CONGRATULATIONS

You have just acquired one of the most advanced and versatile components for the amplification of audio ever to have been developed.

IMPORTANT

Save all packaging in a dry place away from fire hazards. Your Enterprise is a precision electronic instrument and should be properly packaged any time shipment is made. In the unlikely event that you have to return your Enterprise to the factory or dealer for service or updating, the original packaging will best protect the unit from shipping damage.

In order to achieve the fullest flexibility and enjoyment from your Enterprise, we at Theta recommend that you read this manual in full before connecting the unit to your audio system.

Note: It is imperative that the Enterprise be operated in a well-ventilated environment and that the immediate external temperature be maintained as specified. External cooling fans may be required in some cases. Do not stack any equipment directly above, below or to the immediate sides of the Enterprise to protect it from overheating, as well as to protect the continued functionality of equipment near and around it.

Warning: The Enterprise is a balanced bridge amplifier, thus the negative speaker terminal is NOT a ground, and cannot be connected to a system ground or a loudspeaker system with a common ground. Consult your speaker manufacturer to ensure that any speaker in your system that will be connected to the Enterprise does NOT have internal circuitry with a common ground.

WARNING: When connecting the speaker wire to the Reich output connector, using the hex tool provided – DO NOT OVER TIGHTEN. There is a lot of surface area in the Reich connector to create a complete connection with a minimum of torque applied. OVER TIGHTENING WILL ULTIMATELY BREAK THE REICH CONNECTOR, WHICH WILL NOT BE COVERED UNDER WARRANTY. In addition, if the hex stud is removed from the Reich connector, make certain that it is not cross threaded before fully reinserting it as this will destroy the threads. CROSS THREADING THE HEX STUD WILL NOT BE COVERED UNDER WARRANTY.

WARNING

United States law prohibits disposition of these commodities to Libya, Laos, North Korea, Cambodia or Cuba unless otherwise authorized by the United States.

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Written and Illustrated by Glenn Buckley.

This manual is also available for download as a PDF file at Theta Digital’s website. http://www.thetadigital.com. Check out the library.

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The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of significant magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**WARNING**

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,**
**DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE**

**CAUTION:** TO PREVENT ELECTRIC SHOCK, DO NOT USE THE AC (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Extension cords are not recommended for use with this product.
Enterprise Identification Record

This information is for your records and for future identification of the Enterprise. Please take a moment to fill out all pertinent data now, and as upgrades and/or options are installed. **Whenever upgrades, inquiries and/or changes are requested, the serial number will be required.**

<table>
<thead>
<tr>
<th>SERIAL NUMBER</th>
<th>________________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE PURCHASED</td>
<td>________________________________</td>
</tr>
<tr>
<td>DEALER’S NAME</td>
<td>________________________________</td>
</tr>
<tr>
<td>DEALER’S ADDRESS/PHONE</td>
<td>________________________________</td>
</tr>
<tr>
<td>INSTALLED CARDS/OPTIONS</td>
<td>________________________________</td>
</tr>
<tr>
<td></td>
<td>________________________________</td>
</tr>
<tr>
<td></td>
<td>________________________________</td>
</tr>
<tr>
<td></td>
<td>________________________________</td>
</tr>
</tbody>
</table>
SAFETY PRECAUTIONS

Please carefully read each item of the operating instructions and safety precautions before installing and using this product. Use extra care to follow the warnings written on the product itself and/or in the operating instructions. Keep the operating instructions and safety precautions for future reference.

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE ANY OF THE COVER PANELS.

NO USER-SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT ALLOW LIQUIDS TO SPILL OR OBJECTS TO FALL INTO ANY OPENINGS OF THE PRODUCT.

THIS UNIT IS SUPPLIED WITH A 3 PIN GROUNDED AC PLUG. ALWAYS INSERT THE AC PLUG INTO A GROUNDED OUTLET. DO NOT REMOVE THE GROUND PIN OR DISABLE THE GROUND FOR ANY PURPOSE.

