1, you would have to enter **6** followed by **8** in order to view any of the Sky channels. In the event that you find this inconvenient you may wish to configure the channel settings manually, so that the Sky Digital signal can be displayed by entering **6**, by following the instructions as detailed in **Part Two - Tuning the Qosmio Player (Manual Process)** later in this document.

Part Four - Tuning the Qosmio Player (Manual Process)

Step 1

- Using the antenna cable, connect the RF-out socket on the rear of your Sky Digital set top box to the antenna port of the Qosmio. Refer to *Appendix A - Connecting a Qosmio through the Antenna-in Port* for further information.



The above photographs show the format of the TV button for the Qosmio F10/10 series, Qosmio F20 series and Qosmio G20 series respectively

Step 2

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Step 3

- Press the **F1** key - this will display a list of keystrokes along the bottom of the screen.
- Press **F2 Setup** to display the Qosmio Player setup and configuration screen.
- Using the **Up** and **Down** cursor keys ensure that *Channel Settings* is highlighted on the left hand side of the screen before pressing the **Right** cursor key to move to the right hand side of the screen onto the channel configuration options.
- Move down until *Manual Channel Programming* is highlighted and then press **Enter** - this will show the current television signal together with four boxes along the base of the screen, *Input Channel*, *Display Channel*, *Actual Channel* and *Skip*.
- With the *Input Channel* option highlighted, use the **Up** and **Down** cursor keys to set it to **6**.
- If necessary, move across to the *Display Channel* option and use the **Up** and **Down** cursor keys to set this to **6** also.
- Move across to the *Actual Channel* and, using the **Up** and **Down** cursor keys, move through the channels that are being received until the Sky Digital signal is displayed - ensure that you note down the channel number, for example **68**.
- Move across to the *Skip* option and, using the **Up** and **Down** cursor keys, ensure this is set to **Off** - this should result in a configuration similar to the following:-

<u>Input</u> Channel	<u>Display</u> Channel	<u>Actual</u> Channel	<u>Skip</u>	<u>Equates to...</u>
6	6	68	Off	Sky Digital

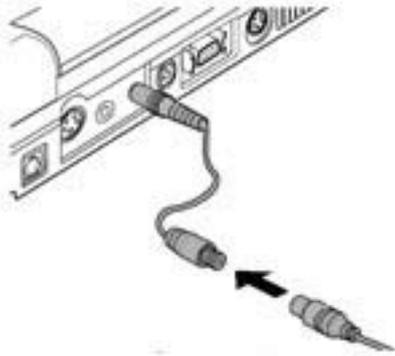
- Once this process has been completed correctly, press **Enter** followed by **F1** - you will now be able to select the Sky Digital channel by simply pressing **6** on the Qosmio's keyboard.

Appendices

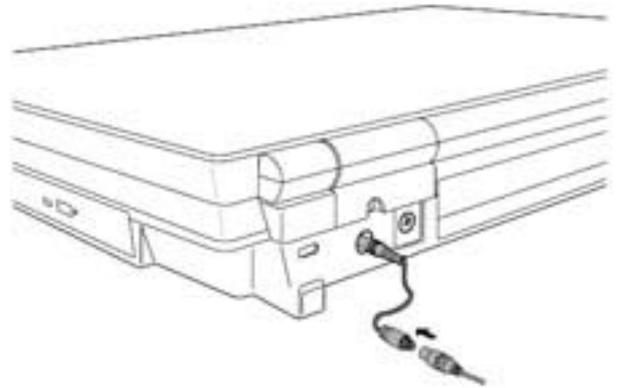
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Appendix A - Making a Connection Using the Antenna-in Port

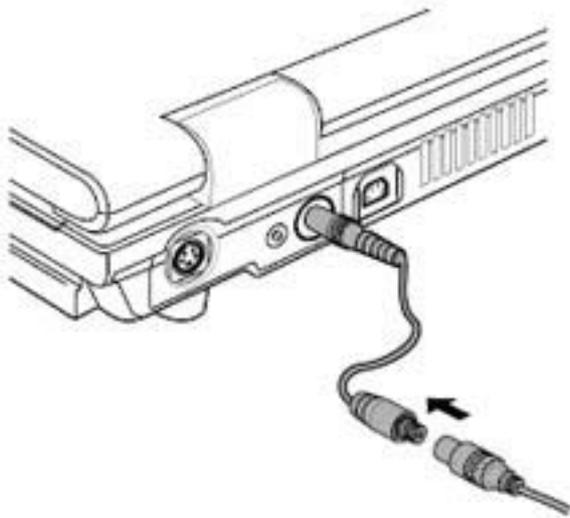
The following illustrations show the location of the antenna-in port on each of the four different models of Qosmio notebook covered by this document. Please be aware that you will need to attach the co-axial cable from the Sky Digital set top box to the co-axial aerial connector that was supplied with the notebook before connecting this assembly to the antenna-in port.



