

# Tsunami<sup>2</sup>™

## The Next Game Changer Is Here!

**Tsunami2 sets a new standard for premium sound decoders, with an emphasis on FUN! More Sounds, more features, and more ways to run your trains like a real engineer would.**

Tsunami2, a new line of Digital Sound Decoders that combines the best in digital sound with innovative operating features.

**The Tsunami2 line includes five formats (see reverse side for specifications):**

- TSU-1100: Micro 1-amp universal format with four outputs
- TSU-2200: 2-amp universal format with six outputs
- TSU-21PNEM: 1-amp format with an NEM-supported 21-pin socket and six outputs
- TSU-PNP: 2-amp plug and play format with six outputs
- TSU-4400: 4-amp format with six outputs **Coming Soon!**

### Tsunami2 Features

- Powerful 32-bit processor capable of 16 simultaneous sound channels
- Adjustable reverb and equalizer for the most realistic sound optimization ever!
- Train line charging effect
- More powerful amplifier for increased volume range
- Hyperdrive2 motor control
- Functioning locomotive and train brakes with adjustable braking rates
- 20+ Hyperlight lighting effects
- Standard, 3-point and user-loadable speed curves
- Flex-Map function mapping easily maps any function to any key
- Compatible with NMRA DCC Standards & RPs

### Steam Sound Effects

Adjustable steam cut-off guaranteed to make you feel like you are in the cab and in control. Over 50 sound effects including 12 bells, over 60 whistles, 10 air pumps, 8 dynamos, 10 exhaust chuffs, snifter valve, injectors, Johnson Bar, power reverse, firebox blower, side rod clank, brake squeal, and more!

### Diesel Sound Effects

Over 50 sound effects including up to 9 manufacturer specific prime movers, engine startup and shutdown, engine prime mover through all eight notches, Straight-to-8, HEP mode, 13 bells, over 40 airhorns, 4 air compressors, dynamic brakes, radiator fans, brake squeal, and more!

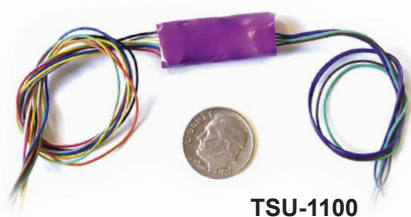
### Electric Sound Effects

Over 40 airhorns/air whistles, 13 bells, 4 air compressors, traction motor whine, and the sound of the pantograph raising and lowering. Whether you are equipping a modern ACS-64 or an urban trolley, everything you need is here!

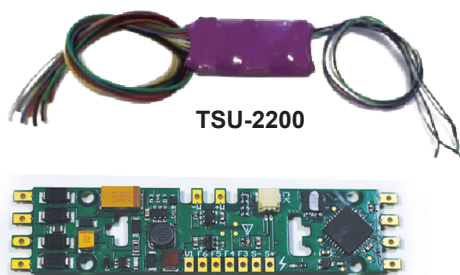
## SOUNDTRAXX®

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Made in the USA



TSU-1100

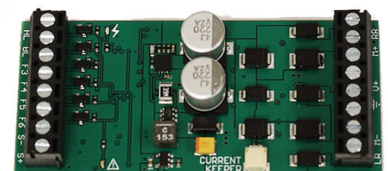


TSU-2200

TSU-PNP



TSU-21PNEM



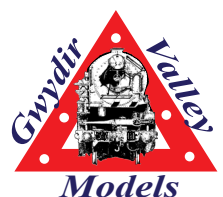
TSU-4400

*The Tsunami2 line includes five formats (see reverse side for specifications)*

**AVAILABLE  
FROM**

## GWYDIR VALLEY MODELS

PO Box 740  
GLEN INNES NSW 2370  
Ph: 02 6732 5711  
Fax: 02 6732 1731  
[www.gwydirvalleymodels.com](http://www.gwydirvalleymodels.com)



COMPATIBLE WITH  
NMRA DCC STANDARDS AND  
RECOMMENDED PRACTICES

# Tsunami<sup>2</sup> Digital Sound Decoder Formats

## TSU-1100

One of our smallest sound decoders, yet it is packed with a plethora of high-performance features! This micro 1-amp, universal-style format is ideal for small models with minimal space. It includes an optional capacitor or can be wired to a CurrentKeeper (P.N. 810140) to maintain performance over dirty track and switches.

| P.N.   | Description                           | MSRP     |
|--------|---------------------------------------|----------|
| 884001 | TSU-1100 Steam .....                  | \$185.00 |
| 885001 | TSU-1100 EMD Diesel .....             | \$185.00 |
| 885002 | TSU-1100 GE Diesel .....              | \$185.00 |
| 885003 | TSU-1100 ALCO Diesel .....            | \$185.00 |
| 885004 | TSU-1100 Baldwin & Other Diesels..... | \$185.00 |
| 886001 | TSU-1100 Electric.....                | \$185.00 |

|                      |                          |
|----------------------|--------------------------|
| Dimensions:          | 27 x 10.5 x 5mm          |
| Motor Stall Current: | 1A Max.                  |
| Function Outputs:    | 4                        |
| Function Current:    | 100mA (each output) Max. |
| Audio Amplifier:     | 1W, 8-Ohm Load           |
| DCC Track Voltage:   | 7.5V - 22V               |