BEFORE MAKING ANY CONNECTIONS TO THE ENTERPRISE, FIRST TURN OFF THE POWER AND THEN DISCONNECT THE AC POWER CORD.

WHEN INSTALLING THE ENTERPRISE IN YOUR SYSTEM, MAKE CERTAIN TO ALLOW A MINIMUM OF 6 INCHES OF VENTILATION ON TOP AND ON EACH SIDE OF THE UNIT. IMPROPER VENTILATION OF THE UNIT MAY CAUSE OVERHEATING, WHICH MAY DAMAGE THE UNIT AND CAUSE A FIRE. PLACE THE UNIT ON A SOLID SURFACE ONLY. I.E. NOT ON CARPET, ETC.

DO NOT PLACE THE ENTERPRISE NEAR HEAT SOURCES SUCH AS DIRECT SUNLIGHT, STOVES, HEAT REGISTERS, RADIATORS OR OTHER HEAT PRODUCING EQUIPMENT.

TO PREVENT DAMAGE TO THE ANALOG OUTPUT CIRCUITRY, BE CERTAIN NOT TO SHORT THE OUTPUT SIGNAL TO GROUND. ENSURE THAT YOUR AUDIO OUTPUT CABLES DO NOT HAVE ANY INTERNAL SHORTS BEFORE CONNECTING THEM TO THE ENTERPRISE.

IF REPLACEMENT OF THE AC LINE FUSE AND/OR ANY INTERNAL/EXTERNAL FUSE BECOMES NECESSARY, REPLACE ONLY WITH SAME VALUE AND TYPE OF FUSE. NEVER BYPASS THE FUSE.

IF THE AC CORD BECOMES DAMAGED, DO NOT USE IT. IMMEDIATELY REPLACE IT WITH A NEW ONE OF THE SAME OR BETTER RATING.

IT IS IMPERATIVE THAT THE ENTERPRISE BE OPERATED IN A WELL VENTILATED ENVIRONMENT AND THE IMMEDIATE EXTERNAL TEMPERATURE BE MAINTAINED AS SPECIFIED. EXTERNAL COOLING FANS MAY BE REQUIRED IN SOME CASES. DO NOT STACK ANY EQUIPMENT DIRECTLY ABOVE, BELOW OR TO THE IMMEDIATE SIDES OF THE ENTERPRISE AS TO PROTECT IT FROM OVERHEATING, AS WELL AS THE CONTINUED FUNCTIONALITY OF ANY EQUIPMENT NEAR AND AROUND IT.

THE ENTERPRISE IS A BALANCED BRIDGE AMPLIFIER, THUS THE NEGATIVE SPEAKER TERMINAL IS NOT A GROUND, AND CANNOT BE CONNECTED TO A SYSTEM GROUND OR LOUDSPEAKER SYSTEM WITH A COMMON GROUND. CONSULT YOUR SPEAKER MANUFACTURER TO ENSURE THAT ANY SPEAKER IN YOUR SYSTEM THAT WILL BE CONNECTED TO THE ENTERPRISE DOES NOT HAVE INTERNAL CIRCUITRY WITH A COMMON GROUND.

AFTER MARKET and THIRD PARTY MODIFICATIONS

Please note that any after market and/or third party modifications will void the warranty. In the case of changing the feet on a unit, in order to prevent any damage (which will also not be covered under warranty), please verify that the screws being used to secure non-Theta feet do not screw any deeper into the chassis than the original ones. The original screw is 1/4-20 by 1/2 and goes into the chassis 1/8 inch.
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INTRODUCTION

Getting to know your Enterprise

This Enterprise has been put through a rigorous and unique testing procedure that ensures that it will last for many years with minimal service requirements. This procedure includes the following:

- All assembled circuit boards are given a thorough visual inspection and are then tested in a bench-reference Enterprise.
- The tested, assembled circuit boards are then installed in a new Enterprise and the whole unit is tested for every function and parameter.
- The unit is put on a burn-in torture rack to test for any possible component failures.
- The Enterprise then undergoes a critical listening and functional test.
- The unit has all remaining chassis components installed and then undergoes a complete visual inspection, which assures that all Enterprises meet visual specifications.

