

# aurender

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THE FUTURE OF SOUND







# A10

## Caching Network Music Server/Player with Analog Outputs

- 120GB SSD storage for caching playback
- 4TB of internal HDD storage
- Full-Linear power supply
- Balanced (XLR) / Unbalanced (RCA) Audio Outputs
- Dual 768KHz / 32bit Next Generation Flagship AK4490 DAC Chip
- Dual-Mono DACs with Discrete Linear Power Regulator
- MQA Certified DAC for Full Decode of MQA files or streaming content
- Volume adjustment from app, IR remote or front panel rotary control
- Lossless Streaming supported within Aurender Conductor App
- Dedicated USB Audio Output with Ultra Low-Noise Power Circuitry
- Award-winning Aurender Conductor App for ease and convenience
- FPGA-based Precision Data Reclocking System with sub 100fs world-class jitter-reducing clock generator
- Four Individual Toroidal Power Transformers for Server / Digital / Dual DACs
- Support for Network Attached (NAS) and USB Storage
- Remote Technical Support via Aurender Conductor App
- "Smart Copy" feature on App allows for easy transfer of music libraries



### MQA (Master Quality Authenticated)

MQA is a technology that captures the full magic of an original studio performance. Using pioneering scientific research into how people hear, MQA delivers master quality audio in a file that's small enough to stream or download. The Aurender A10 includes Full Decoder MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the "original master recording". This method of decoding delivers the highest possible sound quality available from MQA.



# W20

## Flagship Music Server & Player with 12TB storage

- 12TB hard disk drive storage with solid-state drive cache for playback.
- Isolated and damped hard disk drives in their own aluminum casing
- Supports Network-Attached Storage (NAS)
- Dual-power, fanless high-quality SMPS/battery power supply
- Innovative technology featuring battery power / dual wire / clock input
- Full range of digital audio outputs and ports for network connectivity
- Award-winning Aurender Conductor App with convenient features
- External word clock support
- Dual-wire AES/EBU mode
- Separate LiFePO4 (LFP) battery power supply for audio components
- Internal UPS to protect the W20 from unexpected power outage
- Oven-Controlled Crystal Oscillator (OCXO) for long term jitter reduction
- FPGA-based all digital phase-locked loop system
- Dedicated USB audio class 2.0 output with ultra low-noise power circuitry
- Remote internet technical support



Designed to be used with the highest performing digital-to-analog converters, the Aurender W20 is one of the few Music Players to support external word clocks used in recording studios, and dual-wire mode used by many reference digital-to-analog converters to separate transmission of left and right channels for better fidelity.

With 12TB of (6TB x 2) internal hard disk drives and one 240GB solid-state drive cache for playback, the W20 is the perfect solution for even the most extensive high-resolution music collections.







# N10

## Caching Network Music Player

up to 8TB storage

- Supports Network-Attached Storage (NAS)
- 240GB SSD storage for caching playback
  - 4TB/8TB of internal HDD storage
  - Full-Linear power supply
- Optical, COAX, BNC, AES/EBU Digital Audio Outputs
- On-the-fly precision DSD to PCM Conversion by FPGA
- Designed to keep the system noise level as low as possible
- Full range of digital audio outputs and ports for network connectivity
  - Award-winning Aurender Conductor App with convenient features
- Oven-Controlled Crystal Oscillator (OCXO) for long-term jitter reduction
  - FPGA-based All Digital Phase-Locked Loop System
- Dedicated USB Audio Class 2.0 Output with Ultra Low-Noise Power Circuitry
  - Remote internet technical support

Designed to be used with high-performance digital-to-analog converters, the Aurender N10 (and W20) is the only Music Player to support on-the-fly precision DSD to PCM conversion by FPGA. With 4TB/8TB internal hard disk drives and one 240GB solid-state drive cache for playback, the N10 is the perfect solution for even the most extensive high-resolution music collections.



