

Stellar T1 PC Card **RS-422 Driver/Utility User** Guide

Version 1.0

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Revision A August 1999

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Chapter 1: Using the Stellar T1 PC Card RS-422 Driver/Utility

RadiSys Microware Communications Software Division, Inc. has written this Windows NT RS-422 driver for the Stellar T1 PC Card so that the card can be used with the DAVID UpLink Server software package.

Along with the driver there is also a utility which is used to configure the driver.

This chapter contains the following sections:

- Hardware Installation
- Configuring the Stellar T1 PC Card Driver
- Trouble Shooting





Hardware Installation

Using the manual that arrived with the Stellar T1 PC Card, perform the following steps:

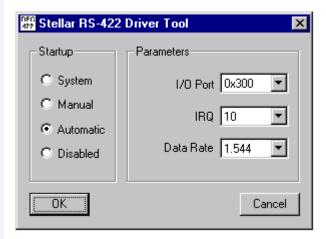
- Step 1. Make sure all of the jumpers are in their default positions, as defined on pages 7 and 8 of the Stellar manual.
- Step 2. Set the IRQ jumper (JU-7) as appropriate for your PC. The jumper may be set to IRQ5, IRQ9, IRQ10, IRQ11, IRQ12 or IRQ15. See Table 5 in the Stellar manual for jumper settings to select a particular IRQ. Select an IRQ which is not already in use on your PC. On some PC's it may be necessary to reserve the IRQ using the BIOS setup program supplied with the PC.
- Step 3. Set the I/O address jumper (JU-12) as appropriate for your PC. See Table 7 in the Stellar manual for available address settings and associated jumper settings. Select an I/O address which is not already in use on your PC.
- Step 4. Plug the card into an ISA slot in your PC.

Configuring the Stellar T1 PC Card Driver

Before changing the Stellar T1 PC Card driver configuration, stop the device STEL422 using the Windows NT Devices control panel.

Launching the utility reg422.exe brings up the dialog in Figure 1-1.

Figure 1-1 Stellar RS-422 Driver Tool Dialog



There are two configurable sections in the dialog: Startup and Parameters. Figure 1-1 shows the default settings.

Startup

The Startup section of the dialog is used to select when the device starts up. This characteristic of the device can also be set using the Windows NT Devices control panel.

The device in the Devices control panel will be named STEL422. The device path for the Stellar card is \\\.\\DOS422.



Parameters

The Parameters section of the dialog is used to configure the driver to match the address and IRQ settings of the Stellar T1 PC Card. This section also adjusts the speed at which the card should transmit data.

I/O Port

This drop-down menu is used to select the address that the Stellar T1 PC Card jumper (JU-12) has been set to.

IRQ

This drop-down menu is used to select the IRQ that the Stellar T1 PC Card jumper (JU-7) has been set to.

Data Rate

This drop-down menu is used to select the rate at which the Stellar T1 PC Card will transmit data. This should be set to match the bit rate of the MPEG transport stream. The values listed in the menu are in millions of bits/second. The available speeds are shown in **Table 1-1**.

Table 1-1 Stellar T1 PC Card Transmission Rates

Data Rates			
1.536 Mb/s			
1.544 Mb/s			
3.072 Mb/s			
3.088 Mb/s			
6.144 Mb/s			
6.176 Mb/s			

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To change the data rate after the initial installation, complete the following steps:

- Step 1. Stop the STEL422 device using the Devices control panel.
- Step 2. Change the data rate using the reg422.exe utility. Click OK to save new values.
- Step 3. Start the STEL422 device using the Devices control panel.



Trouble Shooting

- The 1.536, 1.544, 3.072, and 3.088 data rates have been tested on a 233MHz Pentium II.
- The 6.144 and 6.176 clock speeds will likely require at least a 300MHz Pentium II.
- Make sure that the I/O address and IRQ setting used for the Stellar card are not being used by any other device in the system.

Product Discrepancy Report

To: Microware Customer Supp	ort
FAX: 515-224-1352	
From:	
Company:	
Phone:	
Fax:	Email:
Product Name:	
Description of Problem:	
Host Platform	
Target Platform	