The front panel of the Enterprise is manufactured in two versions – a left and a right, as shown in figure 3. A left version has the tower on the right side of the faceplate and is intended to be placed on the left side of the room. Visa versa for the right.

Burn-In/Break-In Time

This unit has a break in period of about 1 week during which continuous improvement in sound quality will be observed. It is recommended that music be played continuously through the unit during this time to expedite the break in period.

Reference Manual Conventions

For clarity purposes, references to buttons and LED’s will be shown in bold capital letters.
IMPORTANT NOTICE

I. It is imperative that the Enterprise be connected to a ground via its three wire AC power cord. It is important that the AC power outlet, which the Enterprise is plugged into, is actually grounded. Failure to do so will severely compromise the performance, reliability and safety of use of the Enterprise.

II. Ventilation is an important issue when placing the Enterprise in a system. Make certain that the Enterprise is placed in a well-ventilated area or rack unit. Heat must be dissipated and cool air must be allowed to enter the Enterprise.

III. Please take note that some powerline conditioners defeat the AC power ground on their outlets. If the intention is to plug the Enterprise into a line conditioner, check with your dealer to make certain that the particular conditioner that is intended for use DOES NOT DEFEAT THE AC GROUND on its AC outlets. Only the highest powered line conditioners should be considered for use with the Enterprise. Otherwise, the amplifier’s power output may be compromised.

IV. DO NOT remove any cover panels from the Enterprise, as there are no user serviceable components inside. Refer servicing and updating to qualified service personnel only.

V. Endcaps (NOT shorting plugs) on the unused RCA input will improve the sound quality and may reduce the susceptibility to RF induced anomalies.

VI. It is imperative that the Enterprise be operated in a well ventilated environment and the immediate external temperature be maintained as specified in Appendix D of this manual. External cooling fans may be required in some cases. Do not stack any equipment directly above, below or to the sides of the Enterprise as to protect it from overheating, as well as the continued functionality of any equipment near and around it.

VII. Each channel is a balanced bridge amplifier, thus the negative speaker terminal is NOT a ground, and cannot be connected to a ground or a loudspeaker system with a common ground. Consult your speaker manufacturer to ensure that any speaker in your system that will be connected to the Enterprise does NOT have internal circuitry with a common ground.

VIII. WARNING: When connecting the speaker wire to the Reich (Derlin) output connector, using the hex tool provided – DO NOT OVER TIGHTEN. There is a lot of surface area in the Reich connector to create a complete connection with a slightly firm torque applied. OVER TIGHTENING WILL ULTIMATELY BREAK THE REICH CONNECTOR, WHICH WILL NOT BE COVERED UNDER WARRANTY. In addition, if the hex stud is removed from the Reich connector, make certain that it is not cross threaded before fully reinserting it as this will destroy the threads. CROSS THREADING THE HEX STUD WILL NOT BE COVERED UNDER WARRANTY.
Figure 1 - Block Diagram

Enterprise Block Diagram

Balanced + or Single-Ended
Input

Front Panel Control

Control Circuitry

Regulated Power Supply

Hi-Current Power Supply

Driver Stage

Output Stage

Driver Stage

Output Stage
1. **THERMAL LED.** Illuminates when the Enterprise’s amplifier module temperature rises above the maximum operating temperature and puts the Enterprise into standby.

2. **STANDBY LED.** Illuminates red when the power amplifier is in **STANDBY**, green when the amplifier is active.