# X100L

## Caching Music Server & Player up to 12TB storage

The Aurender X100L digital music player supports DSD (DSF, DFF), WAV, FLAC, ALAC, APE, AIFF, M4A and other major formats at native bit and sampling rates. Equipped with a clean USB digital audio output, Ethernet port, 6TB or 12TB of internal storage, terabytes of internal storage, 120GB solid-state drive for cached playback, the X100L is the ideal solution for playing and storing high-resolution digital music collections for those who own quality USB DACs.

- Available in 6TB or 12TB internal storage
- Cached playback of internal and NAS content
- Clean USB audio class 2.0 output
- Damped hard disk drives
- Machined aluminum case
- 3.3 inch AMOLED display
- Filter your music library by title, artist, composer, genre or file resolution / type.
- Gigabit Ethernet LAN Port for network connectivity
- Award-winning Aurender App with convenient features
- Fanless Switch-Mode Power Supply (SMPS)
- Remote internet technical support
- Optional UC100 can be used to convert USB out to SPDIF or UT100 to convert to Optical output



# N100C/N100H

## Caching Music Server & Player



The Aurender N100H Caching Music Player and Streamer is equipped with a high-performance USB digital 2.0 Audio output that will interface with your DACs USB input. The N100C has both USB and SPDIF digital coaxial (RCA-type) outputs, providing additional connectivity options with, for example, legacy DACs that don't have a USB input or to interface with active loudspeakers with built-in D/A converters. Either model can be specified with 2TB or 4TB storage capacity and silver or black finish.

- Codec Support: DSD (DSF, DFF), WAV, FLAC, ALAC, APE, AIFF, MP4 and other major formats at native bit sampling rates
- Choice of 2TB or 4TB HDD internal storage
- Available with USB output (N100H) or USB and SPDIF (N100C)
- 120GB SSD caching playback of internal or connected storage content
- 3.0 inch AMOLED display. Readout selectable: alphanumeric, blue or amber meter
- Uses award-winning Aurender Conductor App for all music management functions
- USB output can be converted to Optical (Toslink) using UT100 (optional)
- Gigabyte ethernet LAN port for network connectivity
- Full-linear power supply
- USB Audio Class 2.0 output (N100H/N100C)
- SPDIF digital output using coaxial RCA-type jack (N100C only)
- Machined aluminium casework
- Detachable IEC power cord
- Remote technical support from app
- Silver or black anodised finish



N100H



N100C





# X725

## DAC/Amplifier

The Aurender X725 is an all-in-one DAC, preamplifier and power amplifier designed to simplify the task of configuring and setting up a High-Resolution audio system, without the "Audiophile clutter". As the DAC, preamplifier and power amplifier are conveniently built-in, all you need to do is to connect the speakers to the Aurender X725. Simply have a USB cable, power cord, Ethernet cable and a pair of speaker cables ready and you are all set!



- Elegant machined aluminum chassis
- Designed for quiet operation
- USB interface for high-quality audio
- Auxiliary optical SPDIF input (useful for connecting additional audio sources, including CD players.)
- Supports all major high-resolution audio formats
- Plays up to 24/192kHz, DSD64/128 in native mode
- Power rating: 125W per channel at 8 ohms
- IR remote control, as well as easy iPad or Android phone app
- Volume control and music selection with Aurender Conductor App
- Designed to be used only with Aurender N100H and X100L music servers

# X-PAC

## Easy-to-Set-Up Component System



**X725**  
DAC/Amplifier

**X100L**  
Caching Music Server & Player

Just add speakers to the Aurender X-PAC or N-PAC to create an easy-to-set-up audio system that makes browsing your library or streaming audio fun and easy. Enjoy audiophile sound quality without the clutter!

# N-PAC

## Easy-to-Set-Up Component System



**X725**  
DAC/Amplifier

**N100H**  
Caching Music Server & Player

# UT100

USB Audio 2.0 to SPDIF (OPTICAL) Converter



Precision Asynchronous USB Audio 2.0 to SPDIF (OPTICAL) converter for use with Aurender music servers with USB audio output only.

