Astek offers a serial RS-232 UART level shifter. The A91V8-UART-01 is small board that can be easily mounted to add true RS-232 signaling to a serial UART interface. The A91V8-UART-01 is ideal for adding serial communication to the 12G SAS switch or a server. It comes with a 12" cable for easy installation on a full height or low profile (MD2 format) PCI brackets or a fan sled option that replaces a fan for the SAS 12Gb/s switch.

The serial RS-232 level shifter replaces the fan on the right side on the back of the switch. It can be connected to either the Smart or Debug port on the switch main board.

The Astek A91v8-UART-01 is a single RS-232 transceivers operating over a supply range of 1.8V to 5.5V. An integrated DC-to-DC converter generates power supplies for driving RS-232 levels. Driver outputs are protected from overload and can be shorted to ground or up to +- 15V without damage.

The Astek A91v8-UART-01 can be mounted three different ways. Either using a full height PCI bracket, a low profile PCI bracket or the fan sled for the Astek A54812-SW 12Gb/s SAS switch.

KEY APPLICATIONS
- RS-232 interface for the A54812-SW SAS Switch
- RS-232 interface for a Server
- General Purpose RS-232 Level Shifter

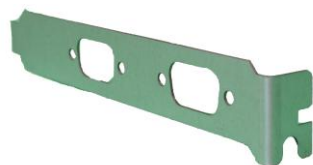**PRODUCT FEATURES**
- 1.8 volt to 5.5 volt Supply Voltages
- 300 bps to 115200 bps Operation
- True RS-232 Compliant Output Levels

A91V8-UART-01

A9UART-FAN-01

A9UART-12OBR-01

A9UART-80BR-01

Ordering Information

A91V8-UART-01	RS-232 UART Level Shifter board
A9UART-12OBR-01	Full Height PCI Bracket with two DB9 slots
A9UART-80BR-01	Low profile PCI Bracket with one DB9 slots
A9UART-FAN-01	12G/s switch replacement fan sled
A9UART-25CBL-01	25" Internal Extension cable

Technical Specifications

Compliance	RS-232 Male Pinout
Data Transfer	300 bps to 115200 bps
Supply Voltage	1.8 volts to 5.5 volts
Supply Power	2.3 mA typical
Connectors	DB9 RS232 Male 4-pin header
Form Factor	2.24" x 1.375"
Mounting Options	Full Height PCI Bracket Low profile PCI Bracket Fan Sled for A54812-SW 12Gb/s SAS switch
Agency Approval	RoHS Compliant (lead-free)

4-pin header:

1	2	3	4
Rx	Gnd	Tx	Vcc

Environments
   Temperature
   Relative Humidity
	Operating
	15° to 45° C
	5 to 90% non-condensing
	Airflow: 200 LFM
		Storage
		-10° to +85° C
		5 to 90% non-condensing

WARRANTY

Astek products are assembled and tested in world-class facilities to assure superior product reliability and performance. Astek's board products carry a one-year limited warranty.

About Astek Corporation

Astek manufactures storage products for embedded markets including medical, telecommunications and military applications. In addition to Host Bus Adapters, Astek also supplies Serial Attached SCSI solutions including edge and fan-out expanders.

For more information please visit the Astek web site at:

www.astekcorp.com

Astek Corporation
5055 Corporate Plaza Drive
Colorado Springs, Co 80919
Tel: 866-427-8351 (Toll Free)
Tel: 719-260-1625
Fax: 719-260-1668

RS-232-UART Level Shifter with cable