How To Set Up an AlazarTech ATS®RM3801

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1.0. Introduction

The AlazarTech ATS®RM3801 is a compact single slot x8 Gen3 PCIe Expansion System that enables you to connect to a host computer. The AlazarTech ATS®RM3801 is connected via dual OCuLink cables to an AlazarTech ATS®P2C3x8 adapter installed in an x8 Gen3 PCIe expansion slot in the host computer's motherboard.

The system is turned on/off by the power switch on the host computer.

2.0. System Setup

- Remove the screws from the cover of the AlazarTech ATS®RM3801.

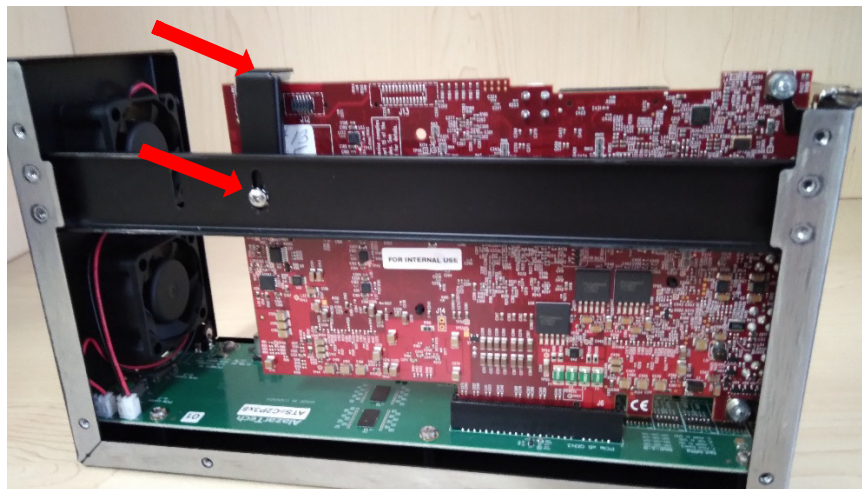**Figure 1.** AlazarTech ATS®RM3801 Enclosure

Figure 2. AlazarTech ATS®RM3801 Interior

- Remove the PCIe bracket screw in the enclosure and install your AlazarTech digitizer board in the AlazarTech ATS®RM3801.

Figure 3. AlazarTech ATS®RM3801 with AlazarTech ATS®9373 Digitizer Board Installed

- Adjust the L-shaped hold-down bracket to exert light pressure on the top edge of the digitizer board. Do not force it.

- Tighten the #4-40 screw to secure the L-shaped bracket.

Figure 4. AlazarTech ATS®RM3801 L-Shaped Hold-down Bracket Adjustment

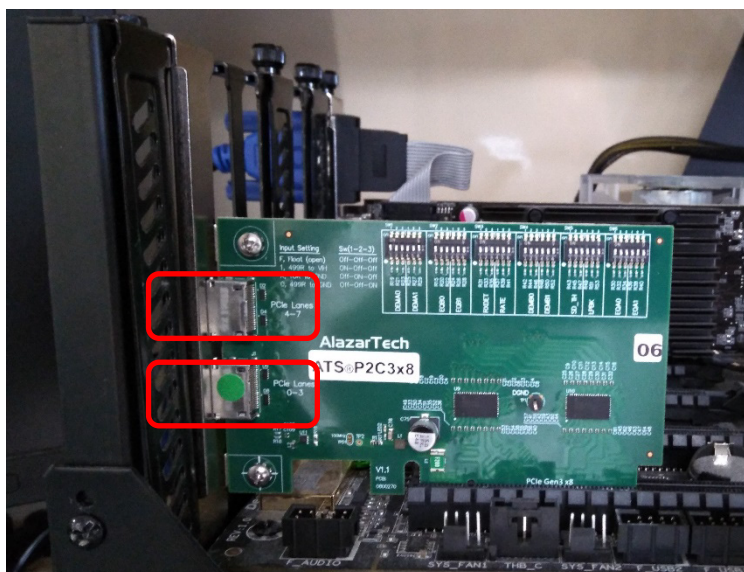- Install the AlazarTech ATS®P2C3x8 Host adapter in an x8 Gen3 PCIe expansion slot in the host computer.

Figure 5. ATS®P2C3x8 Host Adapter

- Connect the dual OCuLink cables from the AlazarTech ATS®P2C3x8 host adapter to the AlazarTech ATS®RM3801.

  Note: The connection order is important!
  See Figure 6 below for further explanation.

Figure 6. ATS®RM3801 Rear View

- Using one of the OCuLink cables, connect PCIe Lanes 0-3 on the AlazarTech ATS®P2C3x8 host adapter to PCIe Lanes 0-3 on the AlazarTech ATS®RM3801. See Figure 5 and Figure 6 for lane identification.

- Using the other OCuLink cable, connect PCIe Lanes 4-7 on the AlazarTech ATS®P2C3x8 host adapter to PCIe Lanes 4-7 on the AlazarTech ATS®RM3801. See Figure 5 and Figure 6 for lane identification.

- Connect the AC power adapter (24VDC) to the power jack on the rear panel of the AlazarTech ATS®RM3801.
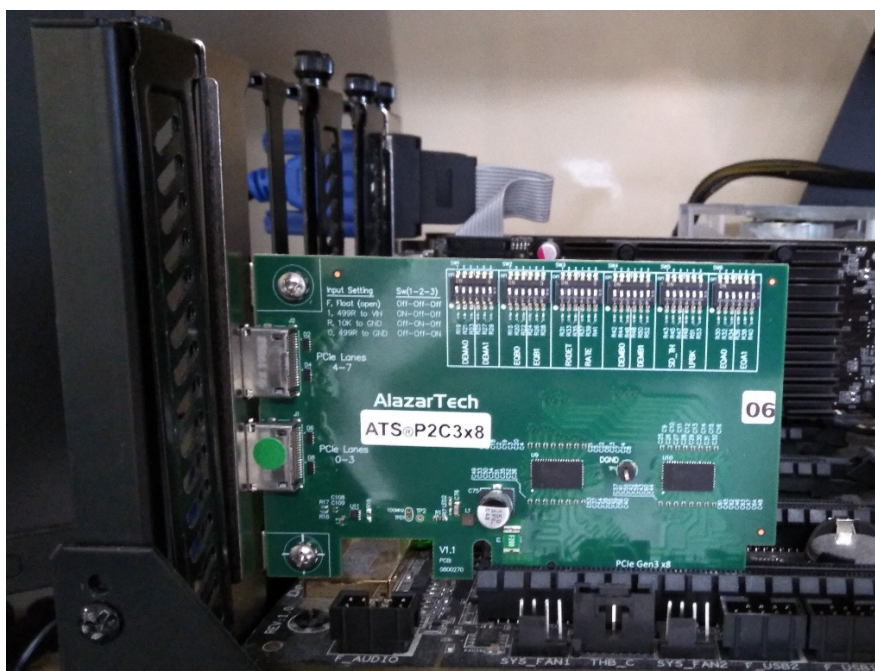

Figure 7. AC Power Adapter

- Switch-on the host computer. The ATS®RM3801 will power up automatically.

Appendix
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System Components

Figure A. ATSP2C3x8 Host Adapter

Figure B. ATSRM3801 Enclosure with Digitizer Installed (Digitizer not included)

Figure C. OCuLink Cables

Figure D. AC Power Adapter(24VDC) and Power Cord