CS261

DVI Computer Sharing Device

RS232 Commands

V1.0

User Manual

www.aten.com

EMC Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The 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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

CE Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

KCC Statement

유선 제품용 / A 급 기기 (업무용 방송 통신 기기)

이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이점을 주의하시기 바라며 , 가정 외의 지역에서 사용하는 것을 목적으로 합니다 .

RoHS

This product is RoHS compliant.

SJ/T 11364-2006

The following contains information that relates to China.

部件名称	有毒有害物质或元素					
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
电器部件	●	○	○	○	○	○
机构部件	○	○	○	○	○	○

○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求之下。

●: 表示符合欧盟的豁免条款，但该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

RS-232 Operation

Overview

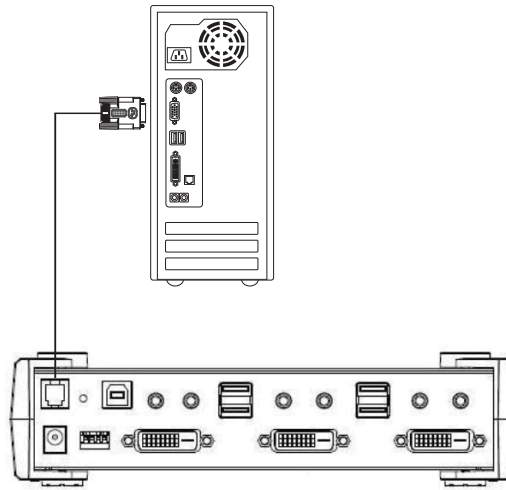
The CS261's built-in bi-directional RS-232 serial interface allows system control through a high-end controller or PC. RS-232 serial operations in a CS261 installation are managed via HyperTerminal sessions on systems that are running Windows. In order to use this feature to send commands to the CS261, you must first download and install a HyperTerminal application. For more detailed instructions and information about each of the commands provided in this manual, please refer to the original CS261 user manual.

Setup

Install a HyperTerminal application on a computer that is not part of the CS261 setup, which will be connected and used to control the CS261 via RS-232. HyperTerminal applications can be download from the internet, and many operating systems are embedded with HyperTerminal applications.

Hardware Connection

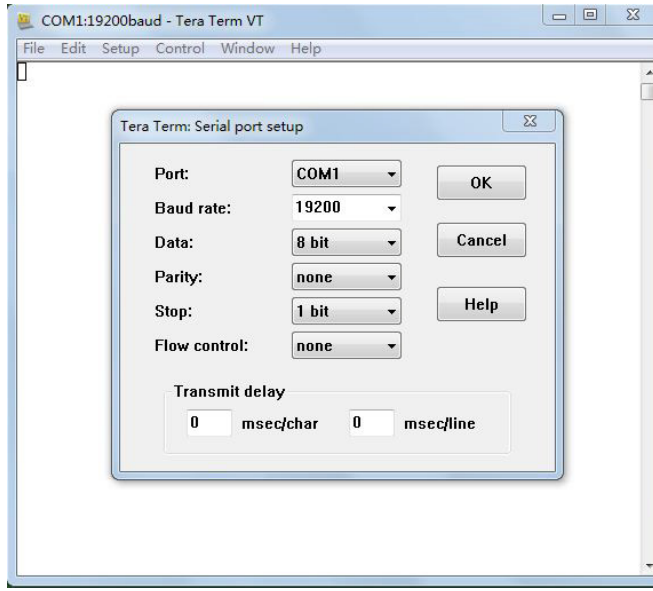
Use an RJ-11 to DB-9 serial adapter (ATEN model no.: LIN5-04A2-J11G) to connect the computer's serial port to the *Serial* port of the CS261, as shown below:



Console Login - HyperTerminal

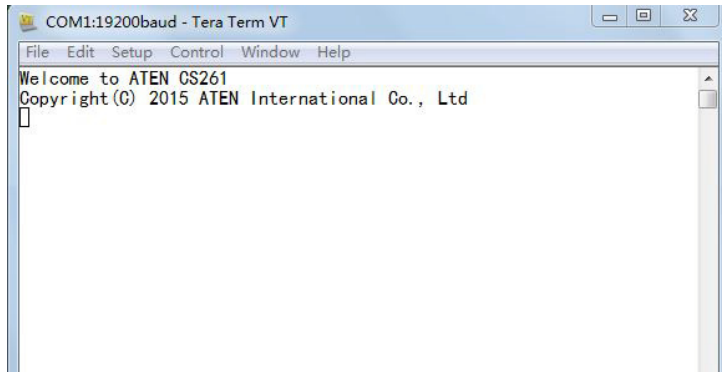
Once a physical connection from the computer to the CS261 has been made, you can establish a HyperTerminal session using the instructions below.

1. Open the *HyperTerminal* application, and configure the port settings for the appropriate COM port number, then click **OK**.



Bits per Second: **19200**, Data Bits: **8**, Parity: **None**, Stop bits: **1**, Flow Control: **None**.

2. When configured correctly a login prompt like the one below appears:



RS-232 Commands

After you login via HyperTerminal (see *Console Login - HyperTerminal*, page 5), you can use the instructions below to send RS-232 commands to control the CS261 from a remote system.

When the RS-232 link is opened, the CS261 will no longer accept commands from front panel buttons or most of hotkey functions (excluding hotkey switching mode, console status and turn off/on the other monitor and audio).

For more detailed instructions and information about each of the RS-232 commands listed below, please refer to the original CS261 user manual.

Verification

After entering a command, a verification message appears at the end of the command line, as follows:

Response Message	Description
command OK	Command or parameter is correct.
command incorrect	Command or parameter is incorrect.

Switch Operation

The switch port command allows you to switch between computers connected to the CS261's ports. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formula:

Command + Input Command + [Enter]

Parameters:

Command	Description
sw	Switch Operation Command

Input Command	Description
auto	Select auto mode
px	Input console number manually, x= 1~2 (Default: 1)
private	Select private mode. Privileged user depends on DIP switch pin 4 setting.

Enter	Description
Enter	Enter and send out command

Switch Console Commands

Some available formulas for the Switch Console commands are as follows:

Command + Input Command + [Enter]

To switch to console 2, type the following:

sw p2 [Enter]

To switch to auto mode, type the following:

sw auto [Enter]

Note: 1. Each command string can be separated with a space.

2. The default console selected is 1.

3. The ASCII code for Enter is 0x0D0A.

Keyboard Language Layout

The Keyboard Language Layout command allows you to change the keyboard language layout. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formula:

Command + Control + [Enter]

Parameters:

Command	Description
layout	Change Keyboard Language Layout

Control	Description
en	Change the keyboard language layout to English
fr	Change the keyboard language layout to French
jp	Change the keyboard language layout to Japanese
ge	Change the keyboard language layout to German

Enter	Description
Enter	Enter and send out command

Keyboard Language Layout Commands

Some available formulas for Keyboard Language Layout commands are as follows:

Command + Control + [Enter]

To change the keyboard language layout to Japanese, type the following:

layout jp [Enter]

To change the keyboard language layout to French, type the following:

layout fr [Enter]

Note: 1. Each command string can be separated with a space.

2. The default language is English.

3. The ASCII code for Enter is 0x0D0A.

Set Operating System

The Set Operating System command allows you to set the operating system for a port. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formula:

Command + Control + [Enter]

Parameters:

Command	Description
os	Set Operating System Command

Control	Description
pc	Change operating system to PC
mac	Change operating system to Mac
sun	Change operating system to Sun

Enter	Description
Enter	Enter and send out command

Set Operating System Commands

Some available formulas for Set Operating System commands are as follows:

Command + Control + [Enter]

To change the console's operating system to Mac, type the following:

os mac [Enter]

To change the console's operating system to PC, type the following:

os pc [Enter]

Note: 1. Each command string can be separated with a space.