3. **STANDBY button.** After the rear panel **MAIN POWER** switch is turned on press the front panel Theta logo button to exit the standby mode. The Enterprise will come out of standby.
Figure 3 - Front Panel of a LEFT and RIGHT Enterprise
1. **BINDING POST (Cardas type)**. Connect plus and minus speaker wires for one speaker to appropriately marked terminals of this post. This is the single default output connector. It can be upgraded to a Reich type.

2. Optional second **BINDING POST**. This is used when bi-wiring a speaker. This can be either an additional Cardas type or a Reich type. (Reich type shown).

3. ++ (plus) **Rail Fuse**. Replace only with same type and rating.

4. **FUSE RAIL –** LED. When this LED is illuminated, the fuse on the negative rail of the channel is blown.

5. **FUSE RAIL +** LED. When this LED is illuminated, the fuse on the positive rail of the channel is blown.

6. **THERMAL LED**. Illuminates when the amplifier rises above the maximum operating temperature. The Enterprise should be powered off and cooled if this LED is lit.

7. **SINGLE-ENDED** input jack.

8. **BALANCED** input jack.

9. -- (minus) **Rail Fuse**. Replace only with same type and rating.

10. **RJ45 RS232 connector**. Used for connecting an external controller to the Enterprise to control and monitor its functions.


12. **STANDBY REMOTE TRIGGER jack**. When the rear panel **STANDBY TRIGGER** jack receives a 5-12 VDC pulse the Enterprise will change its mode from either standby to operate, or operate to standby, depending on its current state.

13. **MAIN POWER switch**. Master power switch. Disconnects AC to all circuits. It is recommended that this be left ON at all times during regular use with the exception of whenever cables are connected/disconnected or when the unit is not going to be used for an extended period of time.

14. Main Power **FUSE**. If necessary, replace with same type and rating only.

15. Amplifier **AC POWER INPUT**.
OPERATION

Before turning on the Enterprise, ensure that all precautions and warnings have been carefully reviewed and adhered to. Damage to the Enterprise caused by improper operation, wiring and/or ventilation will not be covered under warranty and Theta will not be liable for any consequential damage or loss.

Connecting the Enterprise

With the Enterprises' rear panel main power switch turned off, connect the signal outputs of the preamp/processor to either the single-ended or balanced input of the Enterprise. Connect the output to the input of the speaker that is intended to be driven. Please refer to figure 5.

If the Enterprise has a second binding post output connector, this is to be connected to the second speaker input terminal.

Please Note: The Enterprise is a balanced bridge amplifier, thus the negative speaker terminal is NOT a ground, and cannot be connected to a ground or a loudspeaker system with a common ground. Consult your speaker manufacturer to ensure that any speaker in your system that will be connected to the Enterprise does NOT have internal circuitry with a common ground.

Connect a 12V pulse trigger source to the STANDBY trigger input of the Enterprise, if it is desired to be taken in and out of standby via another device.

If the Enterprise's functionality is to be controlled from a remote controller via RS232, connect the RS232 cable between the Enterprise and the controller, using either the DB9 or RJ45 RS232 connector on the Enterprise.

Setup and Operation

Turn the output volume of the preamp/processor, or other source device, down all of the way.

Turn on the MAIN POWER switch, located on the rear panel.

When first turning on the rear panel power switch, the red STANDBY LED on the front panel will illuminate, indicating that the Enterprise is in standby mode. When in standby, the signal is muted and the output bias of the Enterprise is reduced to approximately 10 percent.

Press the round standby button on the front panel to take the Enterprise out of standby. The STANDBY LED will turn from red to green.

Slowly bring the output volume of the preamp/processor up to an audible level.

Remote Triggers

When the rear panel STANDBY trigger jack receives a 5-12 VDC pulse, the Enterprise will change its state from either standby to operate, or operate to standby, depending on what the current state is.