Qosmio F10 Series



Qosmio F20 Series



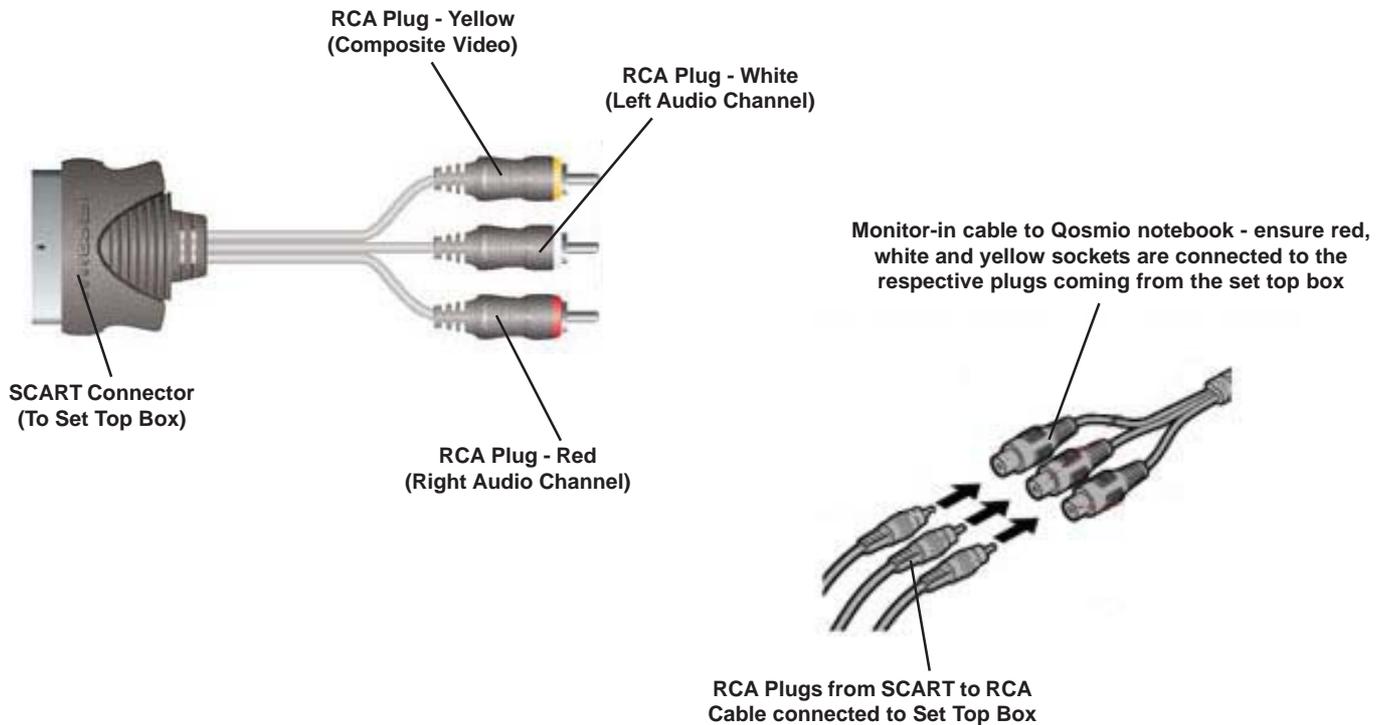
Qosmio G10 Series



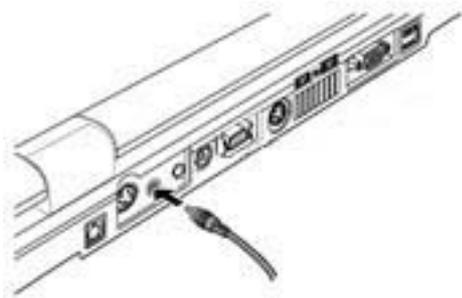
Qosmio G20 Series

Appendix B - Making a Connection Using the Monitor-in Port

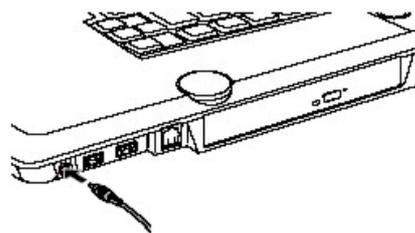
The following illustrations show the means of establishing a connection between the Sky Digital set top box and the monitor-in cable supplied with the Qosmio notebook, and also highlight the location of the monitor-in port on each of the four different models of Qosmio notebook covered by this document.



