



## SPI-to-Serial, Parallel-to-Serial Interface Adapter

### Description:

**SOT-EVA-S1** is an adapter used for converting a computer's USB interface to the parallel interface, or to a serial parallel interface (SPI). This board is based on the Altera Cyclone III FPGA chip. There are three connectors on board, i.e., USB female connector to the host computer, micro-D connector to the device with SPI, D-Sub Micro-D connector to the device with parallel interface. The adapter is offered with specific GUIs to digitally control the ERAVANT low phase noise frequency synthesizer modules, e.g., [SOT-02215300200-SF-E6](#) with SPI, [SOT-01210313003-SF-B6](#), [SOT-02220313003-SF-B6](#) and [SOT-01320313001-SF-B6](#) with parallel interface.



### Features:

- SPI-to-Serial Interface Adapter
- Parallel-to-Serial Interface Adapter

### Applications:

- Correspondence with Eravant SOT Models

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Supply Voltage	+10.8 V <sub>DC</sub>	+12 V <sub>DC</sub>	+13.2 V <sub>DC</sub>
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+70 °C

### Mechanical Specifications:

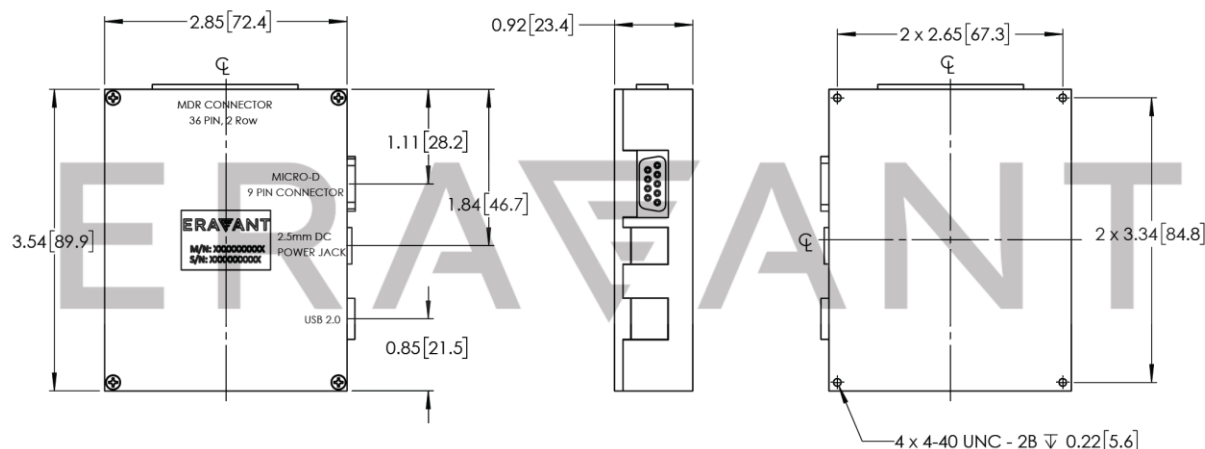
Parameter	Connector
Serial Port	USB 2.0 (Type A)
SPI Port	Micro-D Socket, 9 Positions, 2 Rows
Parallel Port	Mini Delta Ribbon (MDR) Socket, 36 Positions, 2 Rows
Body Material	Aluminum
Finish	Chem Film
Weight	3.2 Oz
Dimension	3.54" (L) X 2.85" (W) X 0.92" (H)
Outline	OT-BC-EVA





## SPI-to-Serial, Parallel-to-Serial Interface Adapter

**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches)



**Note:**

- The adapter is specific designed and manufactured for Eravant synthesizers with the following model numbers, **SOT-02215300200-SF-E6** with SPI, **SOT-01210313003-SF-B6**, **SOT-02220313003-SF-B6** and **SOT-01320313001-SF-B6** with parallel interface.
- The evaluation kit includes USB 2.0 cable and a power supply cable to offer a complete system integration.

Item	Model Number	Quantity
DC Plug to 4 mm Banana Plugs	SOT-CC-4BM5DM-S1	1
USB 2.0 (Type A) Cable	SOT-CC-UBUB-S1	1

- Other models may need different adapter boards.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

**Caution:**

- The device is static sensitive. Always follow ESD rules when working with the device.
- Wrong bias or reverse bias the synthesizer will damage the device.
- Exceeding absolute maximum ratings shown will damage the device.