RS232

RS232 is another option in the Enterprise. It can be installed at any time either at the factory or by an authorized Theta dealer. All functions of the Enterprise can be controlled and monitored via RS232, using either the RJ45 or DB9 connector. As long as the rear panel MAIN POWER switch is turned on, the RS232 circuitry is always active, thus allowing the Enterprise to be taken out of STANDBY via RS232.
Appendix A  Troubleshooting Guide

If the Enterprise should function abnormally during operation, please review the items in the following checklist. Please be sure to thoroughly check all other connected components such as speakers and preamplifiers, as well as cables.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power or front panel lights and no sound.</td>
<td>The power cable is not inserted 100% into AC input connector.</td>
<td>Ensure that the AC cord is inserted all the way into the Enterprise and that the wall outlet is active.</td>
</tr>
<tr>
<td></td>
<td>The rear panel fuses is open.</td>
<td>Replace with same type and rating ONLY.</td>
</tr>
<tr>
<td></td>
<td>Circuit breaker is open (AC outlet).</td>
<td>Check the AC outlet circuit breaker and reset, if necessary, or contact your dealer.</td>
</tr>
<tr>
<td>No audio output.</td>
<td>Overheating</td>
<td>If the front and/or rear panel THERMAL LED is illuminated, shut down the Enterprise until it cools. An external fan may be necessary.</td>
</tr>
<tr>
<td></td>
<td>Plus or minus fuse is open.</td>
<td>Check the rear panel fuse indicator LEDs. If one is on, a fuse is open.</td>
</tr>
<tr>
<td>Hot/Warm</td>
<td>Normal operation</td>
<td></td>
</tr>
</tbody>
</table>
Appendix B  Wiring Diagram

This section provides an example illustration of an input and output wiring scheme. Before making any connections, please turn off ALL audio and video devices. Unplug those that do not have a main power switch. It is recommended that all cables, including speaker cables be kept as short as possible for best sound quality.

![Wiring Diagram]

Figure 5 - Examples of Typical Input and Output Connections

---------- = optional connection.

**WARNING:** The Enterprise is a balanced bridge amplifier, thus the negative speaker terminal is **NOT** a ground and cannot be connected to a ground or a loudspeaker system with a common ground. Consult your speaker manufacturer to ensure that any speaker in your system that will be connected to the Enterprise does **NOT** have internal circuitry with a common ground. Damage, not covered under warranty, will occur if the negative terminal is connected to ground or to a terminal of another amplifier.

**WARNING:**
When connecting the speaker wire to the Reich (Delrin) output connector, using the hex tool provided – **DO NOT OVER TIGHTEN**. There is a lot of surface area in the Reich connector to create a complete connection with a minimum of torque applied. **OVER TIGHTENING WILL ULTIMATELY BREAK THE REICH CONNECTOR, WHICH WILL NOT BE COVERED UNDER WARRANTY.** In addition, if the hex stud is removed from the Reich connector, make certain that it is not cross threaded before fully reinserting it as this will destroy the threads. **CROSS THREADING THE HEX STUD WILL NOT BE COVERED UNDER WARRANTY.**
Appendix C RS232 Protocol

RS232 settings are internally definable via jumper blocks, to accommodate interfacing with a wide range of control products.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baud rate</td>
<td>9600 or 19200</td>
</tr>
<tr>
<td>Echo status</td>
<td>AUTO or REQUEST</td>
</tr>
<tr>
<td>Select C</td>
<td>0 or 1</td>
</tr>
<tr>
<td>Select D</td>
<td>0 or 1</td>
</tr>
<tr>
<td>Select E</td>
<td>0 or 1</td>
</tr>
</tbody>
</table>

Baud rate: Maximum number of bits per second. The duration of a single bit is equal to 1 / baud rate.

Echo status: Specifies whether the STATUS of each parameter shown in the protocol will automatically (AUTO) be echoed back to the controller when there is any change, or whether the user must manually request (REQ) the status information be sent to the controller.