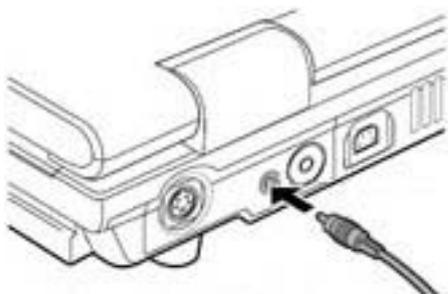
The above illustrations show the format of the optional SCART to RCA cable that should be connected to the Sky Digital set top box (left) and the method of connecting this to the monitor-in cable supplied with the Qosmio notebook (right)



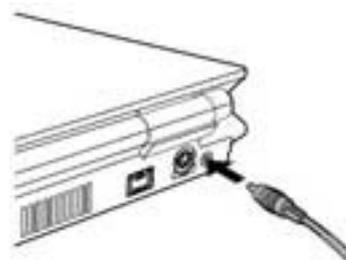
Qosmio F10 Series - Location of Monitor-in Port



Qosmio F20 Series - Location of Monitor-in Port



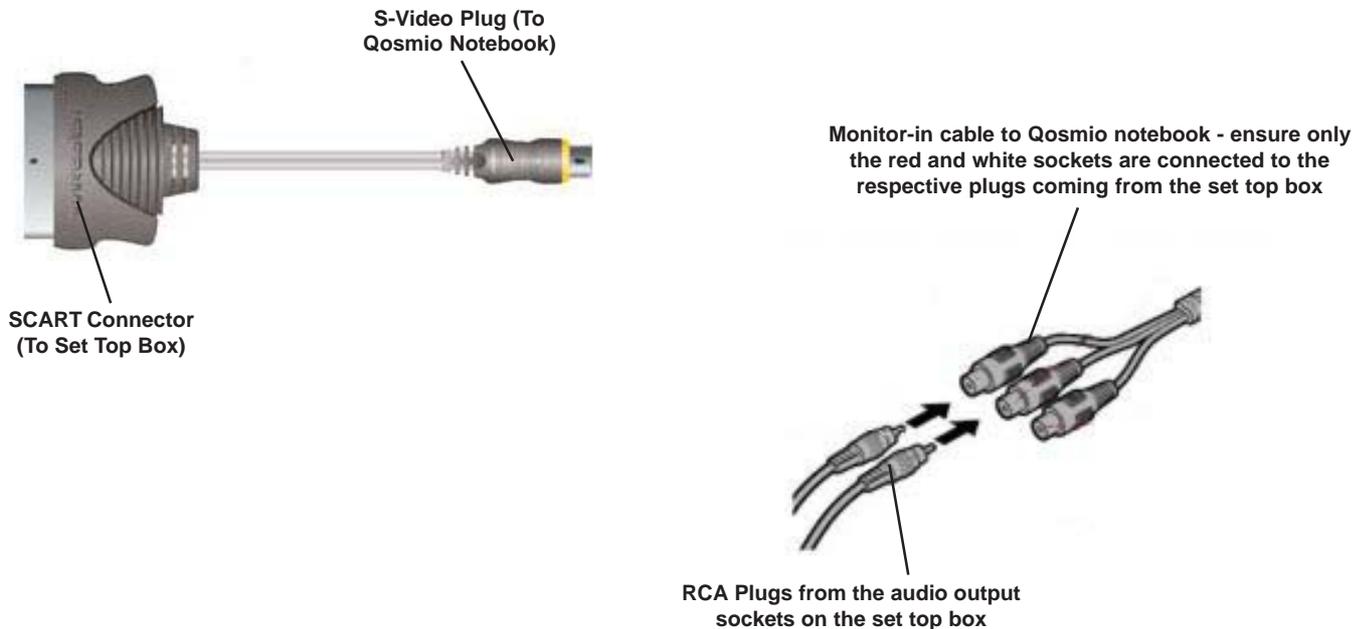
Qosmio G10 Series - Location of Monitor-in Port