## TSU-2200

This is a universal 2 Amp digital sound decoder. It is suitable for a wide variety of models from HO to S scale, and includes a connector to easily add a CurrentKeeper (P.N. 810140) to maintain performance over dirty track and switches.

| P.N.   | Description                            | MSRP     |
|--------|--|----------|
| 884002 | TSU-2200 Steam.....                    | \$175.00 |
| 885005 | TSU-2200 EMD Diesel .....              | \$175.00 |
| 885006 | TSU-2200 GE Diesel.....                | \$175.00 |
| 885007 | TSU-2200 ALCO Diesel .....             | \$175.00 |
| 885008 | TSU-2200 Baldwin & Other Diesels ..... | \$175.00 |
| 886002 | TSU-2200 Electric .....                | \$175.00 |

|                      |                          |
|----------------------|--------------------------|
| Dimensions:          | 35 x 18 x 6mm            |
| Motor Stall Current: | 2A Max.                  |
| Function Outputs:    | 6                        |
| Function Current:    | 100mA (each output) Max. |
| Audio Amplifier:     | 2W, 8-Ohm Load           |
| DCC Track Voltage:   | 7.5V - 22V               |

## TSU-21P

This is a 1-Amp digital sound decoder with six function outputs designed for easy plug-in operation when mated to a 21-pin NEM connector.

| P.N.   | Description                           | MSRP     |
|--------|---------------------------------------|----------|
| 884003 | TSU-21P Steam .....                   | \$165.00 |
| 885009 | TSU-21P EMD Diesel .....              | \$165.00 |
| 885010 | TSU-21P GE Diesel.....                | \$165.00 |
| 885011 | TSU-21P ALCO Diesel .....             | \$165.00 |
| 885012 | TSU-21P Baldwin & Other Diesels ..... | \$165.00 |
| 886003 | TSU-21P Electric.....                 | \$165.00 |

|                      |                          |
|----------------------|--------------------------|
| Dimensions:          | 30.5 x 15.5 x 6.5mm      |
| Motor Stall Current: | 1A Max.                  |
| Function Outputs:    | 6                        |
| Function Current:    | 100mA (each output) Max. |
| Audio Amplifier:     | 2W, 8-Ohm Load           |
| DCC Track Voltage:   | 7.5V - 22V               |

## TSU-PNP

A universal factory board replacement sound decoder suitable for use in many manufacturer's models such as those made by Atlas, Athearn, and InterMountain Models. It is suitable for a wide variety of models from HO to S scale, and includes a connector to easily add a CurrentKeeper (P.N. 810140) to maintain performance over dirty track and switches.

| P.N.   | Description                           | MSRP     |
|--------|---------------------------------------|----------|
| 885013 | TSU-PNP EMD Diesel .....              | \$165.00 |
| 885014 | TSU-PNP GE Diesel.....                | \$165.00 |
| 885015 | TSU-PNP ALCO Diesel .....             | \$165.00 |
| 885016 | TSU-PNP Baldwin & Other Diesels ..... | \$165.00 |

|                      |                          |
|----------------------|--------------------------|
| Dimensions:          | 73.7 x 16.8 x 4.8mm      |
| Motor Stall Current: | 2A Max.                  |
| Function Outputs:    | 6                        |
| Function Current:    | 100mA (each output) Max. |
| Audio Amplifier:     | 2W, 8-Ohm Load           |
| DCC Track Voltage:   | 7.5V - 22V               |

## TSU-4400

This 4-amp, universal-style digital sound decoder is suitable for a variety of scales. It includes a connector to add a CurrentKeeper (P.N. 810140) to maintain performance during brief power interruptions.

| P.N.   | Description                           | MSRP     |
|--------|---------------------------------------|----------|
| 884005 | TSU-1100 Steam .....                  | \$275.00 |
| 885017 | TSU-1100 EMD Diesel .....             | \$275.00 |
| 885018 | TSU-1100 GE Diesel .....              | \$275.00 |
| 885019 | TSU-1100 ALCO Diesel .....            | \$275.00 |
| 885020 | TSU-1100 Baldwin & Other Diesels..... | \$275.00 |
| 886005 | TSU-1100 Electric.....                | \$275.00 |

|                      |                          |
|----------------------|--------------------------|
| Dimensions:          | 69 x 30.5 x 14mm         |
| Motor Stall Current: | 4A Max.                  |
| Function Outputs:    | 6                        |
| Function Current:    | 400mA (each output) Max. |
| Audio Amplifier:     | 3W, 8-Ohm Load           |
| DCC Track Voltage:   | 7.5V - 26V               |