T+A
Engineering Emotion

SYMPHONIA

STREAMING INTEGRATED AMPLIFIER

COMPENDIUM

SYMPHONIA

With the Symphonia we come full circle. This streaming integrated amplifier unites decades of innovation, craftsmanship, and engineering excellence in a design that honors our past while setting new standards for the future. Featuring cutting-edge technology paired with classic design elements like beveled aluminum front panels and hand-assembled analog VU meters, the Symphonia embodies its guiding principle, “The Future of Retro” - a perfect balance of tradition and modernity, a sonic companion for eternity.


USB IN:
07 - Take it all
Adele – 21
44/16
PRE

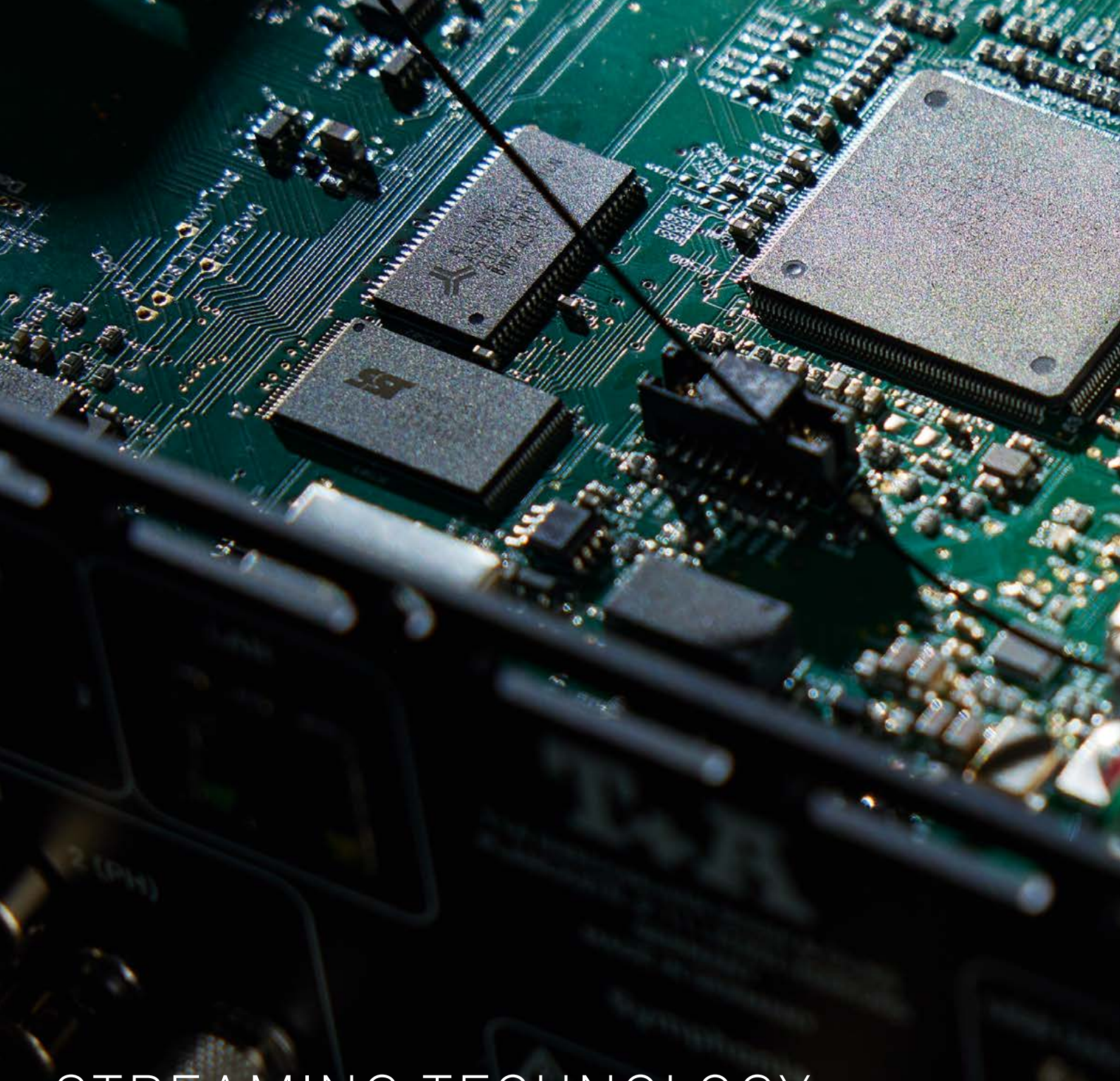
DESIGN & CONCEPT

The Symphonia was designed as a universal “one-box system,” where its versatility is only surpassed by its sound quality and design. Despite its compact dimensions, it integrates three devices into one. A virtually limitless selection of sources provides access to nearly every form of music, while unique converter architectures transform digital bits and bytes into pure analog signals. These are then amplified and delivered to loudspeakers and headphones exactly as the artist intended.

