OMNI USB

Optical Isolation, Zero Disruption.

Next Level. Noiseless USB.

The OMNI USB is the only USB optical isolator that combines complete **electrical isolation** with **Active Noise Cancellation** technology.

Housed in a sleek USB Hub, it features ultra-speed **USB 3.2** connectivity and whisper-quiet **battery operation**.

USB OptiLink

OMNI USB

Source Device

USB DAC

Key Features

Optically Isolates the Incoming USB Data

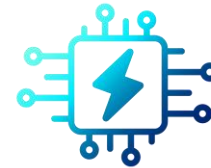**8,000mAh** Battery for Complete Mains Isolation

PD3.0 passthrough to Fast Charge Source Device

Hi-Res 192kHz/24-bit DDC with Optical and Coax Puts

PurePort USB Outputs with Active Noise Cancellation

Smart Power Management with Charging Optimisation

10MHz Clock Input Allows External Clock to any DAC

USB 3.2 Delivers Rapid Data Transfer up to 10Gbps

Target Audience

Demographics
Age 30+

Current Situation
Uses a high-end streamer or dedicated music server and a premium USB DAC

Need for OMNI USB
Seeks a USB noise filter with optical isolation and ANC for maximum noise removal

Categories
High-End Streamers, PC/Mac Music Servers, Volumio Servers, CAS Audiophiles

Auralic

Aurender

Innuos

Roon Server

Lumin

Esoteric

PC Music Server

Mac Music Server

More than listed here…

Messaging & Tagline

Say goodbye to USB noise with the OMNI USB and experience **triple the defence** against interference, with Optical Isolation, Active Noise Cancellation, and internal battery power.

Featuring lightning-fast charging, ultra-speed data transfer, and a 10MHz synchronous clock input for ultra-precise timing, this USB Optical Isolator is your ultimate ally for seamless performance.

"Optical Isolation, Zero Disruption"

SilentPower

Unique Value
Statements

Isolation. Innovation.

By completely isolating inputs and outputs, this advanced noise prevention technique ensures **no noise** from the source reaches your DAC.

This is achieved by converting incoming signals into **optical** (light) and **back** again.

Optical isolation, a feature **rarely** found in USB filters, provides the best noise isolation with **no high frequency leakage.**