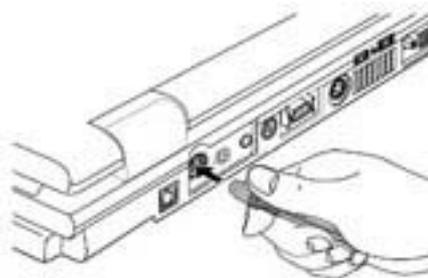
Qosmio G20 Series - Location of Monitor-in Port

Appendix C - Making a Connection Using the S-Video Input Port

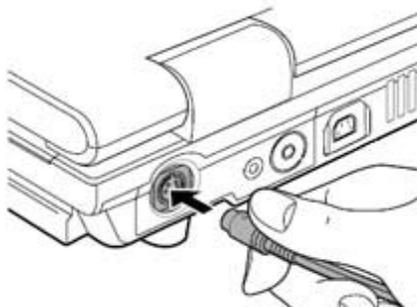
The following illustrations show the means of establishing a connection between the Sky Digital set top box and both the S-Video input port and the monitor-in port on the Qosmio notebook, and also highlight the location of the S-Video input port on each of the three different models of Qosmio notebook covered by this document (the Qosmio F20 series does not offer an S-Video input port).



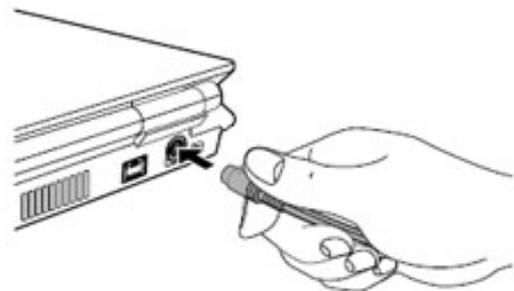
The above illustrations show the format of the optional SCART to S-Video cable that should be connected to the Sky Digital set top box to receive a video signal (left) and the method of connecting an RCA audio cable to the monitor-in cable supplied with the Qosmio notebook to receive sound (right)



Qosmio F10 Series - Location of S-Video Input Port



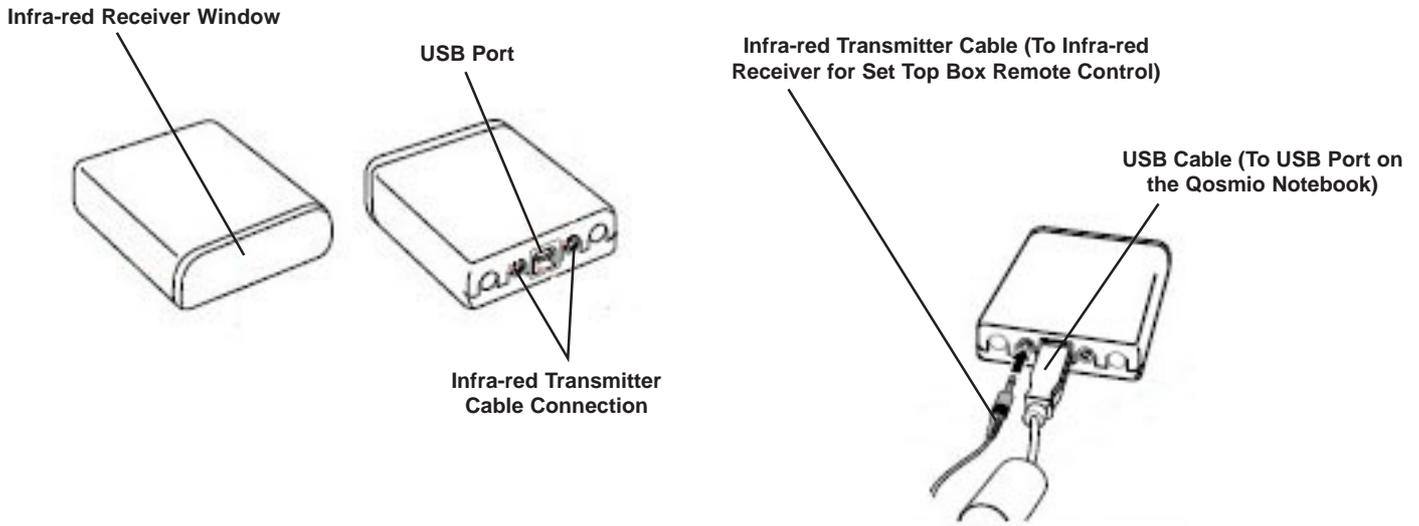
Qosmio G10 Series - Location of S-Video Input Port