Every line, every detail is a thoughtful homage to the past and a conscious step into the future: a few precisely placed buttons and rotary/push controllers ensure intuitive access to all functions. The proportions reference our first electronics series from the 1980s, the front subtly hints at our longest-running R Series, and the interface follows our newly developed OS concept.

VERSATILE CONNECTIONS

The Symphonia embodies its “Future of Retro” philosophy not only in design but also in its connectivity, supporting a wide range of inputs that bridge the gap between decades-old analog sources and modern digital media. Its input options include analog connections for classic sources, digital, HDMI, and USB interfaces for gaming consoles and televisions, and a built-in phono stage for vinyl lovers. With dedicated preamp and subwoofer outputs, the Symphonia integrates effortlessly into existing systems or serves as the centerpiece of an entire musical environment.



STREAMING TECHNOLOGY

The third generation of our Audiophile Streaming Architecture (ASA G3) transforms the Symphonia into a central hub within the Internet of Things. Featuring modern sources, intuitive operation, and T+A's signature sound quality, ASA G3 reflects our ambition to make high-end audio effortless and accessible.

The Symphonia offers built-in access to streaming services such as Deezer, Qobuz, and Tidal, while Bluetooth and Connect services such as AirPlay and Tidal Connect allow seamless playback from mobile devices. Playback is done at the highest possible sample rate up to high resolution 384/32 (HD) PCM and native DSD 256, respectively.

CONVERTER TECHNOLOGY

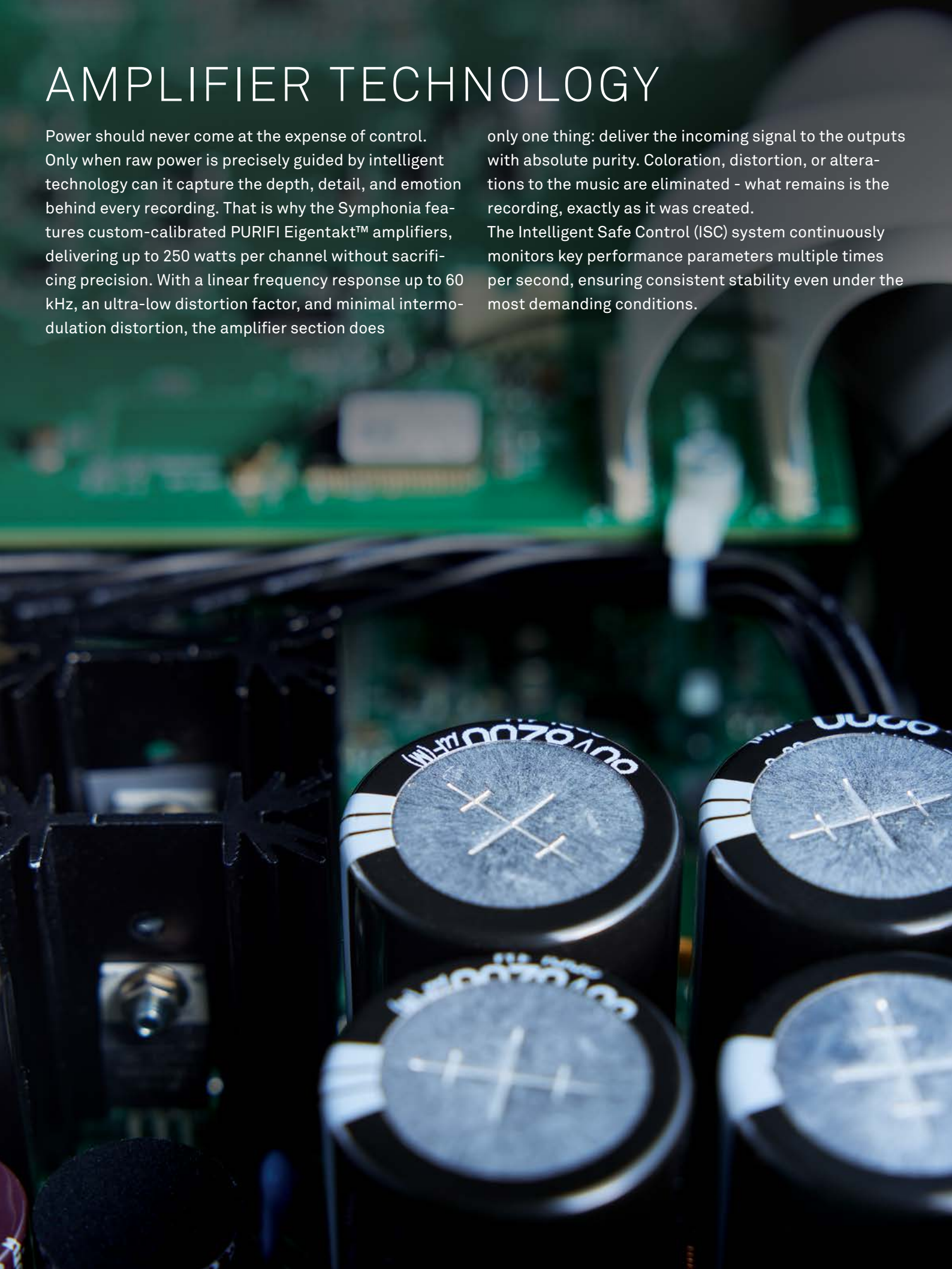
At the core of the Symphonia lies a groundbreaking converter architecture, the result of our relentless pursuit of sonic excellence and deep expertise in digital technology. The T+A True-1Bit Converter processes DSD files natively and unaltered, eliminating the common but harmful conversion to PCM. The PCM Double Differential Converter, the latest evolution of a design refined over decades, reduces noise and distortion to an absolute minimum, delivering an unprecedented combination of dynamics and precision.