Receiver

Light

In

Pulse

Out

Transmitter
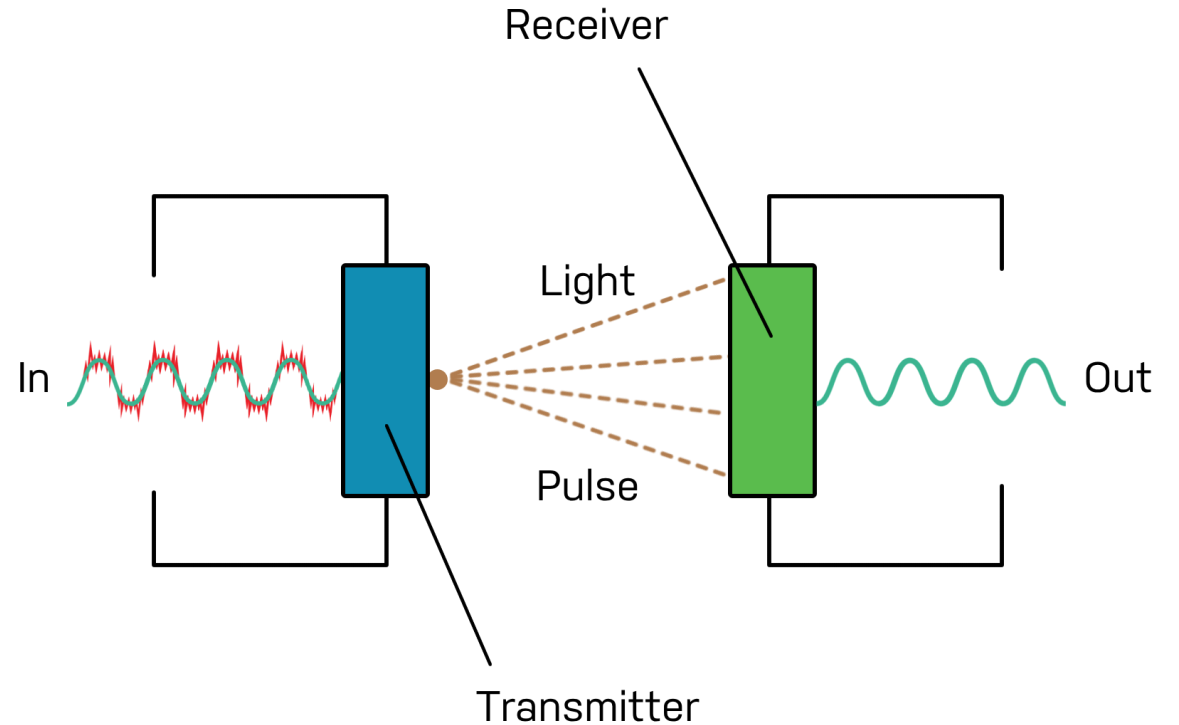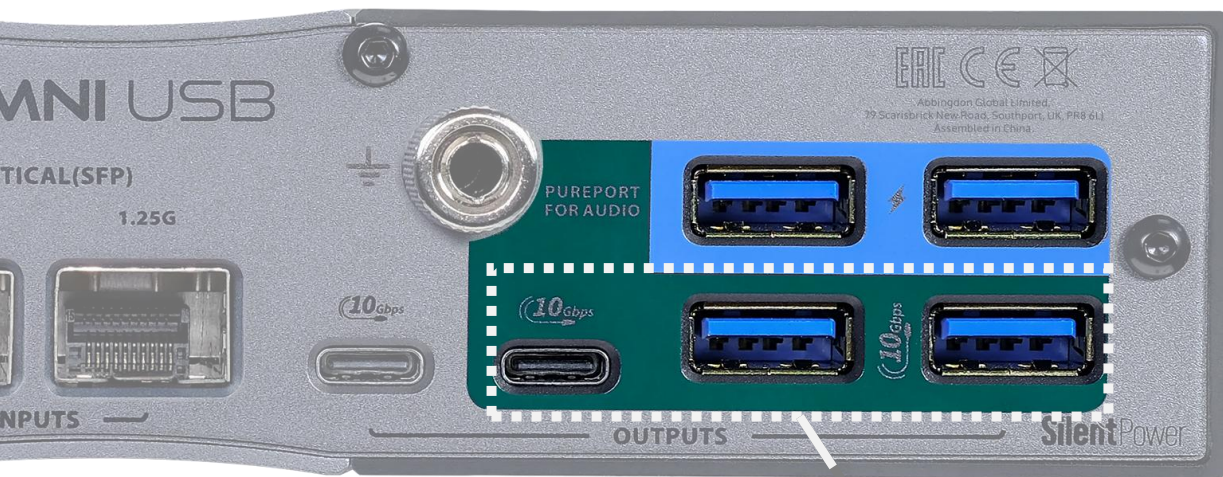
PurePorts for
connecting to USB DAC

Pure Port. Pure Sound.

If **any** noise remains, our Active Noise Cancellation steps in—which is **100 times** more effective than standard noise filters.

All **five** PurePorts on the OMNI USB utilise this advanced filtration technology, with two specifically dedicated to delivering isolated power.

Escape the Mains.

Mains power can be noisy and provide unstable voltage, which **audibly affects music quality.**

With an 8,000mAh battery and built-in 'Power Delivery' fast charging to the source device, the OMNI USB facilitates extended critical listening sessions **without needing to be plugged into the mains.**

8,000mAh Up to 15 hours

Noise free!

![SilentPower]

Features and Functionality

Dynamic Diagnostics.

Instantly access **power usage data** for each port, including insights into the internal **power supply ripple**.

The OMNI USB displays voltage ripple fluctuations on a **real-time line graph**.

This visually illustrates the effectiveness of the **PurePorts**, which exhibit a lower peak-to-peak ripple, confirming **low noise performance**.

A narrower range signifies less noise and cleaner power.
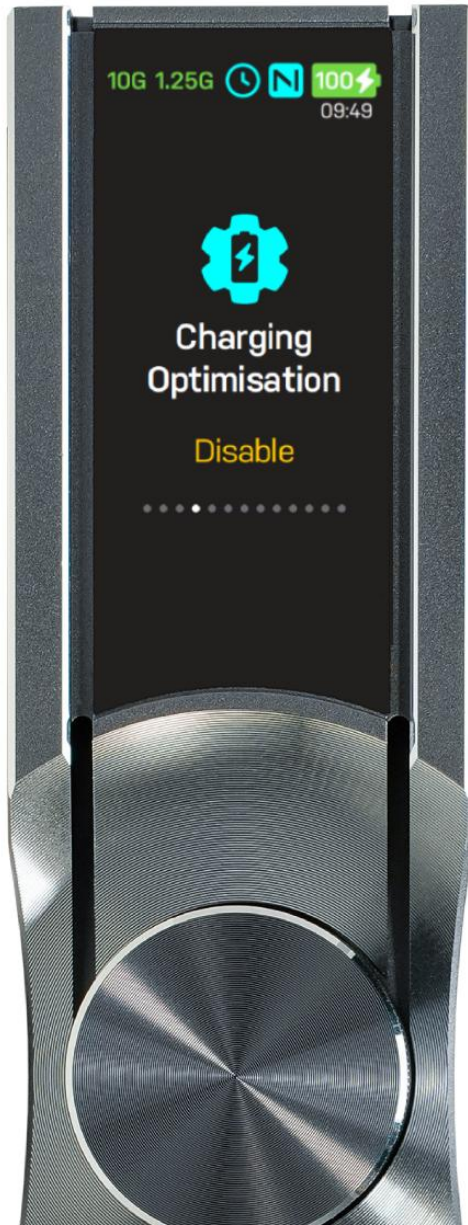
Colossal Capacity.

