



BroadSat, Customer Care

Harmonic Cyber Stream card used for OPENSKY™ Services Configuration Guide

27/03/2002



SECTIONS

I- Driver Installation

II- Driver Configuration

I – Driver Installation

There are two ways to get the latest version of the Harmonic DVB card's driver:

1. If a version of the driver is already installed in the PC, a connection to the Internet can be done by selecting Start->Programs->Harmonic->Update on the menu, and automatically the program will check if a recent version is present on the web site and it will then download it;
2. If no version of the driver is installed in the PC, the last version can be downloaded from the web site:
<http://www.harmonicdata.com/frames/cyberstream/cyberstreaminstall.htm>

II – Driver Configuration

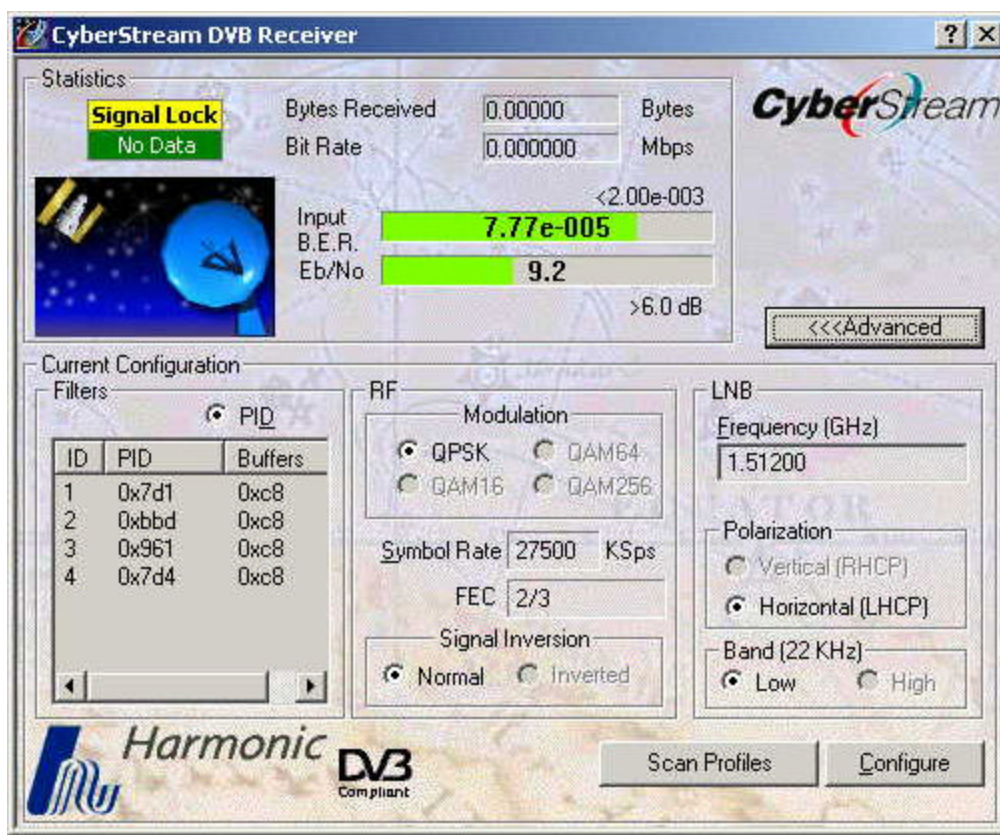
After installing the driver and Windows being rebooted, the Harmonic Driver will automatically start; in this phase it is possible to get error messages regarding the frequency parameters: these messages should be ignored by selecting *OK*.

When the application is loaded, a circular icon (red, yellow or green, depending on the status of the configuration) will appear in the system tray (Fig. 1).



(Fig. 1)

Double click on the icon and a configuration window will appear (Fig. 2).



(Fig. 2)

