

# Quick Start / Arrival Checkout Manual

Model RI-1U-GIGEXD-4C

# Safety Precautions First

## WARNING

### **Never use the chassis if it is damaged.**

Abnormal operations such as smoke, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock. In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet.

- The power outlet should be close to the unit and easily accessible.

### **Do not insert liquids or foreign objects.**

Penetration of liquids or foreign objects could result in fire or electrical shock.

If liquids or foreign object should enter the unit, immediately turn off the power switch, disconnect the power plug from the power outlet and log the unit out for repair.

- Do not place the chassis near water
- Do not expose the chassis to rain or moisture. Do not place the unit outdoors.
- To avoid penetration of foreign objects, do not put the projector into a case together with any thing except the accessories of the projector, signal cables and connectors.

### **Never disassemble or modify.**

The unit contains high voltage components. Modification and/or disassembly of the unit or accessories could result in fire or electrical shock.

- Never open the unit without a qualified maintenance person.

### **Do not place the unit on an unstable surface.**

If the unit should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

## WARNING

### **Be cautious of the power cord connection.**

Incorrect connection of the power cord could result in fire or electrical shock.

- Do not touch the power cord with a wet hand.
- Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.
- Insert the power plug into a power outlet firmly. Avoid using a loose, unsound outlet or contact failure.

### **Be sure to connect with ground wire.**

Connect the ground terminal of AC inlet of this unit with the ground terminal provided at the building using the correct power cord; otherwise, fire or electric shock can result.

### **Remove the power cord for complete separation.**

- For safety purposes, disconnect the power cord if the unit is not to be used for prolonged periods of time.

# Model RI-1U-GIGEXD-4C

**Self-Contained, Stand-Alone, 4 Channel  
1U Network Device**

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# Arrival Checkout Procedure For RI-1U-GIGEXD-4C

## 1. Package Contents

- rumeL, Inc 1U Height, 4 Channel Rack Mount RI-1U-GIGEXD-4C Chassis
- 1 Rack mount slide kit
- 1 Arrival Checkout Procedure Guide
- 2 115VAC ICE320 AC Power Cords



Figure 1 - View Inside box of shipped unit

## 2. Physical Inspection (Follow Proper ESD Procedures)

Before power is applied, check the external box and the physical unit for external damage. When removing the unit, place it on a proper electronically safe bench/matt for initial power-on. Proper ESD procedures should be taken to reduce the chance of an ESD. ESD stands for Electrostatic Discharge and is an unwanted discharge of static electricity when working with electronic hardware. An ESD could permanently damage electronic hardware if the proper preventative steps aren't taken.

## 3. Front Panel Network Device Small Form-Facto Pluggable (SFP) Inspection

Once inspected externally, verify that the front panel SFP connectors are properly seated. The SFP network connectors are intentionally recessed to avoid damage. The SFP modules should be seated all-the-way into the slot. A small “u-shaped” wire coated in plastic should be in the upper position as shown in figure 2 below. Do not remove this plastic. To remove the SFP module, this small wire should be in the lower position. The SFP module can be pulled out when the wire is in the lower position. The module may need to be slightly moved from side-to-side to remove it. Use proper ESD procedures if this is necessary.



Figure 2 - Front Panel

#### 4. Applying power to the unit

With both AC power cords plugged in, apply power to the unit using the AC switch in the front of the unit shown in figure 3 below. A green LED just above the power switch will light.



Figure 3 - Front Panel

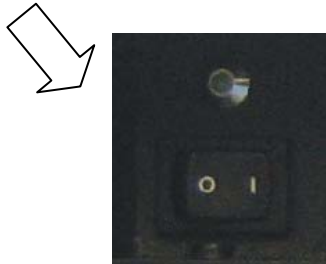


Figure 3 [Inset] - Front Panel  
Power switch with Green LED above switch

#### 5. Power Requirements/Consumption

Power consumed by the unit is approximately 1.3-1.5 amps of 115 volts AC or approximately 160Watts. This power consumption is the total measured power from both redundant supplies added together.

