

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:

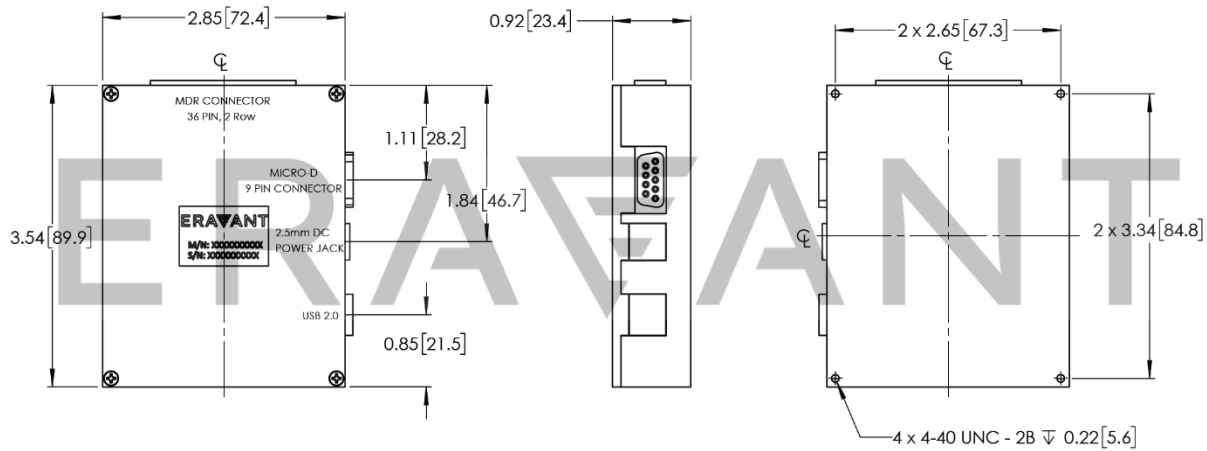
| Parameter | Minimum | Typical | Maximum |
|---------------------------|-----------------------|---------------------|-----------------------|
| Supply Voltage | +10.8 V _{DC} | +12 V _{DC} | +13.2 V _{DC} |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +70 °C |

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 |

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



Note:

- The adapter is specifically 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 to Type B) Cable | SOT-CC-UBUBB-S1 | 1 |

- Other models may need different adapter boards.
- Eravant 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.