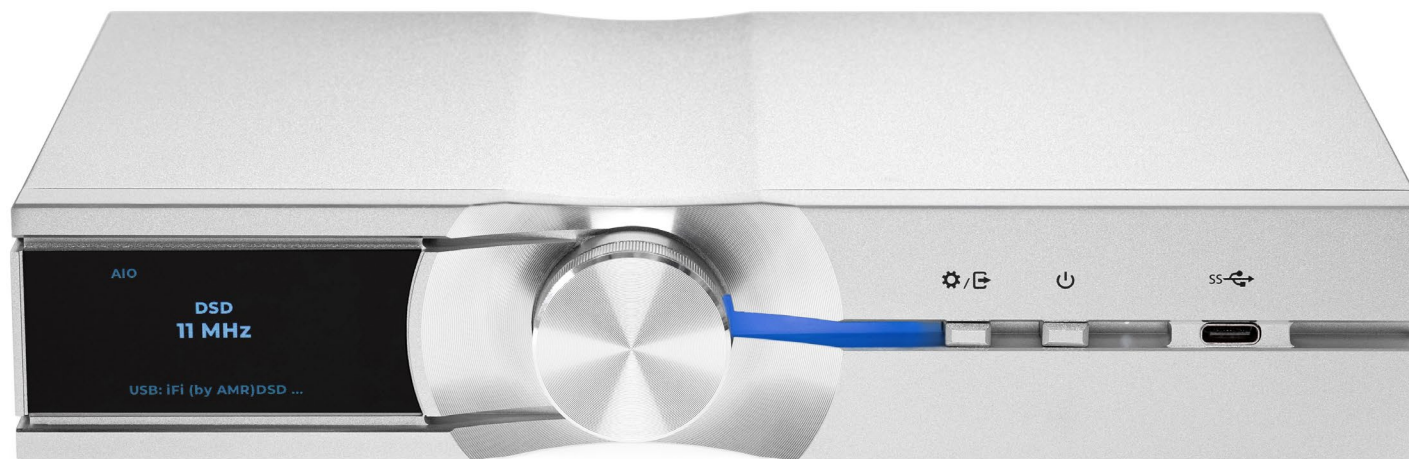


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NEO STREAM

Tech Lowdown

Ultra-Res Wi-Fi/Ethernet Network Audio Streamer with Integrated DAC

iFi have fused the NEO iDSD's high-performance DAC circuitry with our super flexible network streaming engine.

The **NEO Stream** is the ultra-resolution digital audio hub that turns your home system into sonic heaven.

- Add streaming capability to your cherished system
- Sonically upgrade your existing streamer
- The only streamer you will ever need



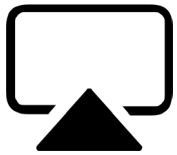
The Smart Streaming Choice

- Open-source architecture – works with multiple apps
- Future proofed - constantly evolving platform support
- Custom-designed hardware and software – built for exceptional sound



Stream The Way You Want

- Tidal Connect
- Spotify Connect
- Roon Ready
- AirPlay
- DLNA/UPnP
- NAA and more



Hi-Res Streamer

PCM 768
705
384
Pulse Code Modulation 352

DXD 2X
1X
Digital eXtreme Definition

DSD 4X
2X
Direct Stream Digital 1X

 **MQA**

Exclusive Modes

Our 'exclusive modes' are individual settings dedicated to specific modes of operation to deliver the purest performance possible.

- AIO (All-In-One) - great for all platforms, audio formats and devices
- DLNA – optimises performance when using DLNA compatible apps and devices
- Tidal Connect - if you subscribe, this is the mode for you
- ROON – NEO Stream is ROON Ready!
- NAA (Network Audio Adapter) - max out performance when using the NEO Stream as a NAA



Digital Filters

The NEO Stream features four bespoke digital filters:

BP – Bit Perfect

No digital filtering, no pre or post ringing

STD – Standard

Modest filtering, modest pre and post ringing

MP – Minimum Phase

Slow roll-off, minimum pre and post ringing

GTO – Gibbs Transient Optimised, up-sampled to 384/352kHz

Minimum filtering, no pre-ringing and minimum post ringing



Pure, Clean Sound

- USB and S/DIF interfaces regulated by femto-precision clock – eradicates jitter
- Active Noise Cancellation and iPurifier technologies - remove distortion from the audio signal
- SilentLine retina-grade TFT screen



Elevated LAN Technology

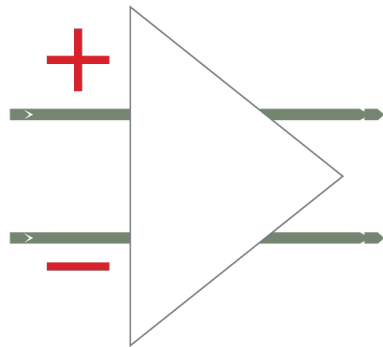
- Optical LAN input isolation technology – enhanced sound quality over cabled network connection
- LAN optical isolation technology - superior sound over Gigabit Ethernet connections
- Ultra-low noise power supply and LAN optical transmitter/receiver included (OptiBox)



Expert Design and Engineering

- Custom-designed hardware and software – built for exceptional sound
- Fully balanced analogue circuitry – maximum sonic purity

