

Pesa Cheetah/Cougar (CPU Link Protocol)

Requirements

- Router Control software option
- Serial Interface Cable (DB9 to DB9)
- Control DeviceMaster or Sealevel SeaLINK
- Ethernet Cable

Port Connections

Communications	
Router Serial COM Port	> DeviceMaster or SeaLINK RS-232 or RS-422
DeviceMaster or SeaLINK Ethernet	> Local Area Network Ethernet

Video	
Switcher Input BNC	> Router Video Out BNC

For More Information on...

- configuring switcher inputs, refer to the *Caprica User Guide*.

Cheetah Serial Interface Cable Pinouts

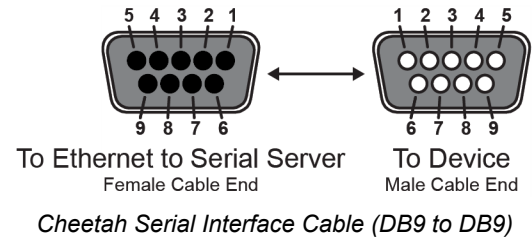
The Pesa Cheetah connects to the Caprica Server through an Ethernet to serial server using an RS-232 serial connection to a DB9 port on the Ethernet to serial server and a DB9 port on the device.

The DeviceMaster and the SeaLINK Ethernet to serial servers both use the following serial interface cable pinouts:

Ethernet to Serial Server		Cheetah		
Pin	Signal	Pin	Signal	
2	RxA (Rx-)	>	3	TxA (Tx-)
3	TxB (Tx+)	>	2	RxB (Rx+)
5	Ground		5	Ground
		>	4-6	Tied
		>	7-8	Tied

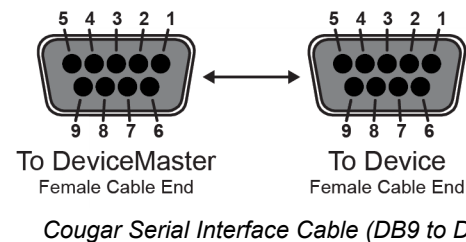
- ★ Pins 4 and 6, and pins 7 and 8 must be tied together.

- ★ When using a SeaLINK Ethernet to serial server in your OverDrive system, terminate any control signals that are not going to be used. The most common way to do this is connect RTS to CTS and RI. Also, connect DCD to DTR and DSR.



Cougar Serial Interface Cable Pinouts

The Pesa Cougar connects to the Caprica Server through an Ethernet to serial server using an RS-422 serial connection to a DB9 port on the Ethernet to serial server and a DB9 port on the device.



DeviceMaster

DeviceMaster		Pesa Cougar		
Pin	Signal	Pin	Signal	
2	RxA (Rx-)	>	3	TxA (Tx-)
7	TxB (Tx+)	>	2	RxB (Rx+)
8	RxB (Rx+)	>	8	TxB (Tx+)
3	TxA (Tx-)	>	1	RxA (Rx-)

SeaLINK

SeaLINK			Pesa Cougar	
Pin	Signal		Pin	Signal
2	RxA (Rx-)	>	3	TxA (Tx-)
4	TxB (Tx+)	>	2	RxB (Rx+)
1	RxB (Rx+)	>	8	TxB (Tx+)
3	TxA (Tx-)	>	8	RxA (Rx-)

★ When using a SeaLINK Ethernet to serial server in your OverDrive system, terminate any control signals that are not going to be used. The most common way to do this is connect RTS to CTS, connect positive to positive and negative to negative.

Configuring the Ethernet to Serial Server

The Ethernet to serial server in an OverDrive system handles the communication between your Pesa router and Caprica Server. OverDrive systems can contain a DeviceMaster or SeaLINK Ethernet to serial server. Use one of the following sections to configure the Ethernet to serial server in your OverDrive System:

- “**DeviceMaster**” on page 4–2
- “**SeaLINK**” on page 4–2

DeviceMaster

The Cheetah and Cougar Pesa routers connect to a serial port on the DeviceMaster. Use the following procedure to configure the DeviceMaster for your Pesa router:

1. Use a web browser to open the **Server Status** web page for your DeviceMaster. The default IP address for a DeviceMaster is 192.168.250.250.
The **Server Status** web page opens in the web browser.
2. Click **Port #** link, where # is the port number on the DeviceMaster to which you connect your Pesa.
The **Edit Port # Configuration** web page opens for the selected port.
3. In the **Port Name** box, enter *Pesa*.
4. In the **Serial Configuration** section, use the **Mode** list to select the mode for your model of Pesa router:
 - **Cheetah** — RS-232
 - **Cougar** — RS-422
5. Use the **Baud** list to select baud rate for your model of Pesa router:
 - **Cheetah** — 38400
 - **Cougar** — 9600

