



maxsquare

MSQ-84A

DSP Toslink Virtual Surround Audio Enhancer



MADE IN TAIWAN

Table of Contents

- 1. Introduction..... 2
- 2. Features..... 3
- 3. Package Contents..... 4
- 4. Specifications..... 4
- 5. Panel Description 5
- 6. Connection Diagram 6
- 7. Warranty 7

1. Introduction

The MSQ-84A DSP Toslink Virtual Surround Audio Enhancer is designed to improve everyday digital audio experiences without the need for complex or expensive surround sound systems. Leveraging advanced OMNIsfx Digital Signal Processing (DSP) technology, the MSQ-84A reconstructs PCM stereo signals into a wide, 360-degree immersive soundstage.

The MSQ-84A is ideal for use with TVs, soundbars, external speakers, and audio systems in home entertainment, gaming, and streaming environments. With a compact, plug-and-play design, it integrates seamlessly into existing setups and can be discreetly placed behind a TV or inside a media cabinet.

2. Features

- Support uncompressed PCM Stereo digital signals
- Advanced DSP audio processing for enhanced spatial sound
- Virtual surround sound effect without additional speakers
- Improved dialogue clarity for movies, streaming, and TV programs
- Plug-and-play installation with no software required
- Palm-sized design that can be discreetly mounted or hidden behind displays to maintain a clean setup
- Equipped with both Digital Optical (Toslink) and 3.5mm Analog outputs to support soundbars, headphones, and legacy audio systems simultaneously.

*** Please ensure the audio output format of the source device is set to PCM.**

3. Package Contents

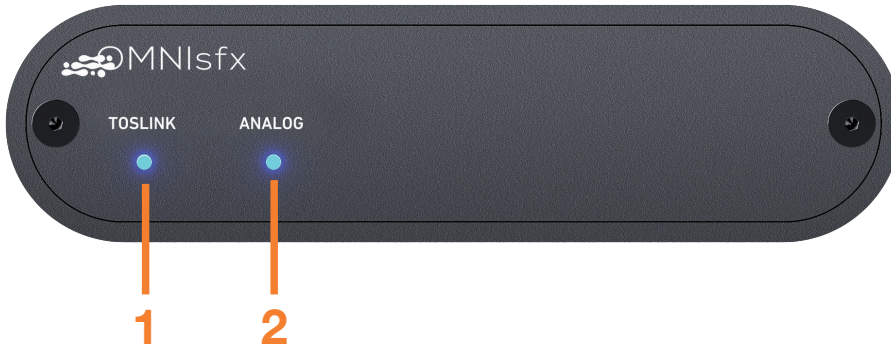
- MSQ-84A x1
- USB 2.0 Type-A to Micro-USB Cable (50 cm) x1
- Toslink Optical Cable (50 cm) x1
- Self-Adhesive Reclosable Fasteners x1 set
- Self-Adhesive Rubber Feet x4
- User Manual x1

4. Specifications

Item	Description
Model Name	MSQ-84A
Product Function	DSP Toslink Virtual Surround Audio Enhancer
Power Supply	DC 5V via Micro-USB connector
Audio Input	1 x Toslink (Digital Optical)
Audio Output (Digital)	1 x Toslink (Digital Optical)
Audio Output (Analog)	1 x 3.5mm Stereo
Supported Sound Format	PCM Stereo (Uncompressed)
Sampling Rate Support	Up to 96kHz / 24-bit
Enclosure Material	Aluminum
Origin	Made in Taiwan

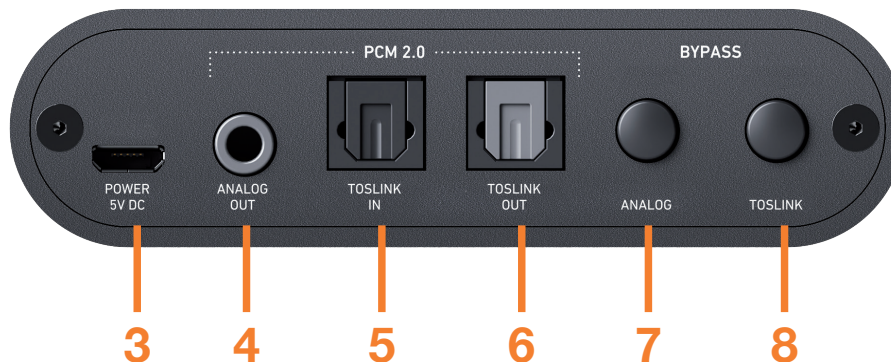
5. Panel Description

Front Panel



1. **S/PDIF (TOSLINK) Output Bypass ON/OFF LED Indicator:** Bypass ON (NO LED)/OFF (Blue)
2. **Analog Output Bypass ON/OFF LED Indicator:** Bypass ON (NO LED)/OFF (Blue)

Rear Panel



3. **Micro-USB Port:** +5V Power
4. **Analog Output (3.5mm)**
5. **S/PDIF (TOSLINK) Input**
6. **S/PDIF (TOSLINK) Output**
7. **Analog Output Bypass ON/OFF Button:** Bypass ON >DSP Audio Enhanced Mode OFF
8. **S/PDIF (TOSLINK) Output Bypass ON/OFF Button:** Bypass ON >DSP Audio Enhanced Mode OFF

6. Connection Diagram



7. Warranty

Maxsquare warrants the MSQ-84A DSP Toslink Virtual Surround Audio Enhancer for one year from the date of purchase from Maxsquare or an authorized dealer from defects in material and workmanship. If this product fails to function properly within the first year of its warranty, Maxsquare may repair or replace it at its discretion, provided that the device has not been subjected to accident, disaster, abuse, or other unauthorized modifications, including static discharge and power surge. Maxsquare provides this warranty to its BUYER solely in the case of a direct transaction. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. These repairs are warranted by a 90-day warranty from the date of reshipment to the buyer. Customers agree to insure the unit or incur the risk of loss or damage in transit if the unit is delivered by mail. A unit will not be accepted if it does not have a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of purchase may be required to claim the warranty. Customers outside of Taiwan must pay for shipping to and from Maxsquare. Cables and power adapters have a 30-day warranty and must be free of any markings or scratches, as well as neatly coiled.

This manual's material has been carefully reviewed and is believed to be accurate. Maxsquare, on the other hand, takes no responsibility for any inaccuracies or omissions in this manual. Even if advised of the possibility of such losses, Maxsquare will not be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual. Furthermore, the technical information contained in documents on the MSQ-84A's features and specifications is subject to change without further notice.

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