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## The Brain of Your Hi-Fi

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- Pre-Amplifier Mode
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## Rewarding Performance.

We shouldn't have favourites but CXN100 is something else. Hi-fi specialists and our listeners alike loved its predecessor CXN V2 – just wait until they hear this.

CXN100 will instantly transform a classic hi-fi stack into a system with a bright future. And because it's a network device, CXN100's firmware can be upgraded remotely, via our StreamMagic app, to receive the latest services.



## Demonstration Tracks

At Cambridge Audio we use our ears constantly, both as passionate music lovers and audio professionals looking for test examples. We test our products with all types of content and the following suggestions are our picks for a great demo experience.

1

### CHEROKEE

by **KAMASI WASHINGTON**  
*The Epic (2015)*

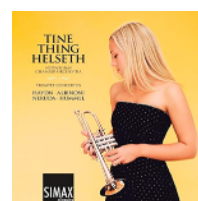


Demo your CXN100 with the same tracks our engineers used to tune it! "Cherokee" was chosen for its multi-layered complexity and timing. CXN100 doesn't lose composure when things get busy!

2

### NERUDA: TRUMPET CONCERTO IN E FLAT -1 ALLEGRO

by **TINE TING HELSETH**  
*Trumpet Concertos (2007)*



CXN100 maintains clean and precise separation between the instruments in this track. And when the trumpet appears at 0:58s, it sounds rich and smooth.

## Made by Music

We recognise that the most important component in an audio system isn't the latest amplifier, turntable, or speaker. It's the music. More importantly, it's your music.

Like our listeners, we're musicians, gig goers and fans. Music and music culture is central to our lives and always has been. That's why our common purpose at Cambridge Audio is to connect people to the power of music.

# 1

## Stunning Sound

The convenience of streamed music was once let down by its quality. That's no longer the case thanks to products like CXN100. It's designed to deliver the effortless accessibility of the digital format, but with the uncompromised sonic excellence that comes with over 55 years of designing hi-fi.

### ESS SABRE 9028Q2M DAC

Our award-winning predecessor network player, the CXN V2, had twin Wolfson DACs onboard – class leading components for the time. CXN100 has been brought bang up to date with new technology. Its single ESS 9028Q2M DAC chip is a prime example. It sounds better – and measures better – than any DAC we've previously placed in a network player.

In addition, the timing filter inside the ESS 9028Q2M is so good, that there's no post-DAC filter required, which simplifies the signal path meaning less technology getting in the way of your music.

With the addition of CXN100 to the Cambridge network player range, all our streaming products now use ESS DACs. We admire their efficiency but more importantly, we love how they sound.

### TUNED IN LONDON

Whilst the casing may look familiar, CXN100 has undergone a big revolution under the hood. We spent hundreds of hours listening and swapping out audio critical components such as capacitors and op-amps to tune the entire post-DAC analogue stage. We then measured to back up the evidence of our listening tests. The result? Increased signal-to-noise ratio, reduced distortion and a pristine digital music experience.

### BALANCED XLR CONNECTORS

When used with a compatible amplifier, such as the award-winning Cambridge CXA81, balanced XLR connections give the best analogue link possible. This offers greatly improved resistance to interference, particularly over long cable runs.

# 2

## StreamMagic

CXN100 has free and subscription hi-res streaming services on board for the best available sound quality. With Apple Airplay2 and Chromecast built-in, you can also access Apple Music, Amazon Music, BBC Sounds and more. CXN100 is also Roon Ready, consolidating your digital music browsing experience in one place.

### GEN 4 STREAMING MODULE

At our London HQ, we've been perfecting StreamMagic for more than 10 years. It's the clever partnership of hardware and software that drives all our network players. We've now moved on to the 4th generation of streaming module. It's the same one you'll find in the award-winning Evo all-in-one players.

This latest module allows you to enjoy all the latest file types and resolutions, up to 32-bit / 768kHz, DSD512 and MQA in stunning quality, as well as featuring integrated Bluetooth for easy connection.

The partnering StreamMagic app is intuitive and powerful, allowing seamless control over your music, no matter where you stream from, whether that be internet radio, Spotify, TIDAL, Qobuz, Deezer or downloaded music files.

And with OTA (Over the Air) updates, as new services or features become available, your CXN100 will just get better and better.

### MQA NOW ON BOARD

MQA stands for Master Quality Authenticated and it's a clever method of ensuring that what gets laid down in the studio streams its way to playback devices around the world with nothing missing. It's most famously integrated with TIDAL.

MQA technology folds the original hi-res file (be that WAV, FLAC etc.) to make it small enough to stream easily. These files will then play back on any device that can decode the container, but only devices with an MQA decoder onboard will 'unfold' the file to reveal the entirety of the originally recorded track.