1. Use when DAC does not have USB Audio 2.0 input
2. Use when DAC may need a special driver for USB Audio 2.0 input.

- Recommended usage is with Aurender Music Servers only. N100H / X100. We do not provide drivers for PC/Mac.
- Drivers are not required when using with Aurender Music Servers.



# UC100

USB Audio 2.0 to SPDIF (COAX) Converter



Precision Asynchronous USB Audio 2.0 to SPDIF (COAX) converter for use with Aurender music servers with USB audio output only.

1. Use when DAC does not have USB Audio 2.0 input
2. Use when DAC may need a special driver for USB Audio 2.0 input.

- Recommended usage is with Aurender Music Servers only. X100L / N100H / A10. We do not provide drivers for PC/Mac.
- Drivers are not required when using with Aurender Music Servers.





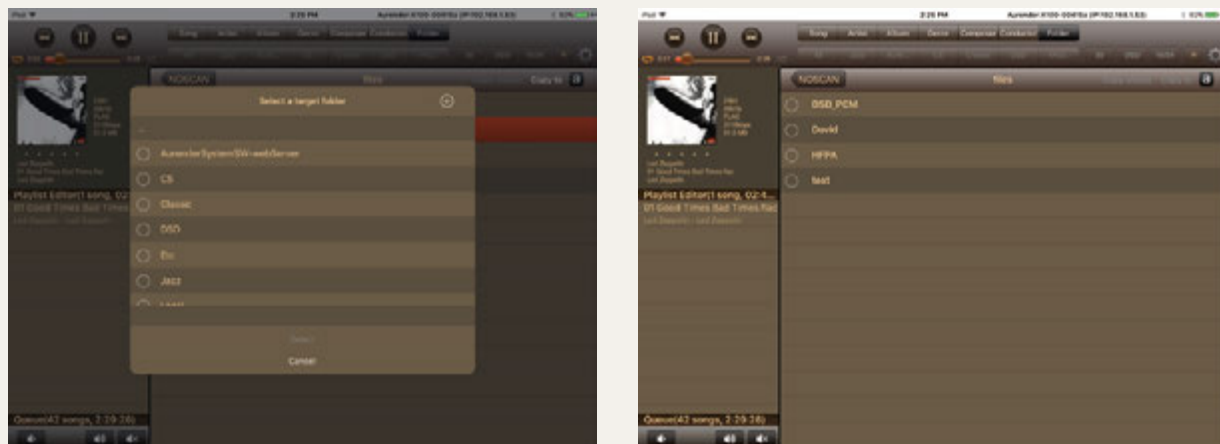
# Conductor App

Aurender comes with a dedicated app which has been specially developed for Aurender to deliver the ultimate in convenience and functionality. The Aurender iPad and Android app have been developed with a huge music database in mind, and providing fast browsing / searching of your favorite music.

- Intuitive user interface
- One-click addition of the music to the Play Queue
- Filter your music library by title, artist, composer, genre or file resolution / type.
- DSD, 16/24bit, MQA sampling rate filter
- Star Rating filter
- Supports front and back of album cover
- Gapless playback
- "Go-To-Artist" and "Go-To-Album" feature
- TIDAL full-resolution / MQA music streaming service superbly integrated (separate subscription required)
- Power search (64bit iPad only)
- Both iPad app and 'Lite' Android app for smartphone supported.
- Android app will run on tablets but the UI of the app is optimized for Android smartphones. (Supports Android device with OS of Kit-Kat or later versions.)