6. Use the **Parity** list to select **none**.
7. Use the **Data Bits** list to select **8**.
8. Use the **Stop Bits** list to select the number of stop bits for your model of Pesa router:
 - **Cheetah** — 2
 - **Cougar** — 1
9. Use the **DTR** list to select **off**.
10. Use the **EOL** list to select **disabled**.
11. In the **TCP Connection Configuration** section, select the **Enable** check box.
12. Select the **Listen** check box.
13. In the **Port** box, enter the port number that the DeviceMaster uses to listen for communication from the Pesa.
14. Click **Save**.
The **Port Configuration Updated** web page opens.
15. Click **OK**.
The **Server Status** web page opens.
16. Click **Reboot**.
The DeviceMaster reboots with the new configuration.

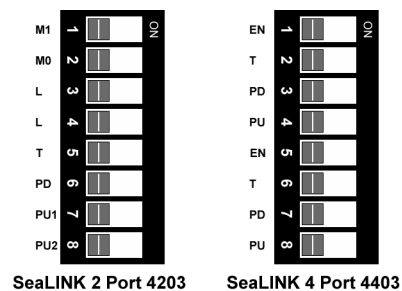
SeaLINK

The Cheetah and Cougar Pesa routers connect to a serial port on the SeaLINK. You must configure the connected SeaLINK serial port to communicate with your Pesa router.

The SeaLINK Ethernet to serial server is primarily configured using the web interface. Before using the web interface, the SeaLINK DB9 port that connects the Pesa router to your OverDrive system requires DIP Switch configuration.

Cheetah RS-232 Hardware Configuration

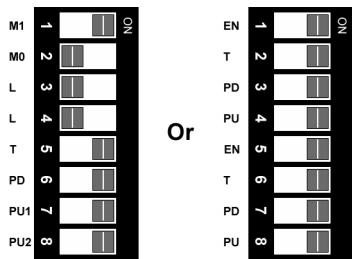
Inside the SeaLINK each DB9 serial port has a set of eight DIP Switches. To communicate with the Cheetah Pesa router the RS Mode of the DB 9 serial port that connects the Cheetah Pesa router must be set to RS-232. For your model of SeaLINK, set the DIP Switches associated with the connected port as follows:



SeaLINK 2 Port 4203 SeaLINK 4 Port 4403
DB9 DIP Switch Settings for RS-232

Cougar RS-422 Hardware Configuration

Inside the SeaLINK each DB9 serial port has a set of eight DIP Switches. To communicate with the Cougar Pesa router the RS Mode of the DB 9 serial port that connects the Cougar Pesa router must be set to RS-422. Set the DIP Switches associated with the connected port as follows:



DB9 DIP Switch Settings for RS-422

For More Information on...

- configuring the DIP Switches for SeaLINK DB9 ports, refer to the **Hardware Configuration** section in the *SeaLINK User Manual | Ethernet Serial Server Family*.

Web Interface Configuration

After setting the DIP Switches associated with the DB9 port on the SeaLINK used to connect the Pesa router, you can use the SeaLINK web interface to complete the SeaLINK configuration.

Use the following procedure to configure the SeaLINK for your Pesa router:

1. Use a web browser to open the **Summary** web page for your SeaLINK. The URL of the Summary web page is the IP address of the SeaLINK.
The **Summary** web page opens in the web browser.
2. Click the **Port Settings** tab.
The **Port Settings** web page opens.
3. In the **Port # Defaults Section** section, where # is the port number on the SeaLINK to which you connect your Pesa router, enter baud rate for your model of Pesa router in the **Baud Rate** box:
 - **Cheetah** — 38400
 - **Cougar** — 9600
4. Use the **Data Bits** list to select **8**.
5. Use the **Stop Bits** list to select the number of stop bits for your model of Pesa router:
 - **Cheetah** — 2
 - **Cougar** — 1

6. Use the **Parity** list to select **None**.
7. Use the **Flow Control** list to select **None**.
8. Use the **RS Mode** list to select **RS 422/488**.
9. Use the **RS Mode** list to select the mode for your model of Pesa router:
 - **Cheetah** — RS 232
 - **Cougar** — 422/488
10. Use the **Protocol** list to select **Ignored**.
11. Click **Submit**.
12. Click the **Administration** tab.
The **Administration** web page opens.
- ★ Values set for settings on the **Administration** web page are set for all SeaLINK serial ports.
13. In the **General Settings** section, enter a name to identify the SeaLINK in the **Name** box.
14. Use the **Connection Protocol** list to select **Raw Data**.
15. At the bottom of the **Administration** web page, select the **Reboot** check box.
16. Click **Submit**.
The SeaLINK reboots with the new configuration.

