

THE NEW WAVE OF DIGITAL SOUND

NEW iDSD

- Hi-Res USB and S/PDIF DAC – PCM768/DSD512. Full MQA decoding.
- Hi-Res Bluetooth DAC - 96kHz Hi-Res Bluetooth: LDAC, HWA/LHDC, aptx Adaptive/HD/LL, AAC
- True Balanced circuit and headphone amp.



Hi-Res DAC

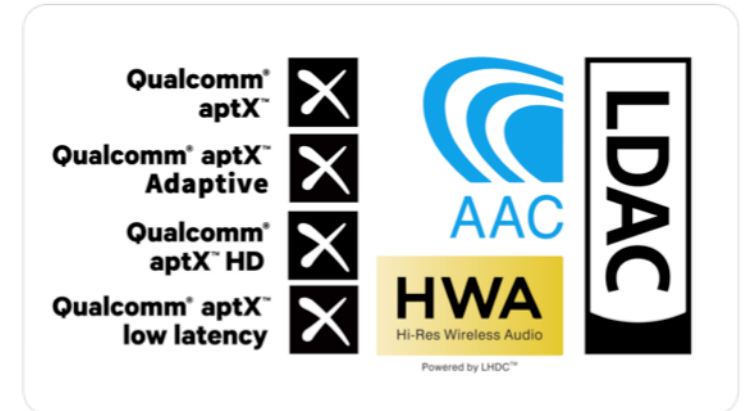
PCM 768
705
384
Pulse Code Modulation 352

DSD 8X
4X
2X
Direct Stream Digital 1X

DXD 2X
1X
Digital eXtreme Definition



- Full MQA decoder
- MQA over S/PDIF
- Completes all 3 unfolds to deliver the highest possible sound quality