<b>AC Input:</b>	<b>100-240V 60-50Hz 8-5A</b>		
<b>DC Output:</b>	<b>400Watts (MAX)</b>		
<b>+5V</b>	<b>25A</b>		
<b>+12V</b>	<b>28A</b>		
<b>+3.3V</b>	<b>0-20A</b>		
<b>-5V</b>	<b>0-0.5A</b>		
<b>-12V</b>	<b>0-0.8A</b>		
<b>+5VSB</b>	<b>0-2A</b>		
<b>+5V and +3.3V</b>		<b>Total Max:</b>	<b>175W</b>
<b>+5V, +3.3V, and +12V</b>		<b>Total Max:</b>	<b>384W</b>

**Approximate power use is 1.3-1.5 Amps**

#### 6. Chassis Weight

Weight of the unit is approximately 35 Pounds including packing.

## 7. Cooling and Air Flow through unit

Air intake grids are present on the front of the unit. The air flow direction is front the front the back of the unit. Do not block front air vents. There are additional air intake vent holes on the side/bottom corners of the chassis. These are pre-cautionary holes to ensure air flow at all times.

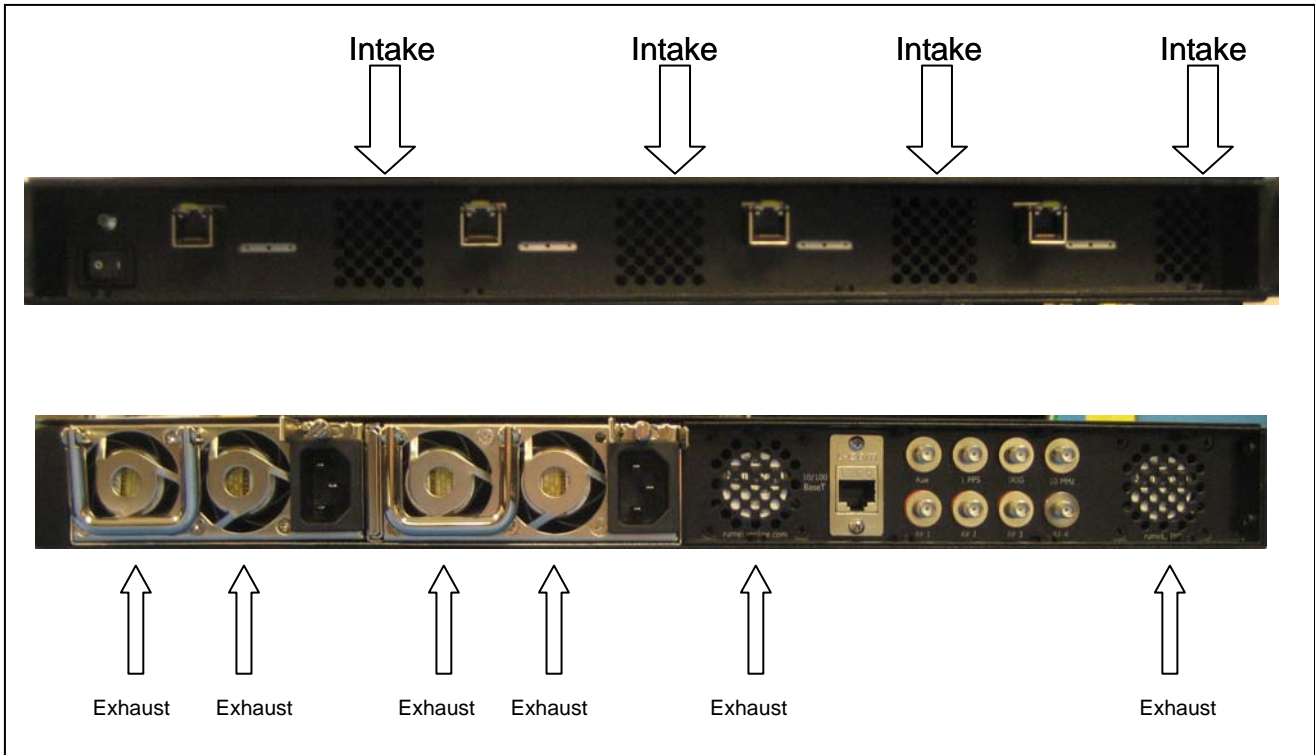


Figure 4 – Air flow

Fans that are present on the rear of the unit provide complete air flow. Do not block fans from the unit. There are two fans on each redundant power supply module and two additional fans on either side of the rear interface panel. Additionally, there are three high speed fans in the center of the chassis that assist in air extraction.