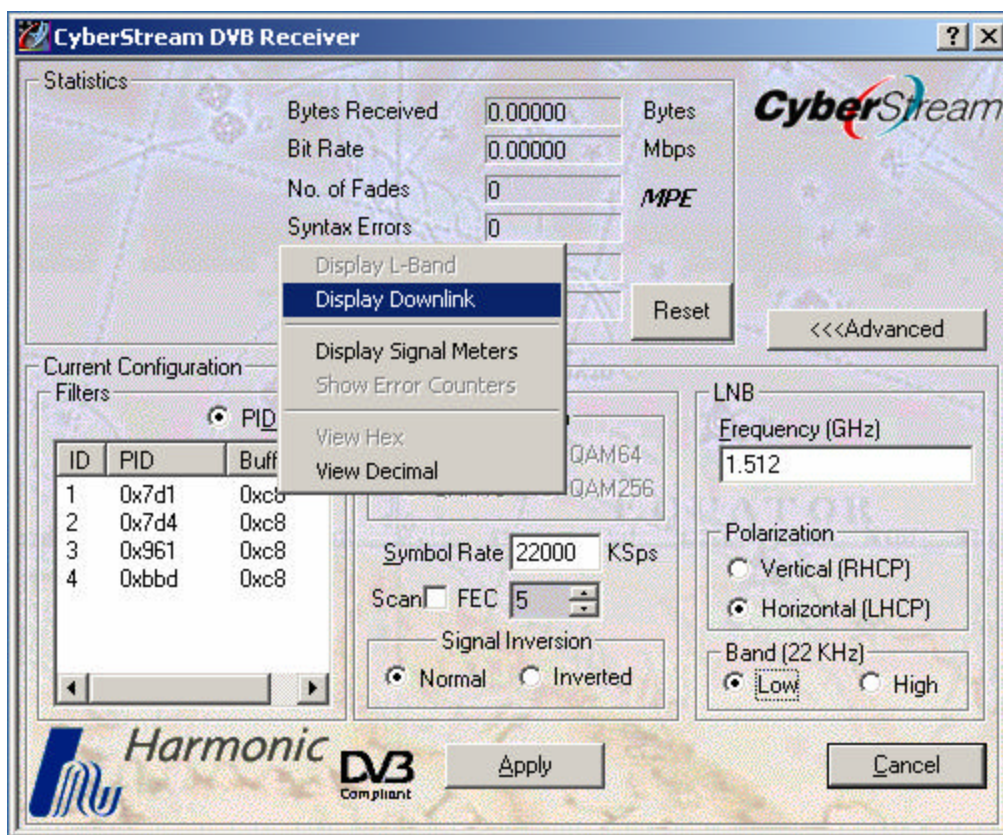
To insert the OPENSky™ parameters the *Configure* button has to be pressed and in the **LNB** panel the following values have to be inserted:

Frequency (Ghz): 1.512

Polarization: Horizontal

Band: Low

Then, if you want to set the parameters of the transponder, it is necessary to right click anywhere in the windows and select **Display Downlink** from the displayed applet (Fig. 3).



(Fig. 3)

Set the **Local Oscillator** value to 9.75 in the **LNB** panel and set the **Downlink** value to 11.262.

In the **RF** panel these following values have to be set:

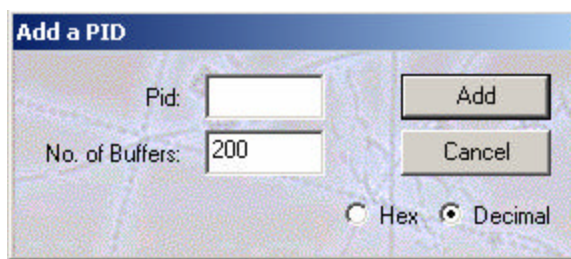
Modulation: QPSK

Symbol Rate: 27500

Signal Inversion: Normal

Then the **Scan** option has to be selected.

In the **Filters** panel it may be necessary to change the PIDs shown by the application, or add new PIDs if required. A right click on the panel will display a contextual menu. Choose the *Add PID* option and set the values (Fig. 4):



(Fig. 4)

The PIDs to be inserted (either in decimal or hexadecimal notation) are:

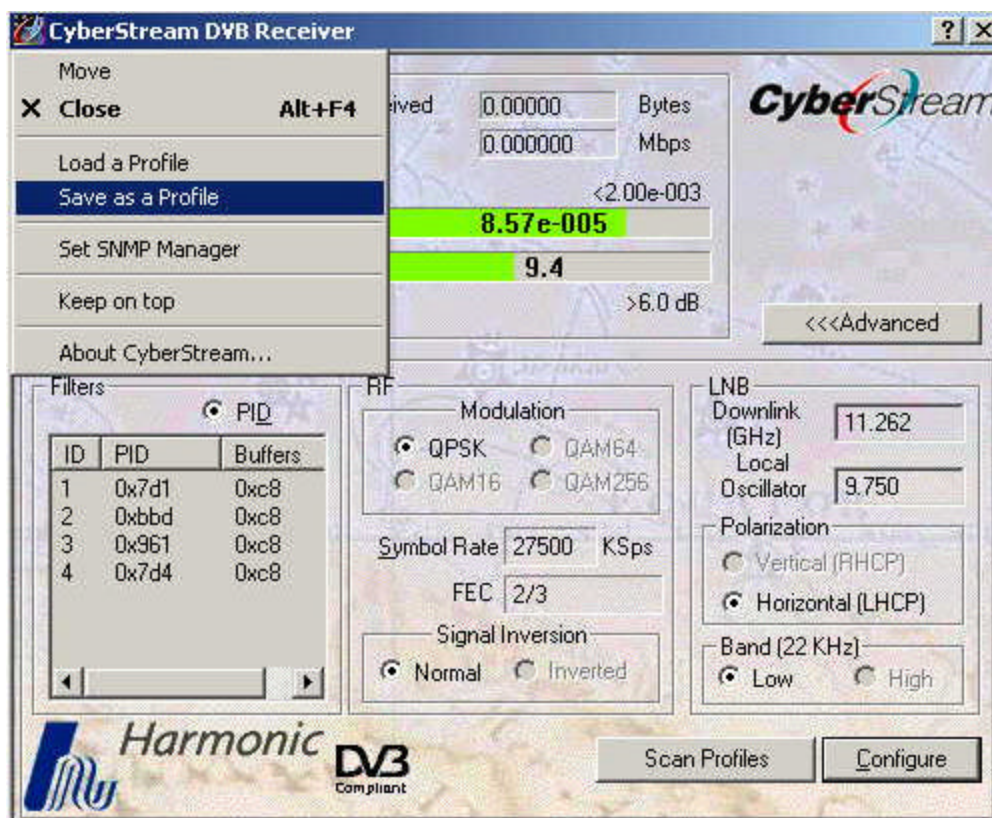
	<i>Decimal</i>	<i>Hexadecimal</i>
Multicast	2001	7D1
	2002	7D2
	2004	7D4
Unicast	3010 ¹	BC2
	3011	BC3
	3012	BC4
	3013	BC5
Push	2401	961