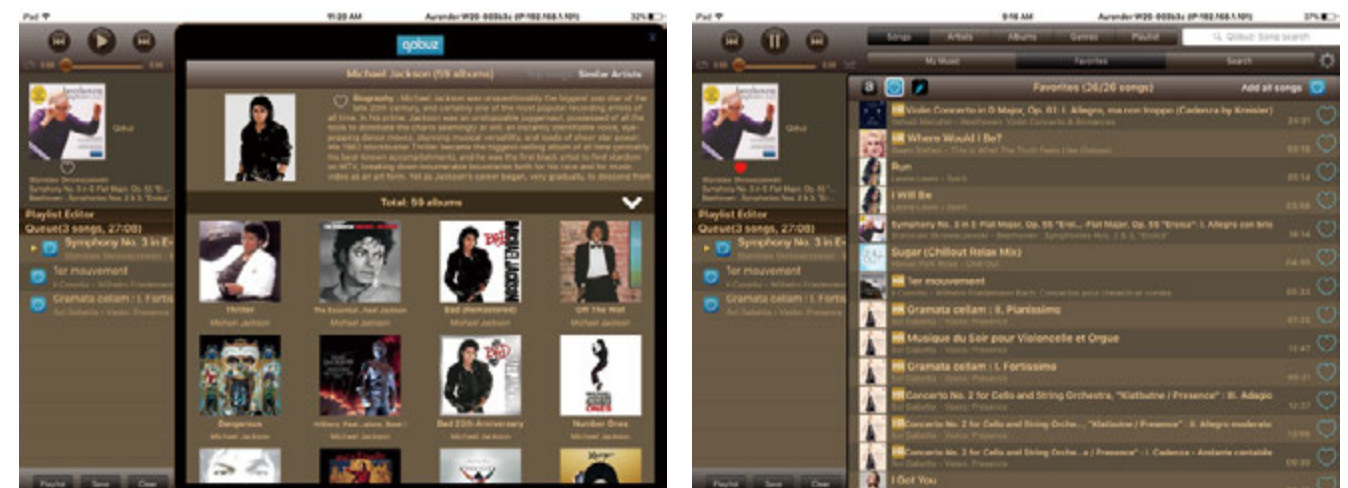
## Smart Copy

The Smart Copy feature allows, within the Conductor App, user selected music to be imported into the Aurender's internal HDD. You can now transfer content from either a NAS or USB drive without having to use a PC or Mac. The Smart Copy process ensures all metadata, folders and files are transferred together. And Smart Copy allows you to chose the designated target folder within the Aurender HDD making your music library easy to organize in a way that suits you. This new feature is backward compatible with any model Aurender streamer / player.



## Supports Streaming

Enjoy lossless streaming from the following streaming services – Tidal, Qobuz, Bugs and Melon as direct access is provided though Aurender Conductor on your iPad (check availability of service in your country, subscription required).








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Music Servers / Streamers

Line For 2018

Music Servers & Streamers Selection Table

| Model | User   |
|-------|--|
| W20   | For use with DACs providing Dual AES/EBU and Separate Master Clock connections |
| N10   | Legacy DAC users with SPDIF connection   |
| A10   | Users without a DAC  |
| X100L | USB DAC users (up to 12TB internal storage)                                    |
| N100H | USB DAC users (up to 4TB internal storage)                                     |
| N100C | For use with DACs having a SPDIF Coax input in addition to USB                 |