2. The default OS is PC.

3. The ASCII code for Enter is 0x0D0A.

Timeout

The Timeout command allows you to set the timeout period. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Control + [Enter]

Parameters:

Command	Description
timeout	Timeout Period

Control	Description
tx	Set timeout period x=1, timeout period is 5 seconds x=2, timeout period is 60 seconds x=3, timeout period is 120 seconds x=4, timeout period is 255 seconds

Enter	Description
Enter	Enter and send out command

Timeout Commands

Some available formulas for Timeout commands are as follows:

Command + Control + [Enter]

To set the timeout period to 5 seconds, type the following:

timeout t1 [Enter]

To set the timeout period to 255 seconds, type the following:

timeout t4 [Enter]

Note: 1. Each command string can be separated with a space.

2. The default timeout setting is t1.

3. The ASCII code for Enter is 0x0D0A.

EDID Mode

The EDID Mode command allows you to set EDID settings. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Control + [Enter]

Parameters:

Command	Description
edid	EDID Mode Command

Control	Description
remix	Implement the EDID of each connected display according to its connection when the CS261 is first powered on, or immediately after selecting the Remix option.
port1	Implement the EDID of the connected display to console1, and pass it to the source.
default 720p	Implement s ATEN's EDID 1280x720@60Hz.
default 1600	Implement s ATEN's EDID 1600x1200@60Hz.
default 1080p	Implement s ATEN's EDID 1920x1080@60Hz.

Enter	Description
Enter	Enter and send out command

EDID Mode Commands

Some available formulas for EDID Mode commands are as follows:

Command + Control + [Enter]

To set the remix EDID setting, type the following:

edid remix [Enter]

To enable the EDID of the display connected to console 1, type the following:

edid port1 [Enter]

Note: 1. Each command string can be separated with a space.

2. The default EDID mode setting is remix.

3. The ASCII code for Enter is 0x0D0A.

Screen Saver

The Screen Saver command allows you to set the timeout period before the screen saver is activated. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Control + [Enter]

Parameters:

Command	Description
scr	Set Screen Saver

Control	Description
tx	Set screen saver x=1, timeout period is 1 minute x=2, timeout period is 5 minutes x=3, timeout period is 10 minutes x=4, timeout period is 15 minutes x=5, timeout period is 20 minutes

Enter	Description
Enter	Enter and send out command

Timeout Commands

Some available formulas for Timeout commands are as follows:

Command + Control + [Enter]

To set the timeout period for 1 minute, type the following:

scr t1 [Enter]

To set the timeout period for 15 minutes, type the following:

scr t4 [Enter]

Note: 1. Each command string can be separated with a space.

2. The default timeout setting is t1.

3. The ASCII code for Enter is 0x0D0A.

Activate Beeper

The Activate Beeper command allows you to enable/disable the beeper function. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Control + [Enter]

Parameters:

Command	Description
beeper	Activate Beeper Command

Control	Description
off	Disable beeper
on	Enable beeper

Enter	Description
Enter	Enter and send out command

Activate Beeper Commands

Some available formulas for Activate Beeper commands are as follows:

Command + Control + [Enter]

To enable the beeper, type the following:

beeper on [Enter]

To disable the beeper, type the following:

beeper off [Enter]

Note:
- Each command string can be separated with a space.
- The default beeper setting is on.
- The ASCII code for Enter is 0x0D0A.