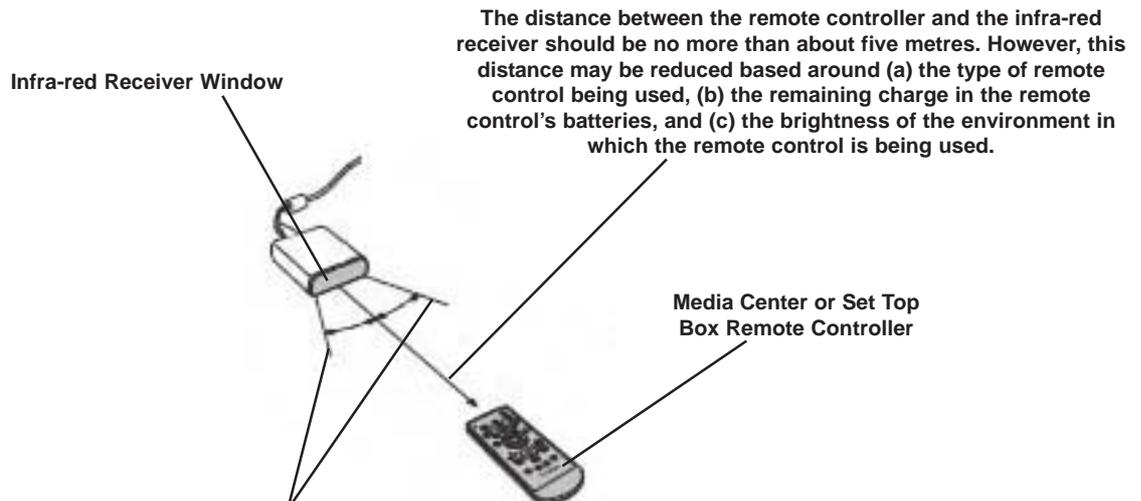
Qosmio G20 Series - Location of S-Video Input Port

Appendix D - Using the Windows Media Center Infra-red Receiver Box

The following illustrations show an overview of the infra-red receiver box and its external connections, and provides guidance as to its use in conjunction with a remote control device to ensure that no problems are encountered when performing functions such as controlling the Media Center application and changing channels on a set top box.



The above illustrations show the general layout of the infra-red receiver box and details the means of connecting it both to the infra-red receiver for use with the set top box remote control, and to the Qosmio notebook itself.