Despite our focus on pure sound reproduction, we believe in offering listeners the ability to personalize their experience. Our filter algorithms allow users to adjust the tonal balance to their individual preferences, ensuring a completely customized listening experience.

AMPLIFIER TECHNOLOGY

Power should never come at the expense of control. Only when raw power is precisely guided by intelligent technology can it capture the depth, detail, and emotion behind every recording. That is why the Symphonia features custom-calibrated PURIFI Eigentakt™ amplifiers, delivering up to 250 watts per channel without sacrificing precision. With a linear frequency response up to 60 kHz, an ultra-low distortion factor, and minimal intermodulation distortion, the amplifier section does only one thing: deliver the incoming signal to the outputs with absolute purity. Coloration, distortion, or alterations to the music are eliminated - what remains is the recording, exactly as it was created.

The Intelligent Safe Control (ISC) system continuously monitors key performance parameters multiple times per second, ensuring consistent stability even under the most demanding conditions.



SPECIFICATIONS

Pre-amplifier	
Frequency response +0 /-3dB	0,5 Hz - 300 kHz
Signal / noise ratio	105 / 109 dB
THD | Intermodulation | Channel separation	< 0,002 % | < 0,002 % | > 90 dB
Nominal input sensitivity	
High level input unbalanced (RCA)	250 mV_{eff} ... 4 V_{eff} / 24 kOhm
High level input unbalanced (RCA) | Phono	250 mV_{eff} ... 4 V_{eff} / 47 kOhm / Phono 5 mV
Analogue pre-amplifier output (RCA)	nom 1 V_{eff}, max 9,5 V_{eff} / 47 Ohm
Analogue pre-amplifier output (Subwoofer)	nom 1,6 V_{eff}, max. 9,5 V_{eff} / 47 Ohm / TP 240 Hz
Power amplifier	
Output power (RMS) per channel	250 watts @ 4 ohms
	125 watts @ 8 ohms
Frequency response +0 /-3dB	1 Hz - 60 kHz
Damping factor	> 800
Headphone output	4,4 mm Pentaconn (6 Ohms)
Connections	
Digital inputs	2 x S/P-DIF: 1 x Standard Coax, 1 x optical TOS-Link (32...192 kHz / 16-24 Bit), DSD64 (DOP) 1 x USB DAC: Device-Mode up to 768 kSps (PCM), DOP256 and DSD 512*, supports asynchronous data transfer. *DSD 512 only with Windows PC with appropriate driver or a Linux PC with kernel version 4.4 or higher. 1 x HDMI ARC
Analogue inputs	1 x unbalanced Cinch 1 x unbalanced Cinch with connectable Phono preamp
D/A-Converter	
	PCM: Double-Differential-Converter with two 32-Bit Sigma-Delta D/A Converters per channel. 705,6 / 768 kSps conversion rate DSD: T+A-True-1Bit DSD D/A-Converter, up to DSD 512 (22,4 / 24,5 MHz), native bitstream
Upsampling	T+A-Signalprocessor – synchronous upsampling with 4 selectable oversampling algorithms FIR short, FIR long, Bezier/IIR, Bezier and optional NOS (non-oversampling)
Analogue output filter	Phase-linear Bessel filter 3rd order, switchable with 60 or 120 kHz cut off frequency