Select C, D & E: The three SELECT jumpers are used to set the unit ID. There are possible 8 configurations, listed in the chart on page 13.

All commands will follow the format:

<Header><Command Identifier><Argument 1><Argument 2><Argument 3>

where:

<Header> = <FEh><D0h> **
<Command identifier> = <byte>
<Argument x> = <byte>

Each command will be able to access the system configuration directly, eliminating the need to press any button on the Enterprise’s front panel.

Example:

1) To put the [Front Left] Enterprise into standby: Send FE, D0h **, 01, 00, 00, 00 (all values in Hex).
   Where FE and D0h ** are the header, 01 = standby command, 00 = put into standby, 00 = filler and 00 = filler (4 characters required).

<table>
<thead>
<tr>
<th>HEADER</th>
<th>COMMAND</th>
<th>ARG 1</th>
<th>ARG 2</th>
<th>ARG 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEX</td>
<td>FE D0</td>
<td>01</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>DEXIMAL</td>
<td>254 208</td>
<td>01</td>
<td>00</td>
<td>00</td>
</tr>
</tbody>
</table>

** In this example the header ID is set to the Front Left Enterprise. Replace this data to match the ID of the Enterprise to be controlled, if different.
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
<th>Argument 1</th>
<th>Argument 1 Desc</th>
<th>Argument 2</th>
<th>Argument 2 Desc</th>
<th>Argument 3</th>
<th>Argument 3 Desc</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Standby</td>
<td>Ø</td>
<td>Through standby</td>
<td>1</td>
<td>Take out of standby</td>
<td>0</td>
<td>Toggle Standby</td>
</tr>
<tr>
<td>2</td>
<td>Status</td>
<td>0</td>
<td>Return amplifier status</td>
<td>0</td>
<td>Toggles Amp in/out of standby</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Toggle Standby</td>
<td>Ø</td>
<td>Through standby</td>
<td>0</td>
<td>Toggles Amp in/out of standby</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The RS232 can be set using a hardware jumper to automatically send changes to the RS232 port. There can be multiple Enterprise's in a system. Each can have a different device address, selectable on the RS232 board and defined in Status byte #2, below.

<table>
<thead>
<tr>
<th>Status Byte #</th>
<th>Bit Value Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ø Standby</td>
<td>Ø = In, 1 = Out</td>
</tr>
<tr>
<td>1</td>
<td>Temperature</td>
<td>Ø = OK, 1 = Over temperature</td>
</tr>
<tr>
<td>2</td>
<td>Fuse +</td>
<td>Ø = Good, 1 = Blown</td>
</tr>
<tr>
<td>3</td>
<td>Fuse -</td>
<td>Ø = Good, 1 = Blown</td>
</tr>
</tbody>
</table>

2 Device Address Lower 3 bits Ø = Front Left, 1 = Front right, 2 = Amp #3, 3 = Amp #4, 4 = Amp #5, 5 = Amp #6, 6 = Amp #7, 7 = Amp #8
RS232 Hardware Connections

RS232 Hardware Connections

**Figure 6 – Enterprise RS232 Jack Pinout**

<table>
<thead>
<tr>
<th>Pin</th>
<th>DB9</th>
<th>RJ45</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - DCD</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>2 - Enterprise sends on this pin</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3 - Enterprise receives on this pin</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>4 - DTR</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5 - GND</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>6 - DSR</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7 - RTS</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>8 - CTS</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>9 - Ring</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**CN2**

**CN3**

RTS and CTS are not implemented in the Enterprise.

---

**Note:** The connections shown on this page are internal to the Enterprise. The RS232 cable should be wired pin for pin.
RS232 Jumper Settings

**Note:** Changing the RS232 jumper settings must be done by an authorized Theta Dealer or Installer ONLY. Removing the cover of the amplifier in all other cases will void the warranty and can cause an electric shock. Please see warnings on page ii.