The OMNI USB is equipped with an 8,000mAh battery that features **smart charging optimisation.**

This maintains the charge between 20% and 80%, to help **extend** the battery's **lifespan**.

Convert and Connect.

Is your DAC optimised for Coax or Optical, but you want to connect it to your PC, phone or streamer?

OMNI USB bridges the gap effortlessly.

Its 192kHz/24-bit Digital-to-Digital Conversion functionality includes **two** voltage options via independent Coax outputs to ensure you get the **best sound** from **any DAC.**

Legacy DAC without a USB input

CD player with coaxial input

Master Word Clock

DAC Without Clock Input

Perfect Timing.

Improve the musical timing and precision of any DAC, no matter its **price** or **features**.

With its 10MHz clock input, the OMNI USB synchronises your favourite DAC and all USB devices to your external clock, bringing everything into perfect harmony.

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Appendix

Frequently Asked Questions

"Can it remain connected to mains power indefinitely, with charging optimisation keeping it between 20-80%?"

Yes, the OMNI USB can stay connected to mains power long-term. Its smart charging system actively manages the battery to maintain an optimal charge level. However, this may occasionally require higher charging current as part of the optimisation process.

"Do USB devices attached to the OMNI USB's Hub benefit from isolation?"

Yes. All connected USB devices benefit from complete ground isolation from the source. Additionally, when connected via PurePort, the OMNI USB's Active Noise Cancellation circuitry improves data integrity – especially for devices like USB hard drives – resulting in cleaner audio streaming.

USB Products Compared
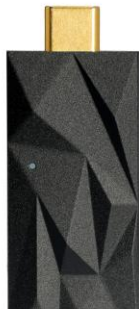
	iSilencer Max	OMNI USB
Price	£79	£899
Power Input	20V/5A	9V/6A-15V/4A
Data Transfer Speed	5Gbps	10Gbps
Method of Noise Removal	ANC	Optical Isolation and ANC
Powered By	Source Device	Internal Battery or External PSU
Outputs	1x USB-C power and audio	2x USB-A power and audio 2x USB-A power 2x USB-C power and audio
Ground Loop Breaker	No	Yes