|                          | W20   | N10  | A10   | X100L   | N100C/N100H   |
|--------------------------|---|--|---|---|---|
|                          |  |  |  |  |  |
| Width                    | Full-Size (430mm / 16.93in)   | Full-Size (430mm / 16.93in)  | Full-Size (430mm / 16.93in)   | Half-Size (215mm / 8.46in)  | Half-Size (215mm / 8.46in)  |
| Height                   | 106mm / 4.17in  | 83mm / 3.27in  | 55mm / 2.2in  | 83mm / 3.27in   | 55mm / 2.2in  |
| Length                   | 370mm / 14.6in  | 353mm / 13.9in   | 353mm / 13.9in  | 355mm / 14.0in  | 355mm / 14.0in  |
| Weight                   | 19kg / 41.89lbs   | 12.26kg / 27.03lbs   | 10.2kg / 22.5lbs  | 7.5kg / 16.53lbs  | 4.6kg / 10.14lbs  |
| SSD for System and Cache | 240G  | 240G   | 120G  | 120G  | 120G  |
| Music Storage            | 12TB HDD (3.5" 6TB x 2)   | 4TB / 8TB HDD  | 4TB (2.5" HDD x 1)  | 6TB / 12TB (3.5" 3TB x 2 or 6TB x 2)  | 2TB / 4TB (2.5" HDD x 1)  |
| Power                    | Battery + SMPS  | Full-Linear  | Full-Linear   | SMPS  | Full-Linear   |
| Display                  | 3.7" Dual AMOLED  | 3.3" Dual AMOLED   | 3.0" AMOLED   | 3.3" AMOLED   | 3.0" AMOLED   |
| Digital Audio Output     | USB, COAX, Optical, BNC, AES/EBU x 2 (Dual-Wire)                                  | USB, COAX, Optical, BNC, AES/EBU   | USB   | USB   | USB (N100H)<br>USB and SPDIF on RCA Coaxial Jack (N100C)                            |
| Digital Audio Input      | -   | -  | SPDIF Optical   | -   | -   |
| Analog Audio Output      | -   | -  | Balanced (XLR) / Unbalanced (RCA)   | -   | -   |
| Master Clock Input       | Word Clock or Master Clock Input (BNC)  | -  | -   | -   | -   |
| Other I/O                | Gigabit Ethernet, USB Port x 2  | Gigabit Ethernet, USB Port x 2   | Gigabit Ethernet, USB Port x 2  | Gigabit Ethernet, USB Port x 2  | Gigabit Ethernet, USB Port x 2  |
| Finish                   | Silver or Black   | Silver or Black  | Silver or Black   | Silver  | Silver or Black   |
| Optional MQA Software    | Yes   | Yes  | n/a   | Yes   | Yes   |

| X725  |  |
|---|--|
|  |  |
| Width   | Half-Size (215mm / 8.46in)   |
| Height  | 55mm / 2.2in   |
| Length  | 355mm / 14.0in   |
| Weight  | 4.7kg / 10.4lbs  |
| User Interface  | IR Remote Control<br>Aurender App (via X100L / N100H)<br>Volume Knob |
| Volume Control Range  | 95dB – 0dB   |
| Output Power  | 100W x 2 / 0.01% THD+N 8 ohms  |
| Frequency Response  | 20Hz – 20kHz (0.5dB)   |
| Digital Inputs  | 1 Optical SPDIF / 1 Audio 2.0 USB                                    |
| Analog Out  | Stereo Speaker Output  |
| Finish  | Silver   |

| UC100  |   |
|--|---|
|  |   |
| Width  | 145mm / 5.7in                             |
| Height   | 30mm / 1.18in                             |
| Length   | 54mm / 2.12in                             |
| Weight   | 280g / 0.62lbs                            |
| Input  | High-Speed USB 2.0<br>USB Audio Class 2.0 |
| Output   | SPDIF (Coaxial RCA 75 ohms)               |
| Supported Word Lengths   | up to 24-bit                              |
| Supported Sampling Rates   | up to 192kHz                              |
| Supported DSD  | DSD64 supported with DoP                  |
| Power  | USB VBUS 5V/200mA                         |
| Finish   | Silver                                    |

| UT100   |   |
|---|---|
|  |   |
| Width   | 55mm / 2.16in                             |
| Height  | 45mm / 1.77in                             |
| Length  | 25mm / 0.98in                             |
| Weight  | 100g / 0.22lbs                            |
| Input   | High-Speed USB 2.0<br>USB Audio Class 2.0 |
| Output  | SPDIF (OPTICAL)                           |
| Supported Word Lengths  | up to 24-bit                              |
| Supported Sampling Rates  | up to 192kHz                              |
| Supported DSD   | DSD64 supported with DoP                  |
| Power   | USB VBUS 5V/150mA                         |
| Finish  | Silver                                    |

Specifications subject to change.



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[www.aurender.com](http://www.aurender.com)

Aurender Inc. Dongan-gu, Anyang-si Beolmal-ro 126 OBIZ Tower 1612, Gyungi-Do, South Korea

Aurender America Inc. 17911 Sky Park Circle Suite H Irvine, CA 92614, USA

Aurender Europe SL. Plaza de Santiago 9, 2A 20014 San Sebastián, Spain