## 8. LED Lights on a successfully powered unit

There are numerous LED lights that indicate proper operation. With power applied, check that the two rear power supplies module LEDs are on. If either redundant power supply module fails to power-on then an alarm will sound. The failed redundant power supply module will not have its LED lighted.



Figure 5 – Back Panel

LED Lights on redundant power supply modules

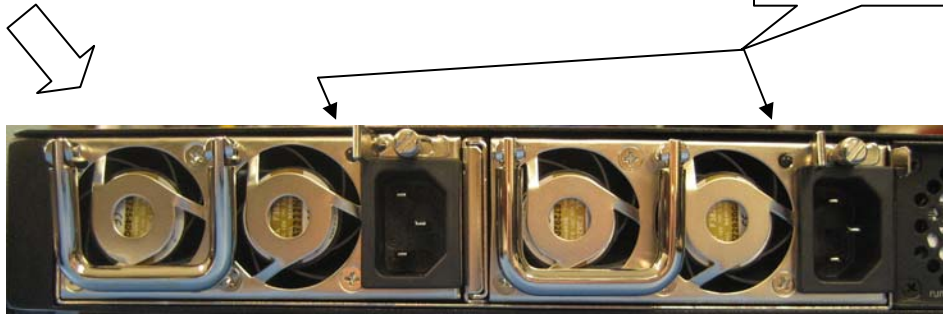


Figure 5 [Inset] - BackPanel

Power LED	Front Panel	1 each above the power switch
Power LED	Rear Panel	2 each on each redundant power supply module
Power LED	Front Panel	4 each on each of 4 Channels (Power Light is RED) (Figure 6)



Figure 6 – Channel Power LED Locations pointed out with arrows above.

Channel Power LEDs - The four left most LED lights on each channel should be RED indicating power is supplied to each channel. The lights remain RED while the channels are powered.

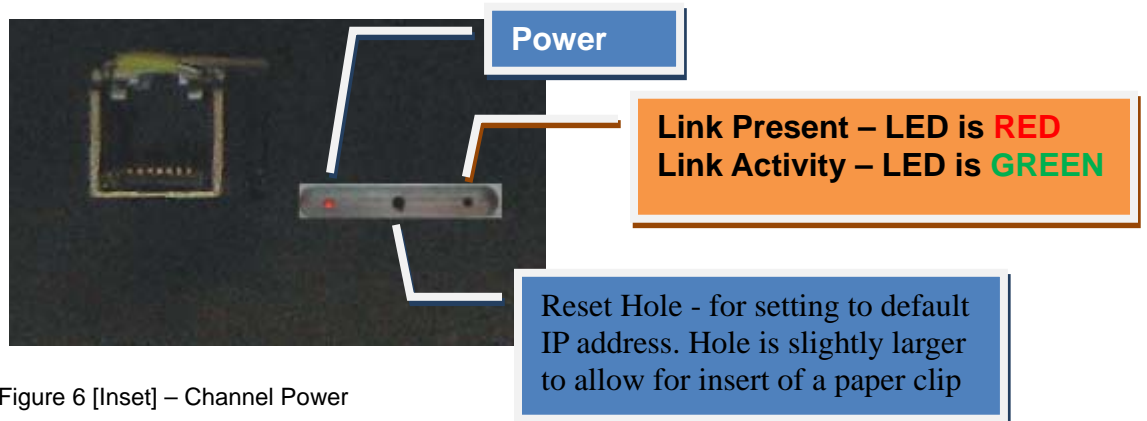


Figure 6 [Inset] – Channel Power

## 9. GIGEXDr2 network SFP/RJ45 connection and accessibility

To test the activity and accessibility of the network ports, from another computer or laptop, plug in an RJ45 network cable to the first GIGEXD (Channel 1) network connection indicated by the arrow in figure .