Balanced



PCB



iFi operational amplifier, high-performance, low-noise OV1028

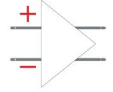


SilentLine OLED



High Speed shielded RJ45 socket with integrated isolation transformers

Balanced



Balanced output stage



S/SPDIF iPurifier technology incorporated



Precision low-noise power supply



INNOVATOR IN ELECTRONICS



USB3.0 ports with ANC technology



MQA Decoding
XMOS 16-Core controller with iFi optimised firmware



Synchronous 1.6MHz high-speed precision power supply controller

TAIYO YUDEN

TAIYO YUDEN and Murata low ESR inductors



Burr-Brown Native DSD DAC



Low-jitter Femto audio clock for both SPDIF and USB



64bit Quad-core



COG capacitors



High-PSRR, low idle current, low-dropout voltage regulators with soft start

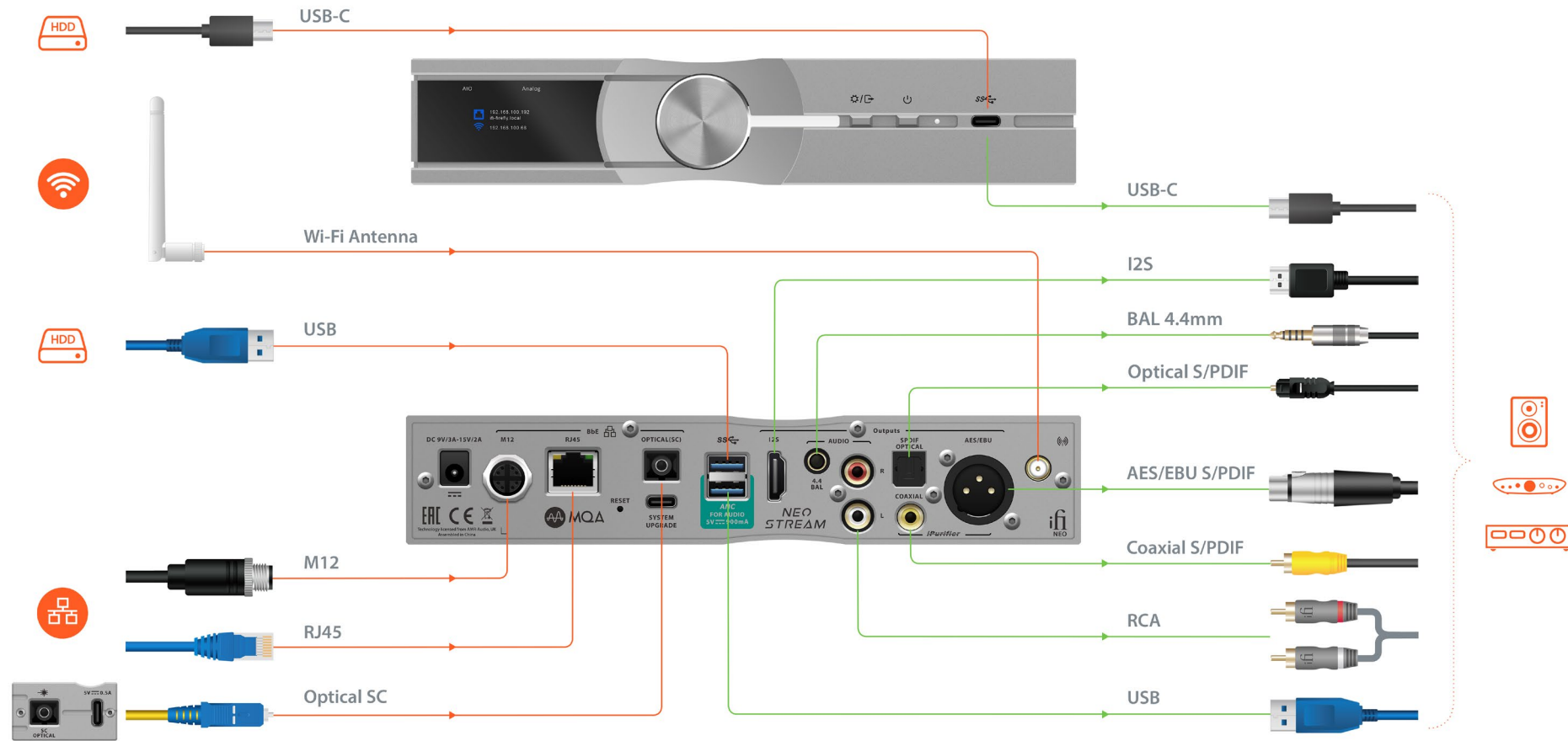


Panasonic film capacitors

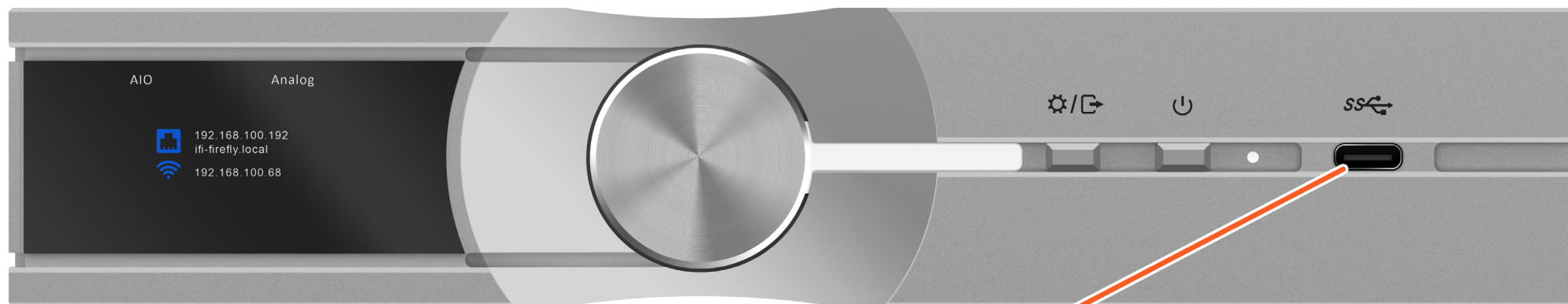


high-performance Ethernet switch with a low-power integrated 5-Port Giga-PHY

Simple Connection Guide

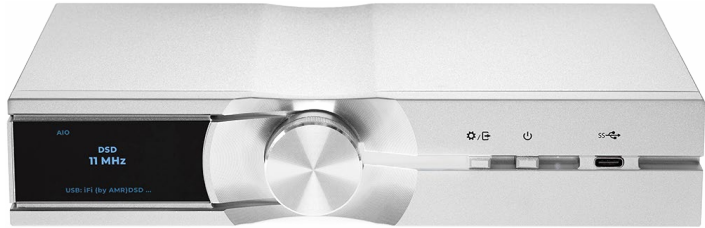


Connection Guide - Front

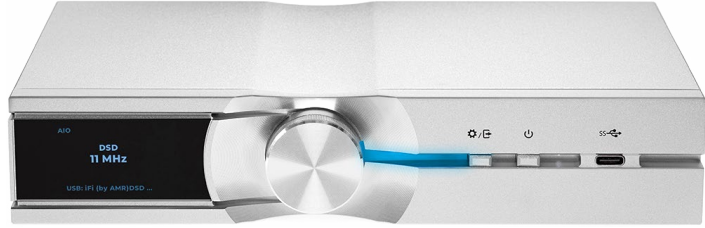


USB Input / Output
USB Storage / DAC

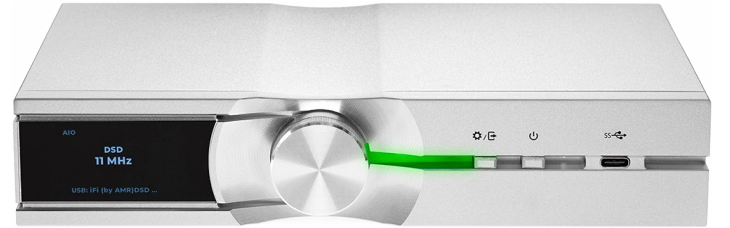
Network Status LEDs



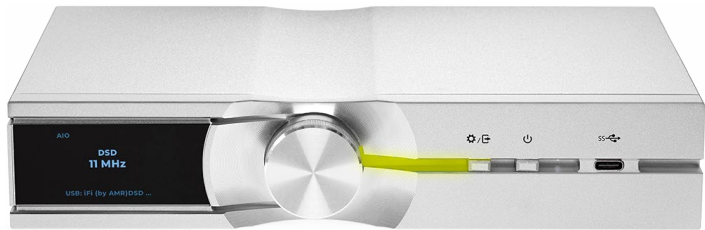
Network Status LED	LED	Speed
Internet	White	Fast



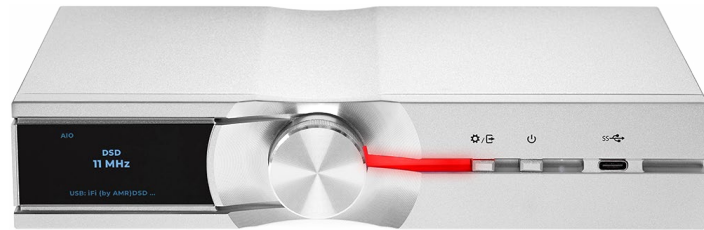
Network Status LED	LED	Speed
Internet	Cyan	Slow