There are 2 possible Baud rates: **9600** and **19200**. The factory default is **19200**. To change the baud rate to **9600**, move the **BAUD** jumper to the center and top pins (if the RS232 board is orientated as in figure 6). This is also known as position 0.

The **STATUS** can be returned to the controller either automatically every time a parameter has changed, or only on user request. The factory default is **AUTO**. To set the Echo **STATUS** to return Status information only upon request, move the **STATUS** jumper to the top pins position 0), or nearer to **REQ** on the RS232 board.

The three **SELECT** jumpers are used to derive the product ID number, or the “header” ID. The Enterprise can have any one of up to eight different product IDs. In this way, when communicating with a Enterprise via RS232 in a system that has multiple Enterprises, each one can be controlled separately. When a LEFT Enterprise is shipped from the factory, it is set to be the Front LEFT. Accordingly a RIGHT Enterprise is set to be Front RIGHT.

<table>
<thead>
<tr>
<th>Address(h)</th>
<th>Address(d)</th>
<th>Jumper EDC</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FE, D0</td>
<td>254, 208</td>
<td>ØØØØ</td>
<td>Front Left</td>
</tr>
<tr>
<td>FE, D1</td>
<td>254, 209</td>
<td>Ø0Ø1</td>
<td>Front Right</td>
</tr>
<tr>
<td>FE, D2</td>
<td>254, 210</td>
<td>Ø1ØØ</td>
<td>Amp # 3</td>
</tr>
<tr>
<td>FE, D3</td>
<td>254, 211</td>
<td>Ø10Ø Ø</td>
<td>Amp # 4</td>
</tr>
<tr>
<td>FE, D4</td>
<td>254, 212</td>
<td>1ØØØ</td>
<td>Amp # 5</td>
</tr>
<tr>
<td>FE, D5</td>
<td>254, 213</td>
<td>1Ø1Ø</td>
<td>Amp # 6</td>
</tr>
<tr>
<td>FE, D6</td>
<td>254, 214</td>
<td>11ØØ</td>
<td>Amp # 7</td>
</tr>
<tr>
<td>FE, D7</td>
<td>254, 215</td>
<td>1111</td>
<td>Amp # 8</td>
</tr>
</tbody>
</table>

Example of changing the Enterprise header ID to be Amp #3:

Set the jumper on **SELECT E** to Ø, the jumper on **SELECT D** to 1, and the jumper on **SELECT C** to Ø. The diagram to the right shows the ID set to ØØ1.

![Figure 7 – Enterprise RS232 Jumper Settings](image)
Appendix D Specifications

Inputs: Analog audio:
1 Single-ended RCA jack.
1 Balanced (XLR) jack.

Input Impedance: 50 KΩ Single-Ended or Balanced, for each phase.

Input sensitivity: (Single-Ended) 2.8V RMS input for 300W into 8 ohms.
(Balanced) 1.4V RMS input for 300W into 8 ohms.

Gain: (Single-Ended) 25dB (18x).
(Balanced) 31dB (36x).

Polarity: (Single-Ended) Non-Inverting.
(Balanced) Pin-2 = Positive, Pin-3 = Negative for Non-Inverting Output.

Outputs: Analog Audio: 1 balanced output (Cardas Type standard); optional second balanced output for bi-wiring. (Can be Cardas type or Reich type)

I/O RS232: 1 DB9 and 1 RJ45 connector.

Modes/Processes: Standby: Amplifier is muted and output bias is reduced to 10%.
Thermal: Channel has overheated; amp automatically switches to Standby.

Power Output:
(8 ohms) 300 W (rated) 350 W (typical)
(4 ohms) 500 W (rated) 525 W (typical)

Frequency Response: (-3dB points @ full power) 0.5 Hz - 400 KHz.

THD+Noise: <1.75%

Signal to Noise Ratio: (unweighted) >105dB

Power Requirements: 117 VAC, 10A Slo Blo main fuse, 230 VAC, 6A Slo Blo main fuse, 50-60 Hz.