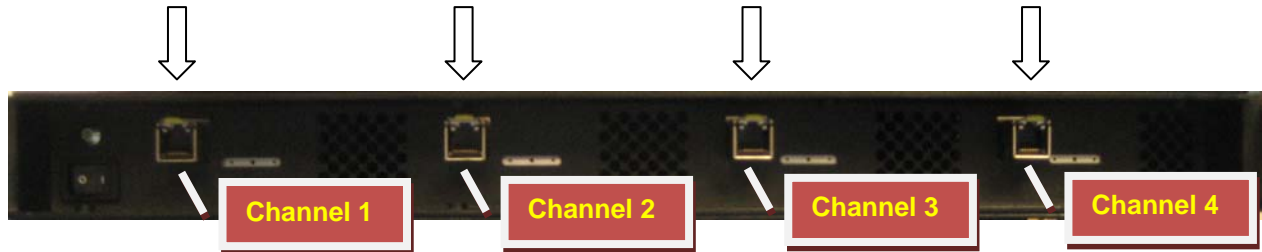


Figure 7 – Channels identifications are clearly marked on the front panel

When the cable is plugged between the External Computer to the GIGEXD a **RED** "LINK" light on the GIGEXD connection should turn on. If the RED Link light does light up then, power down unit, reset the GIGEXD network SFP module (refer to number 3 above), power up unit, and try again. Repeat this for all channels.

Channel Power LEDs - The four left most LED lights on each channel should be RED indicating power is supplied to each channel. The lights remain RED while the channels are powered.

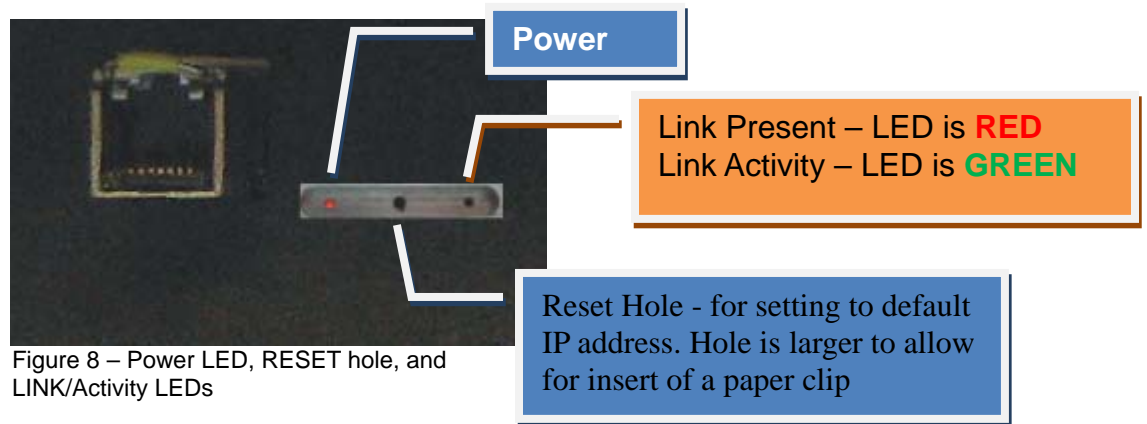


Figure 8 – Power LED, RESET hole, and LINK/Activity LEDs

## 10. Individual Channel IP Addresses

When the chassis arrives, additional documentation may provide details of specific IP addresses of the four GIGEXD channels. If not, the default IP address is for all 4 channels is 192.9.200.105 From the computer, try to ping each of the 4 GIGEXD connections.

Use the ping command: `ping 192.9.200.105 <return>`

The tester should get back ping information that the unit is working. If not re-check the IP address and try again. Repeat this for all channels.

