OSD NERO

XC1 INTEGRATED AMPLIFIER & DAC

DATA SHEET



Front panel



Rear panel with Bluetooth antenna fitted

A complete high-fidelity system in one compact aluminum chassis — high-current Class-D amplification, a reference ESS Sabre DAC and an audiophile XMOS USB engine, with eight inputs and a 5.2-inch XC-Touch display.

Highlights

- 135 W into 4 Ω / 70 W into 8 Ω, Infineon MERUS multi-level Class-D
- ESS Sabre ES9038K2M DAC · XMOS XU316 USB engine
- PCM to 768 kHz/24-bit, native DSD512, DoP256
- Eight inputs incl. balanced XLR, MM phono and HDMI ARC

Amplifier

Output stage	Infineon MERUS multi-level Class-D
Power output	70 W into 8 Ω, 135 W into 4 Ω, 1% THD, 2 channels driven
Continuous output current	>8 A RMS
THD + Noise	<0.0065% (1 kHz, 2 × 5 W into 8 Ω)
Signal-to-noise ratio	102 dB, A-weighted
Frequency response	10 Hz – 20 kHz ±1 dB; 5 Hz – 50 kHz ±3 dB
Input sensitivity	525 mV for 55 W into 8 Ω
Voltage gain	32 dB (×40)
Crosstalk	>68 dB at 1 kHz (2 × 5 W into 8 Ω)
Damping factor	200 (output impedance 0.04 Ω)
Signal path	Fully DC-coupled; WIMA MKP film output-filter capacitors

General

Display	XC-Touch — 5.2" touch, 1280 × 416 (three meter views + full menu)
Volume range	0 to -80 dB in 1 dB steps; MUTE below -79 dB
AC input	AC ~100–120 V / 60 Hz or 220–240 V / 50 Hz, manually switched
Power consumption	<0.8 W standby, 10 W idle, 350 W max
Finish	Black anodized aluminum
Dimensions (W × H × D)	265 × 63 × 207 mm (10.4 × 2.5 × 8.1 in), incl. feet, knobs and terminals
Weight	2.2 kg (4.9 lb) net; 2.7 kg (6.0 lb) gross

Sources & Conversion

DAC	ESS Sabre ES9038K2M (stereo)
USB interface	XMOS XU316 (xcore.ai)
Digital inputs	Coaxial RCA; Optical TOSLINK (24-bit/192 kHz)
USB input	USB-C, USB Audio Class 2.0 (UAC 1.0 compatible): PCM to 768 kHz/24-bit, native DSD512, DoP256; ASIO support
USB OS support	Windows, macOS, Linux, Android, iOS
Bluetooth	Bluetooth 5.0; SBC, AAC, aptX, aptX HD, aptX LL; range up to ~15 m
Analog inputs	1 × balanced XLR, 1 × RCA line, 1 × RCA phono (MM) with ground terminal
HDMI	1 × HDMI ARC (PCM 24-bit/192 kHz)
Outputs	1 × RCA pre-out; stereo speaker binding posts (4–8 Ω). No headphone output.

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