Power Consumption: 30W @ Standby; 53W @ idle; 525W @ full power into 8 ohms; 925W @ 4 ohms.

Standby Trigger Input: 5-12 VDC Pulse between 1 and 500mS.

Dimensions: 9 1/16" W x 13 7/8" H x 23 5/8" D (230 x 346 x 600 mm)

Weight: 51 Lbs. Stand alone (19 Kg), 60 Lbs. Boxed with accessories (22.4 Kg)

Maximum Operating Temperature:
Internal: 176° F (80° C)
Room: 131° F (55° C)
1. Theta Digital Corporation, henceforth referred to as Theta, warrants the product designated herein to be free of manufacturing defects in material and workmanship, subject to the conditions set forth herein, for a period of 90 days from the date of purchase by the original purchaser, henceforth referred to as purchaser. If the purchaser registers the unit with Theta by mailing in the warranty card, together with a copy of the bill of sale, within 14 days of the date of purchase, said purchaser will be registered for an extended service contract. The extended service contract extends the 90 days to a period of 5 years from the date of purchase by the original purchaser or no later than 7 years from the date of shipment to the authorized Theta dealer, whichever comes first.

2. CONDITIONS
   This warranty is subject to the following conditions and limitations. The warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions in the owner's manual, abused or misused, damaged by accident or neglect or in being transported, or if the defect is due to the product being repaired or tampered with or modified by anyone other than Theta or an authorized Theta repair center. In the unlikely event that the unit requires service, contact Theta for an RA (Return Authorization) number. The product must be packed and returned to Theta or an authorized Theta repair center by the customer at his or her sole expense. Theta will pay return freight of its choice. A returned product must be accompanied by a written description of the defect, a photocopy of the original purchase receipt, and a daytime phone number where the owner can be reached. The unaltered receipt must clearly list model and serial number, the date of purchase, the name and address of the purchaser and authorized dealer and the purchase price. Theta reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

3. REMEDY
   In the event the above product fails to meet the warranty, and the above conditions have been met the purchaser's sole remedy under the limited warranty shall be to obtain an RA number and return the product to Theta or an authorized Theta repair center where the defect will be corrected without charge for parts or labor.

4. LIMITED TO ORIGINAL PURCHASER
   This warranty is for the sole benefit of the original purchaser of the covered product and shall not be transferred to a subsequent purchaser of the product.

5. DURATION OF WARRANTY
   This warranty expires 90 days after the date of original purchase. If Theta receives the completed warranty registration card within 14 days of original purchase, this period is extended to the fifth anniversary of the original date of purchase or no later that the seventh anniversary of the shipment to the authorized Theta dealer, whichever comes first.

6. MISCELLANEOUS
   ANY IMPLIED WARRANTIES RELATING TO THE ABOVE PRODUCT SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. THE WARRANTY DOES NOT EXTEND TO ANY INCIDENTAL OR CONSEQUENTIAL COSTS OR DAMAGES TO THE PURCHASER. Some states do not allow limitations on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

7. WARRANTOR
   Inquiries regarding the above limited warranty may be sent to the following address:

   Theta Digital, a division of Amplifier Technologies, Inc.
   1749 Chapin Road
   Montebello, CA 90640 USA

   WARRANTY OUTSIDE THE USA
   Theta has formal distribution in many of the countries of the free world, in each country the Theta Importer has contractually accepted the responsibility for product warranty. Warranty service should normally be obtained from the importing dealer or distributor from whom you obtained your product.

WARNINGS

1. To prevent fire or shock hazard, do not expose your Theta product to rain or moisture.

2. This unit contains voltages which can cause serious injury or death. Do not operate with covers removed. Refer all servicing to your authorized Theta dealer.

3. For continued protection against fire hazard, replace fuses only with the same type and rating of fuses as specified.