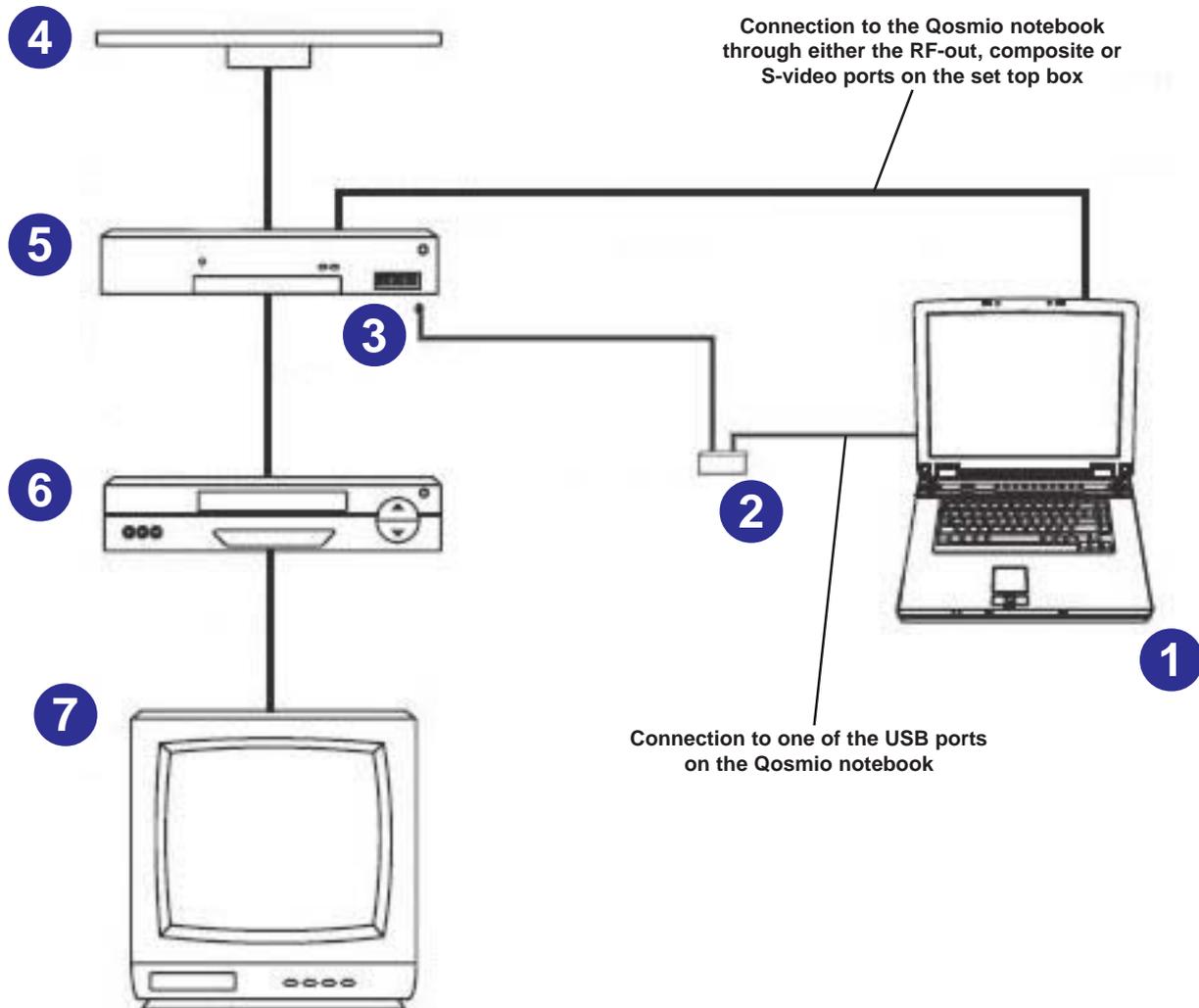


The remote controller should be used at approximately a 30° angle horizontally and a 15° angle vertically in relation to the position of the infra-red receiver window. If it is used outside of these angles you may find that the signals produced by the remote controller do not get recognised by either the Qosmio notebook or the set top box.

The above illustration shows specific considerations that will need to be made to ensure that the signals from the appropriate remote controller are properly received by either the Qosmio notebook and/or the Sky Digital set top box.

Appendix E - Overview of Equipment Connectivity

The following illustration details the required and optional equipment that can be used in order to connect a Sky Digital set top box to your Qosmio notebook, and provides an overview of how each of these components are connected together.



- 1) **Qosmio notebook**
- 2) **Media Center Infra-red Receiver Box** This device is required in order to use the Media Center remote controller to control the functionality of the Media Center application and allow channel to be changed on the Sky Digital set top box.
- 3) **Infra-red Transmitter Cable** One end of this cable attaches to one of the ports on the Media Center Infra-red Receiver Box (2), while the other is placed in front of the infra-red receiver window on the Sky Digital set top box to allow the Media Center remote controller to be used to change channels.
- 4) **Wall Socket** Provides a connection to external satellite dish.
- 5) **Sky Digital Set Top Box**
- 6) **Video Recorder / DVD Recorder** This device is included in order to illustrate the method of connecting a recording device into the configuration - if no video recorder or DVD recorder is present then the Sky Digital set top box will connect directly into the appropriate input socket on the display device.
- 7) **Display Device**