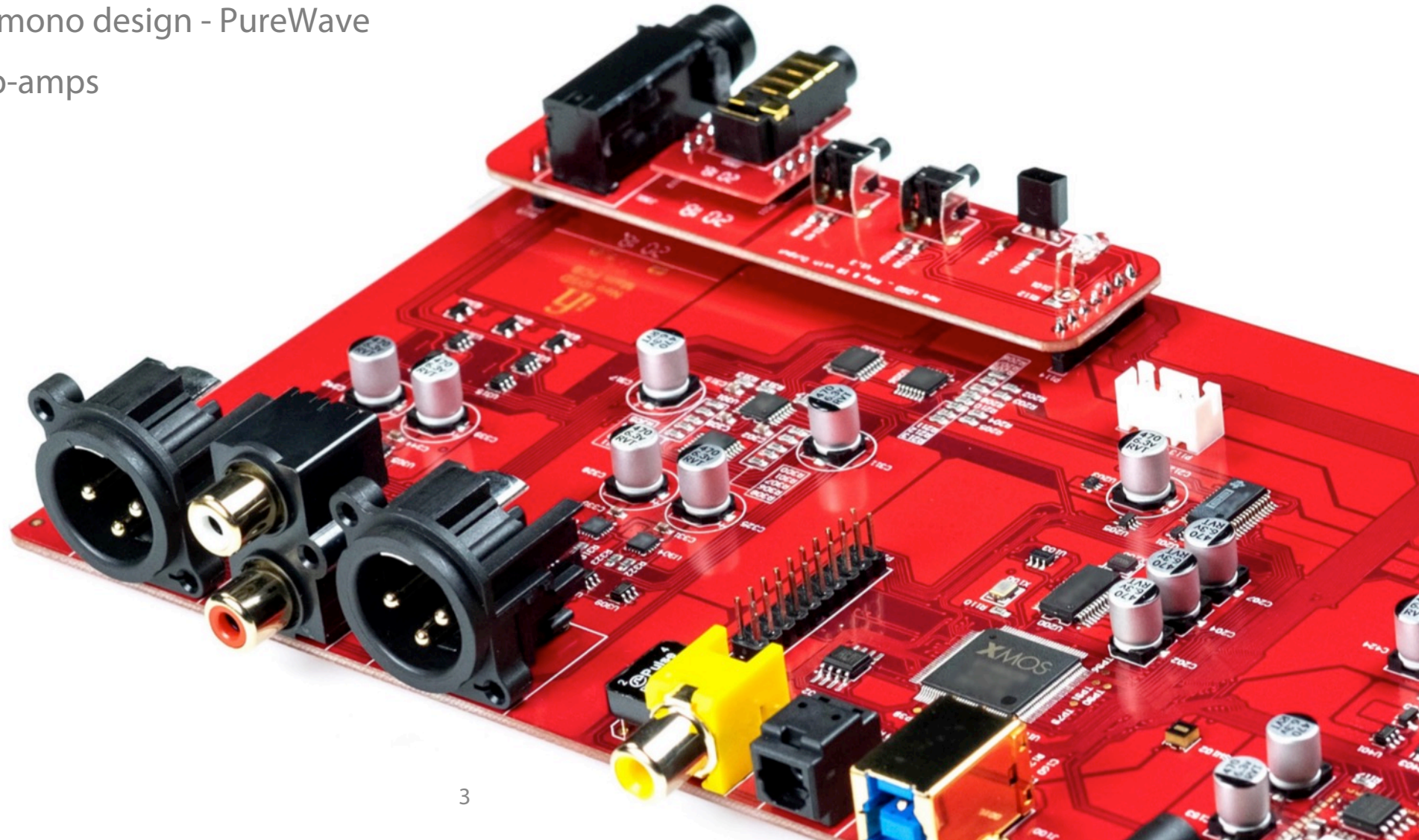


- One of the first in the world to use start-of-the-art Qualcomm QCC5100 chip
- Bluetooth5.0
- All hi-res codecs

Pro Series | Fully Balanced Circuitry

- Fully symmetrical dual-mono design - PureWave
- Low noise/distortion op-amps
- Max. 1033mW output


Balanced
Performance
1,000mW





Precision low-noise power supply



Low noise/distortion OV2637A (0.0001%) and J-Fet OV4627A
Performance equals/surpasses many high-end headphone amplifiers



stepped attenuator IC: W990VST



INNOVATOR IN ELECTRONICS
Murata Low-ESR high Q
multilayer capacitor



COG capacitors

For audio use with extremely low distortion



Advanced trench technology MOSFET as muting switch
Hence when not in use doesn't affect the sound

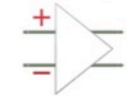


Burr-Brown Products
from Texas Instruments
Burr-Brown Native DSD DAC



Low Jitter GMT clock system

Balanced



Fully balanced circuit



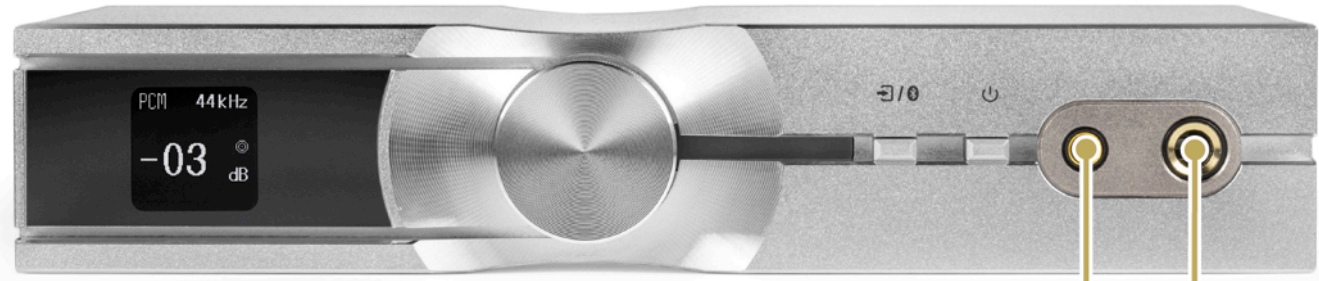
Qualcomm 5100 series Bluetooth chip
Bluetooth5.0®(aptx, aptX HD, aptX Adaptive, aptX LL,
LDAC, HWA/LHDC, AAC and SBC)