Some parameters may be different, depending on the satellite kit.

Finally click on the *Apply* button. The red icon in the system tray will become yellow: that means the signal is locked, but the card is not receiving any data. This icon will become green when data can be received from the satellite on a particular PID (Video streaming, Push, or Unicast).

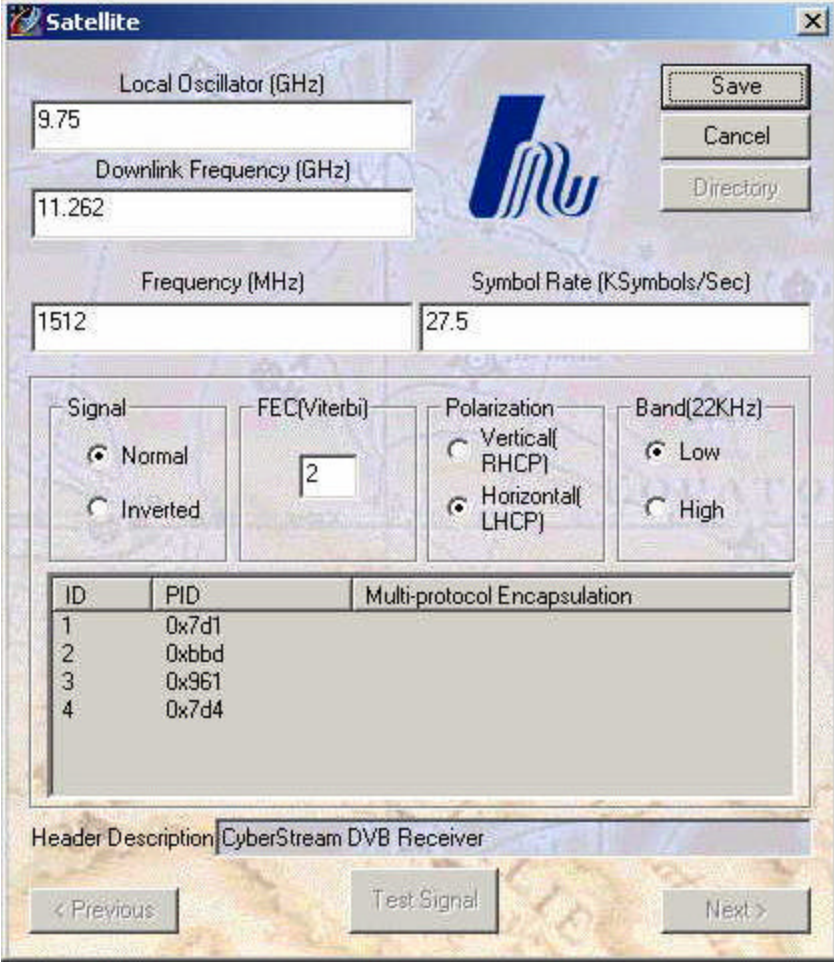
Save these settings by clicking on the left top corner windows and choose the *Save as Profile* option:

¹ PID assigned by Eutelsat at registration to access Unicast services.



(Fig. 5)

A new window will appear (as shown in Fig 6); Press the *Save* button and choose a filename (for example *opensky11262.inf*).



Satellite

Local Oscillator (GHz): 9.75

Downlink Frequency (GHz): 11.262

Frequency (MHz): 1512

Symbol Rate (KSymbols/Sec): 27.5

Signal: ☒ Normal ☐ Inverted

FEC(Viterbi): 2

Polarization: ☐ Vertical(RHCP) ☒ Horizontal(LHCP)

Band(22KHz): ☒ Low ☐ High

ID	PID	Multi-protocol Encapsulation
1	0x7d1	
2	0xbbd	
3	0x961	
4	0x7d4	

Header Description: CyberStream DVB Receiver

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(Fig. 6)