USB OptiLink Connections

Front

Back

USB-C
Host Input

USB-C PD3.0
Input

SFP Optical
Outputs

OMNI USB Connections

Front

Back

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Grounding Terminal

USB-C Power & Data Port

Optical & Coax Digital Outputs

USB-C Power & Data Port

DC Power & Clock Inputs

SFP Optical Inputs

PurePort USB Ports

Recommended Connections

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Server

OptiLink

Clock

Disc Drive with Separate
USB Power & Data

AV Receiver with
Digital Input

HDD

DAC
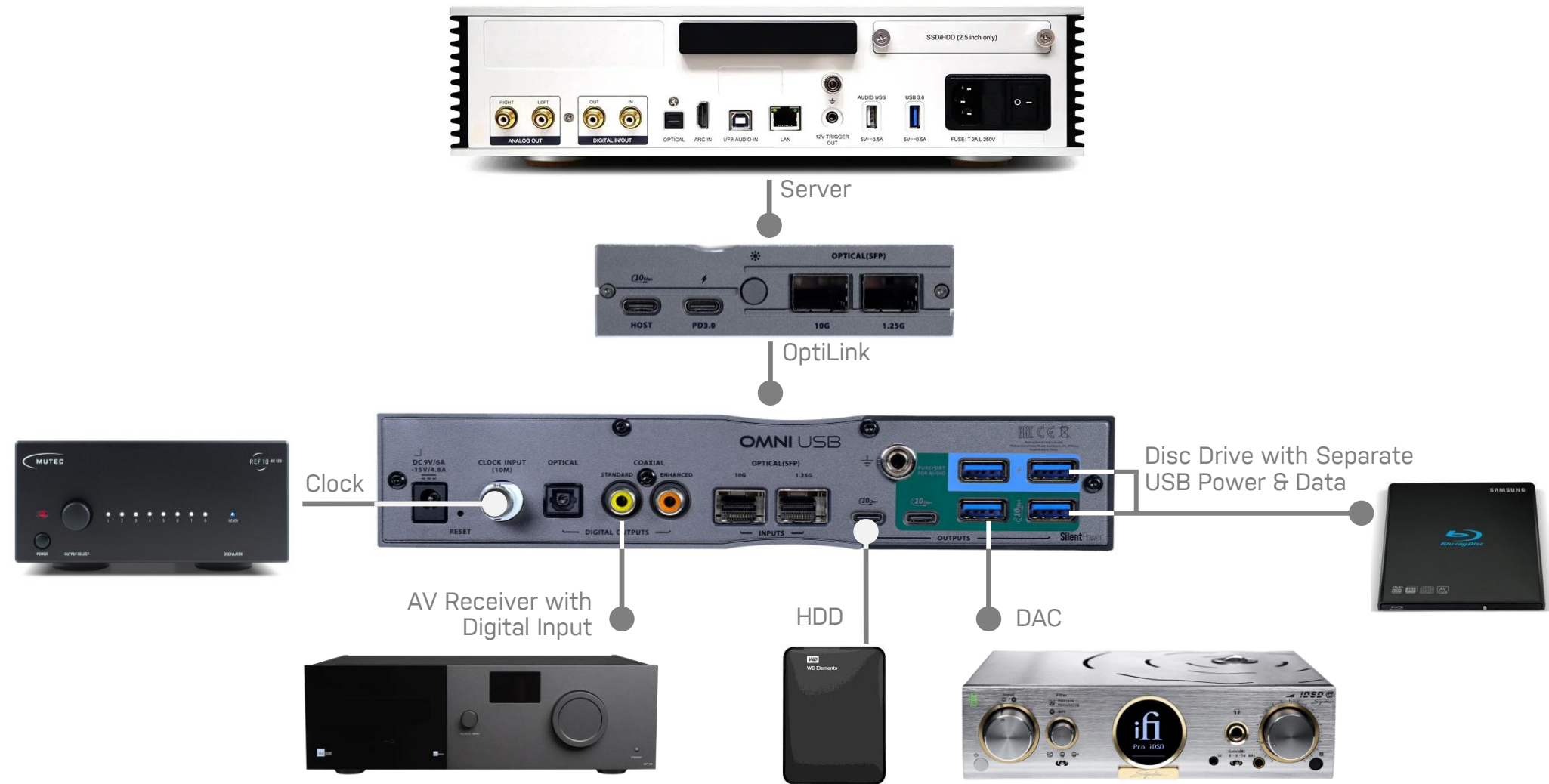
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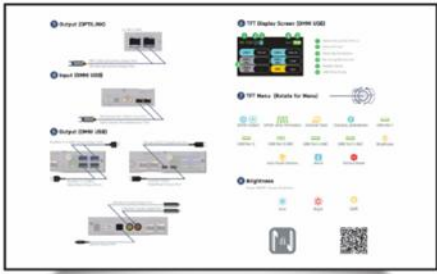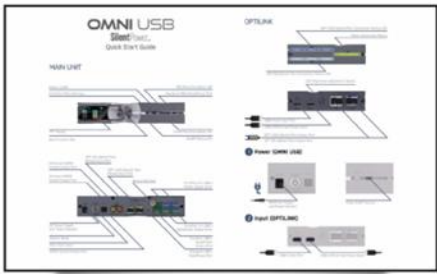
Specifications

OMNI USB

Input Voltage	9V/6A-15V/4.8A
Inputs	10G SFP; 1.5G SFP; 1x BNC Clock Sync
Pure USB Ports	2x USB-A (Power & Data); 2x USB-A (Power); USB-C
Standard USB Ports	2x USB-C
Digital Outputs	2x Coaxial (Standard/High Voltage); 1x Optical
USB Compliancy	USB 3.2; USB 2.0
Data Speeds	10Gbps/5Gbps/480Mbps/12Mbps/1.5Mbps
Battery	Lithium-Ion 8,000mAh
Dimensions	214 x 158 x 41mm
Net Weight	1.19kg

USB OptiLink

Input Voltage	5V
Inputs	Host USB-C; USB-C PD3.0
PD3.0 Power Input	100W (20V/5A)
Outputs	10G SFP; 1.5G SFP
USB Compliancy	USB 3.2; USB 2.0
Data Speeds	10Gbps/5Gbps/480Mbps/12Mbps/1.5Mbps
Dimensions	99 x 93 x 24mm
Net Weight	268g (with SFP optical modules installed)

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