Precision analogue volume control



XMOS 16-Core USB controller
with iFi optimised firmware



NEO iDSD

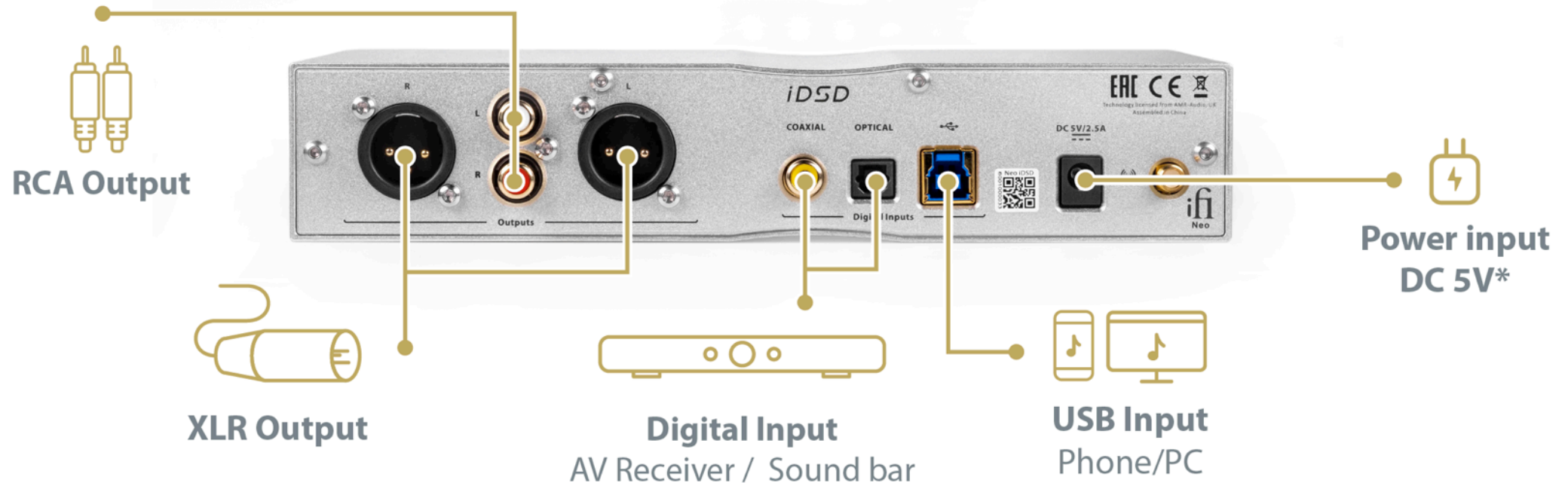
CONNECTIONS GUIDE



Balanced HP - 4.4mm



SE HP - 6.3mm



RCA Output

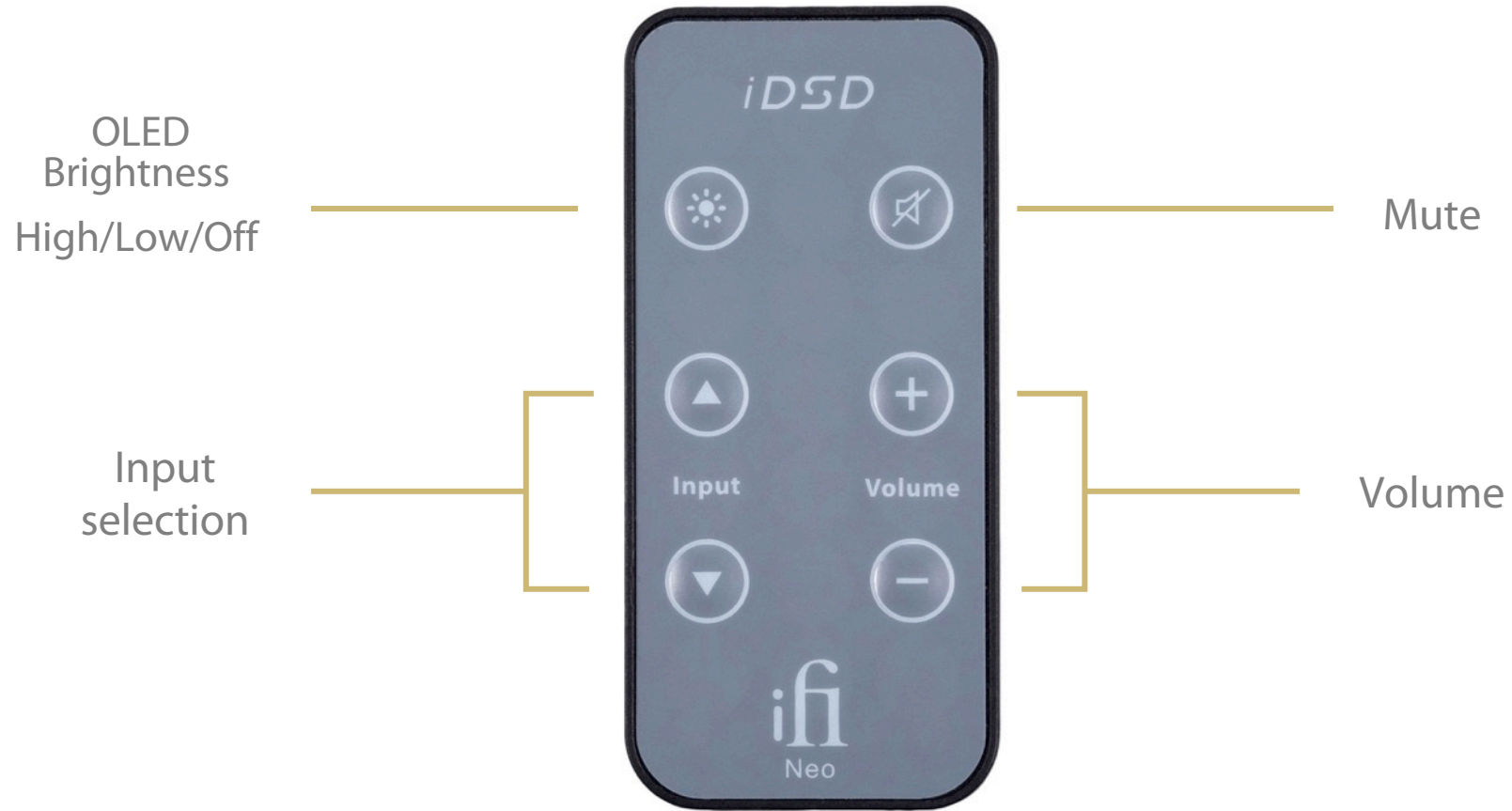
XLR Output

Digital Input
AV Receiver / Sound bar

USB Input
Phone/PC

Power input
DC 5V*

Remote Control



NEO iDSD

Key Features

Native DSD/PCM Burr-Brown® 4-channel DAC chipset.

Extremely low THD: <0.0015 % and ultra-high SNR: >120 dB.

Digital inputs: USB3.0 B (USB2.0 compatible)/S/PDIF (coaxial/optical)/Bluetooth 5.0.

Analogue outputs: XLR/RCA.

Headphone outputs: 4.4mm Balanced/6.3mm UnBAL.

Ultra fast USB interface with 16 logic cores and up to 2000MIPS processing power.

Line Section			
Outputs	Balanced XLR	6.3V / 7.7V max. (variable)	4.4V fixed
	UnBAL RCA	3.2V / 3.9V max. (variable)	2.2V fixed
Zout	Balanced	<= 100Ω	
	Unbalanced	<= 50Ω	
SNR	-112dB(A) @ 0dBFS (UnBAL/BAL)		
DNR	>116dB(A) @ -60dBFS (UnBAL/BAL)		
THD + N	<0.0015% @ 0dBFS (UnBAL/BAL)		

Headphone Section			
Outputs	Balanced	2V / 6.2V max.	12Ω - 600Ω Headphone
	UnBAL	1V / 3.3V max.	12Ω - 300Ω Headphone
Output Power:	Balanced	>6.4V/68.6 mW (@ 600Ω)	
		>5.77V/1040 mW (@ 32Ω)	
	Unbalanced	>3.25V/17.6 mW (@ 600Ω)	
		>3V/295 mW (@ 32Ω)	