Hotkey Settings

The Hotkey Settings command allows you to enable/disable and change the hotkey used to invoke the HSM (Hotkey Settings Mode). Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Control + [Enter]

Parameters:

Command	Description
hotkey	Hotkey Settings Command

Control	Description
num	Change the HSM invoke key to: [Num Lock] + [-]
f12	Change the HSM invoke key to: [Ctrl] + [F12]

Enter	Description
Enter	Enter and send out command

Hotkey Settings Commands

Some available formulas for Hotkey Settings commands are as follows:

Command + Control + [Enter]

To change the HSM invoke key to [Num Lock] + [-], type the following:

hotkey num [Enter]

To change the HSM invoke key to [Ctrl] + [F12], type the following:

hotkey f12 [Enter]

Note: 1. Each command string can be separated with a space.

2. The default hotkey setting is num.

3. The ASCII code for Enter is 0x0D0A.

Hotkey Switching

The Hotkey Switching command allows you to change the hotkey switching mode. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Control + [Enter]

Parameters:

Command	Description
switch	Hotkey switching command

Control	Description
scroll	Change hotkey switching mode to: [Scroll] [Scroll]
ctrl	Change hotkey switching mode to: [Ctrl] [Ctrl]

Enter	Description
Enter	Enter and send out command

Hotkey Switching Commands

Some available formulas for Hotkey Switching commands are as follows:

Command + Control + [Enter]

To change the hotkey switching mode to [Scroll] + [Scroll], type the following:

switch scroll [Enter]

To change the hotkey switching mode to [Ctrl] + [Ctrl], type the following:

switch ctrl [Enter]

Note: 1. Each command string can be separated with a space.

2. The default hotkey switching setting is scroll.

3. The ASCII code for Enter is 0x0D0A.

USB Reset

The USB Reset command allows you to reset the USB connection. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Control + [Enter]

Parameters:

Command	Description
usbreset	USB Reset Command

Control	Description
on	Enable USB reset connection

Enter	Description
Enter	Enter and send out command

USB Reset Command

The available formula for the USB Reset command is as follows:

Command + Control + [Enter]

For example, to reset the USB connection, type the following:

usbreset on [Enter]

Note: 1. Each command string can be separated with a space.

2. The default USB reset setting is off.

3. The ASCII code for Enter is 0x0D0A.

Restore Default Settings

The Restore Default Settings command allows you to reset all of the CS261's settings back to the default. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + [Enter]

Parameters:

Command	Description
reset	Restore KVM Default Settings

Enter	Description
Enter	Enter and send out command

Restore Default Settings Command

The available formula for the Restore Default Settings command is as follows:

Command + [Enter]

For example, to restore all CS261 settings back to the default, type the following:

reset [Enter]

Note: The ASCII code for Enter is 0x0D0A.

Firmware Upgrade

The Firmware Upgrade command allows you to enable the firmware upgrade mode. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + [Enter]

Parameters:

Command	Description
upgrade	Firmware Upgrade Command

Enter	Description
Enter	Enter and send out command

Firmware Upgrade Command

The available formula for the Firmware Upgrade command is as follows:

Command + [Enter]

For example, to enable firmware upgrade mode, type the following:

upgrade [Enter]

Note: The ASCII code for Enter is 0x0D0A.

KVM Status

The KVM Status command allows you to display read-only information about the CS261's current KVM status. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + [Enter]

Parameters:

Command	Description
status	Display KVM Status Command

Enter	Description
Enter	Enter and send out command

KVM Status Command

The available formula for the KVM Status command is as follows:

Command + [Enter]

For example, to display the CS261's KVM status, type the following:

status [Enter]

A message similar to the one below will then appear:

```
hotkey: [numlock]+[-] / [scrolllock],[scrolllock]
os setting: pc
keyboard layout: english
```

Note: The ASCII code for Enter is 0x0D0A.

Info

The Info command allows you to display the CS261's current firmware version and ATEN copyright information. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + [Enter]

Parameters:

Command	Description
info	Info Command

Enter	Description
Enter	Enter and send out command

Info Command

The available formula for the Info command is as follows:

Command + [Enter]

For example, to display the CS261's device information, type the following:

info [Enter]

Note: The ASCII code for Enter is 0x0D0A.

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