### HIGH QUALITY INTERNET RADIO

CXN100 uses mpeg-DASH (Dynamic Adaptive Streaming over HTTP) and HLS (HTTP Live Streaming) compatibility out of the box, which allows for higher quality, more consistent live streams, creating an intimate internet radio experience. It's the same technology that ensures a smooth Netflix experience as it prioritises continuity of stream and decides quality according to available bandwidth.

More importantly for internet radio users, because the CXN100 supports DASH, your favourite radio stations will be received in higher quality streams where available.



CXN100 could well be best described as the brain of your hi-fi system. Because of its fantastic internal DAC and vast array of connections, it's also a proper sonic upgrade for other digital music sources – such as CD transports or CD players with digital outputs.

#### DIGITAL CONNECTIONS

Round the back of CXN100, you'll find 2 digital inputs (1x TOSLINK Optical & 1x S/PDIF Coaxial) for connecting digital sources. There's also an Asynchronous USB input perfect for PCs and Macs - use this connection for access to the highest resolution music (up to 32bit/768kHz & DSD512). Local files stored on a USB drive can be connected to the USB Mass Media port and Bluetooth offers easy playback from a mobile phone or similar device. Have we missed anything?!

#### PRE-AMPLIFIER MODE

CXN100 also has a digital pre-amplifier mode. What does that mean? In simple terms, CXN100 can handle volume control for any digital source connected to it. Use the all-new tactile control dial or the StreamMagic app to find your ideal level.

#### LARGE COLOUR DISPLAY

Often the display on a piece of hi-fi can seem like an afterthought. Not with CXN100. Alongside all that new internal componentry comes a bigger, brighter, 1280 x 569 TFT display to keep an eye on album artwork and unit status.



## What do Listeners Think?

CX is Simply the Best in its League!

*"I decided it was time to upgrade the hi-fi. I went all out and ordered the CXA81, CXN and CXC.*

*The level of quality in the whole setup is simply stunning. The new CX range offers fantastic detail in the mid & top end with plenty of depth and warmth in the lower end of the spectrum (without over-emphasis)."*

**CX LISTENER - GLASGOW, SCOTLAND**

## Inside Story

Our products are designed and engineered in-house, in London SE1. Right on the doorstep of Borough Market and some of the most creative and exciting developments in the music industry. Outside work we're musicians, sound engineers and above all music lovers.



**CHARLIE CROSSLEY**

Audio Hardware Engineer:

"I couldn't just put new components into CXN100 and assume it would be the right solution. We had to maintain the character of a CXN whilst bringing it up to date technically.

CXN100 is COMPLETELY NEW internally and it took careful consideration and A/B testing to ensure we got that right. As a result, CXN100 sounds refined and grown up".

Technical Specification

DAC:	ESS ES9028Q2M
USB AUDIO INPUT:	USB Type B conforms to USB Audio profile 1.0 or 2.0 (user selectable)
DIGITAL AUDIO INPUTS:	S/PDIF Coaxial and TOSLINK Optical
ANALOGUE AUDIO OUTPUTS:	Balanced XLR and unbalanced RCA analogue
DIGITAL AUDIO OUTPUTS:	S/PDIF Coaxial and TOSLINK Optical
COMPATIBILITY:	UPnP, Local USB media, Airplay 2, Bluetooth, Chromecast Built-in, Internet radio, Spotify Connect, TIDAL, Qobuz, Deezer, Roon Ready
AUDIO FORMATS:	AAC, AAC+, AIFF, ALAC, DSD (x512), FLAC, HE AAC, MP3, OGG Vorbis, WAV, WMA
ETHERNET:	10/100Mbit
WI-FI	IEEE 802.11 ac (2.4GHz / 5GHz)
STANDBY POWER CONSUMPTION:	0.5W
DIMENSIONS (W x H x D):	430 x 80 x 325mm (16.9 x 3.14 x 12.8")
WEIGHT:	3.5Kg (7.7lbs)



Related Products

CXC  
CD TRANSPORT

The compact disc format has been around long enough to include an enormous catalogue of music of all types, and to have become very affordable. Even the most evangelical devotee of music streaming will concede there's plenty of life in the little silver disc yet. CXC will let you extract every last drop of musical enjoyment from your CD collection.



CXA81  
INTEGRATED AMPLIFIER

How do you take an admired and successful integrated amplifier, one that's won respect and plaudits around the world, and make it even better? Well, if you're a Cambridge Audio engineer, you examine every aspect of the performance - and then you do everything you can to make it 'more'. More refined, more precise, more engrossing... more musical. CXA81: it's everything you loved about CXA80, but more so.