Network Status LED	LED	Speed
Local network (no Internet)	Green	Fast

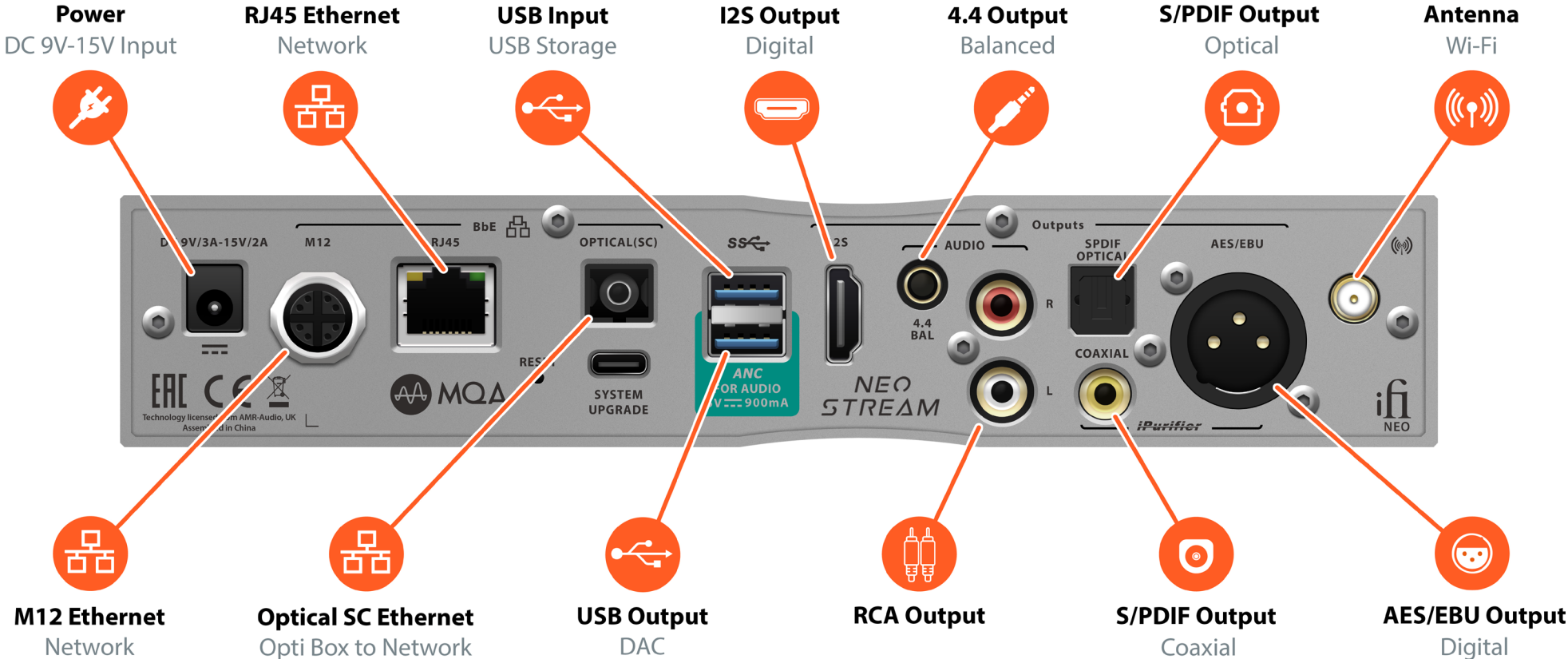


Network Status LED	LED	Speed
Local network (no Internet)	Yellow	Slow



Network Status LED	LED	Speed
No connection	Red	-

Connection Guide - Rear



Specifications

Inputs	Wi-Fi
	Ethernet (M12 X-code 8-pin/RJ45/Optical)
	USB-A
	USB-C (front panel) (USB DISK, HDD etc.)
Formats	DSD 512 / 22.6MHz
	PCM 768kHz
	MQA Full Decoder
Analogue output	Balanced 4.4mm 4V RMS / UnBAL RCA 2V RMS
Digital output	USB-C (front panel) / USB3.0 Type-A Socket x2 (USB2.0 compatible)
	S/PDIF Optical (PCM up to 192kHz, 24-bit)
	S/PDIF Coaxial (PCM up to 192kHz, 24-bit)
	AES/EBU (XLR - single link, PCM up to 192kHz)
	I2S via HDMI connector

Digital output - Pinout	1	Data-
	2	Gnd
	3	Data+
	4	Bck+
	5	Gnd
	6	Bck-
	7	Wck-
	8	Gnd
	9	Wck+
	10	Data-
	11	Gnd
	12	Mck-
	13	DSD Enable; L=PCM, H=DSD
	14	
	15	
	16	
	17	Gnd
	18	5V Power Enable Output; L=Off, H=On
	19	N/C
	20	GND
	21	
	22	
	23	

Specifications

Output Impedance	Balanced	$\leq 74\Omega$
	UnBAL	$\leq \Omega$
SNR	Balanced / UnBAL	$< -106\text{dB(A)} @ 0\text{dBFS}$
THD+N	Balanced / UnBAL	$< 0.007\% @ 0\text{dBFS}$
Power supply requirement	DC 9V/2.0A	
	12V/1.8A	
	15V/1.2A* (centre pin +)	
Power consumption	$< 0.5\text{W}$ idle	Power consumption
	14W max	
Dimensions	214 x 151 x 41 mm	Dimensions
	8.4" x 5.9" x 1.6"	
Net Weight	1.0kg	Net Weight
	2.26lbs	

ifi
audio