Frequency response	PCM 44.1 kSps	2 Hz - 20 kHz	
	PCM 48 kSps	2 Hz - 22 kHz	DSD 64: 2 Hz - 44 kHz
	PCM 96 kSps	2 Hz - 40 kHz	DSD 128: 2 Hz - 60 kHz
	PCM 192 kSps	2 Hz - 80 kHz	DSD 256: 2 Hz - 80 kHz
	PCM 384 kSps	2 Hz - 100 kHz	DSD 512: 2 Hz - 100 kHz
	PCM 768 kSps	2 Hz - 120 kHz	

Streaming Client	
Formats	MP3, AAC, OGG-Vorbis, FLAC, WAV, AIFF, ALAC, DFF, DSF
	PCM 32 ... 384 kHz, 16/24 Bit; MP3 bis 320 kBit DSD64; DSD128; DSD256
Supported media servers	UPnP 1.1, UPnP AV and DLNA kompatible Server, Microsoft Windows Media Connect Server (WMDRM10, DLNA compatible servers)
Supported streaming services	airable radio and podcasts, Tidal, Qobuz, Deezer, Amazon Music HD, highresaudio, Tidal connect, Spotify connect, Apple AirPlay2, Plays with Audirvana, Roon
Features	Auto Network Config., Internet Radio Station database (automatic updates)
Interfaces	LAN: Fast Ethernet 10/100 Base-T,
	WLAN: IEEE 802.11a/b/g/n/ac/ax 2x2 MIMO 2.412 – 2.472 GHz (2.4GHz ISM Band, 13 Channels) Channel 1 – Channel 13 North America FCC, Japan MIC, Europe ETSI 20MHz bandwidth 5.180-5.825 GHz (5GHz UNII-1/2/3 Band, 24 Channels) North America (IC and FCC): 5.180-5.600 GHz, 5.650-5.825 GHz Europe, Japan (ETSI and MIC): 5.180-5.700 GHz • max gain in 2.4 GHz band: 3.2dBi • max gain in 5 GHz band: 4.25dBi up to 17dBm (at antenna terminal).
	2x USB 2.0 Mastermode

Tuner (FM)	
Frequency range	FM Radio 87,5 – 108 MHz (Europa / US); 76 – 90 MHz (Japanese version)
Sensitivity	Mono (26dB S/N) 0,9 µV, Stereo (46 dB S/N) 40 µV
Overload margin	103 dB µV
Stereo channel separation	50 dB
RDS Functions	Stationname, Radio text

Tuner (DAB)	
Reception standard	DAB, DAB+
Freqency band	168 – 240 MHz (Band III)
Overload margin	103 dB µV
Sensitivity (BER = 10 – 4)	2,5 µV
Bluetooth	
Supported audio formats	A2DP (Audio), AVRCP 1.4 (Control) / aptX® HD, SBC, AAC
Freqency band	2,4 GHz: 2042Mhz ... 2480Mhz Max. transmission power <10 dBm (EIRP)
RC protocol	AVRCP
Mains	
Mains voltage	220-240 V, 50-60 Hz / 110-120 V, 50-60 Hz (see back panel of the Symphonia)
Normal operation (max.)	800 Watts
Standby (ECO)	< 0,5 W.
Dimensions (H x W x D)	10 x 38 x 34 cm / 3.9 x 15 x 13.4 inch
Weight	6,2 kg / 13.7 lbs
Accessories	Power cord, remote control SRC 2, 2x WLAN antenna, FM antenna
Finishes	Silver anodised aluminium (43), black anodised aluminium (42)

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