Remote Device Port Configuration Settings

Use the following procedure to configure a remote device for your Pesa router on the Caprica Server:

1. Use the current version of **DashBoard** software to connect to your **Caprica Server**.
2. In the **DashBoard Tree View**, double-click the **Port Configuration** node of your Caprica Server.
3. In the **Port Configuration Summary** table, double-click a **REMOTE#** port in the **Port** column.
4. In the **Configure REMOTE#** panel, click **Router**.
5. Click **Pesa**.
6. Click **Network Settings**.

7. Use the following settings to configure the **Network Settings** for your Pesa router:

- **Ethernet Role** — Client
- **Remote IP Address** — IP address of the Ethernet to serial server in your OverDrive system
- **Remote Port** — Port number on the Ethernet to serial server to which you connect your Pesa router.

When using a SeaLINK Ethernet to serial server in your OverDrive system the Remote Port number is associated with the SeaLINK serial port number to which you connected your Pesa router. The SeaLINK serial port to Remote Port associations are as follows:

SeaLINK Serial Port	Remote Port
1	4680
2	4681
3	4682
4	4683

- **Local IP Address** — 0.0.0.0
- **Local Port** — 0
- **Protocol** — TCP

8. Click **Apply Changes** to save the network settings.

Device Settings

Use the following procedure to configure the device settings for your Pesa router on the Caprica Server:

1. Click **Device Settings**.
2. Use the following settings to configure the **Device Settings** for your Pesa router:
 - **SRC Xpts** — enter or select **128** (default).
This setting defines the configuration of source cross points, with values between **0** to **4096**.
 - **Dest Xpts** — enter or select **128** (default).
This setting defines the configuration of destination cross points, with values between **0** to **4096**.
3. Click **Apply Changes** to save the device settings.
4. Click **Done** to close the Configure REMOTE# panel.

For More Information on...

- configuring remote devices for OverDrive systems that contain a Caprica Server, refer to the *Caprica User Guide*.

Cougar Serial Communication Settings

You must configure your Pesa Cougar router to enable CPU-Link Protocol control on the port connected to the Ethernet to serial server as follows:

1. Use the **Win3500Plus Control** software (valid as of version 1.2) to open the required Cougar Configuration.
2. Open the **Configuration\CPU Link...** menu.
3. Select the **RS-422** port to configure.
4. Configure the selected **RS-422** port for the CPU Link Protocol as follows:
 - **Baud** — 9600
 - **Parity** — NONE
 - **Data Bits** — 8
 - **Stop Bits** — 2
5. Save the configuration and then exit the dialog box.
6. Select **System\Download Configuration to Controller** to download the new configuration to the controller.

For More Information on...

- creating and downloading router configurations, refer to the PESA documentation for your Controller.

Compatibility

Video Server	Version
Pesa	

Automation	Version
OverDrive	15.0 or higher
Caprica Server	1.0a or higher

Port Expanders	Support
Control DeviceMaster	Yes
Sealevel SeaLINK	Yes

Contacting Technical Support

Technical Support is staffed by a team of experienced specialists ready to assist you with any question or technical issue.

Ross Video has technical support specialists strategically located around the globe to ensure a prompt response to technical inquiries. Our primary technical support center is located in Ottawa, Ontario, Canada. In addition, we have offices in The United Kingdom (London), Australia (Sydney), and Singapore with satellite locations in New York City, The Netherlands, and China. As we expand our presence globally, we are constantly evaluating other key locations to have a local technical support specialist in order to better service our customers.

North America

Our North America center located in Ottawa, Ontario, Canada and is open Monday to Friday 8:30 a.m. to 6:00 p.m. EST, with 24/7/365 on-call service after hours.

Our telephone number is: +1-613-686-1557

Toll free within North America: +1 833-859-0499

EMEA

Our EMEA center is open Monday to Friday 8:30 a.m. to 5:00 p.m. GMT. After hours support is provided by our North America location.

Our telephone number is: +44 (0)1189502446

International toll free: +800 3540 3545

If the local support specialist is not available, your call will be transferred automatically to our North America center.

Australia

Our Sydney, Australia office is located in Alexandria, NSW.

Our local support telephone number is: 1300 007 677

If the local support specialist is not available, your call will be transferred automatically to our North America center.

Online

E-mail: techsupport@rossvideo.com

Website: open a support request using the link <https://support.rossvideo.com/> to open a support request.

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