



# 2023-2024 CATALOG

High-fidelity  
quality products,  
designed  
and carefully  
hand-made  
in France.





The ATOLL Electronique company was founded in September 1997 by Stéphane & Emmanuel DUBREUIL. At that time, the observation revealed a lack of affordable audiophile products.

They decided then to establish ATOLL Electronique in Brécey, in Normandy, to create, develop, and sell a line of integrated amps, preamps, CD players, Streamers, DAC, etc; devices incredibly musical, reliable, and customisable.

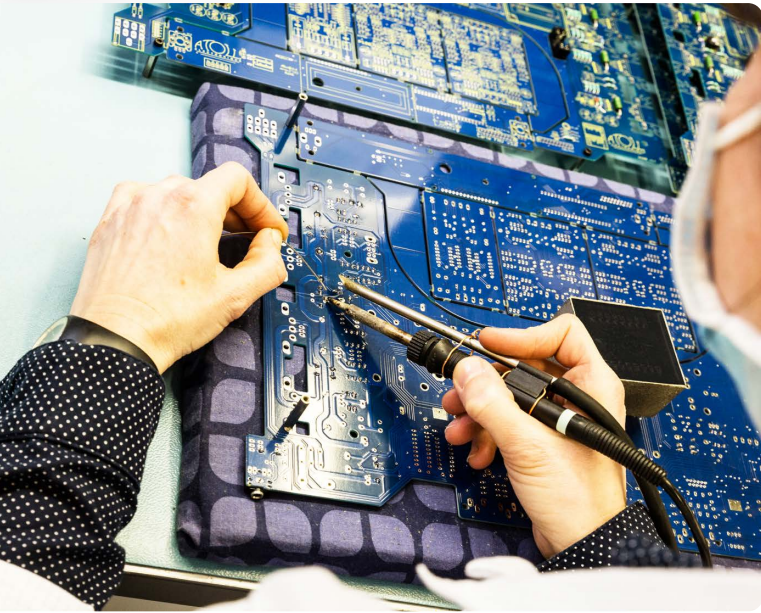
From the design stage, each device is studied by corroborating measurements and listening. We design state-of-the-art balanced audio stages for all our products.

With little or no feedback, the systematic choice of stages with discrete components allows fine and precise adjustments of all parameters.

In addition, the key components are selected after long hours of research and comparison in order to offer you the best possible musicality.

Our products are distributed in France, through a network of around 100 points of sale, and abroad in around 40 countries to offer demonstrations and exemplary implementation of your Hi-Fi system.





All our models are fully assembled, tested and finalized in our workshops in Normandy, ensuring high reliability and complete control of the manufacturing process. The printed circuits are wired by hand, each electronic board is individually controlled and measured before assembly, in addition, a complete test is carried out on each finished product before packaging.

ATOLL offers a very wide range of products including CD players, drives, amplifiers, converters, streamers, preamplifiers, phono, among others. The ATOLL ranges start with the Midi-line and extend to the flagships of the brand, constituting the 400 series. This 400 series range is the subject of a specific catalog.

All our models are available in anodized silver or black brushed aluminium finish.

**MA100 + MS120**  
black brushed  
anodized aluminium finish.



**PR400 Signature**  
silver brushed anodized  
aluminium finish.



**SDA300 Signature**  
silver brushed anodized  
aluminium finish.

The philosophy of ATOLL Electronique is much more than the use of efficient diagrams: it is a coherent approach and a rational design, the implementation of components of the highest quality while respecting an exceptional quality/price ratio.

Our choice fell on the use of metal chassis and front panels, discrete component circuits polarized in class A for the preamplifiers and in class A/B for the amplifiers. The power transistors we use are MOS-FETs because they offer the advantage of the highest efficiency with outstanding audio performance.

The reward for our efforts: musicality, fluidity, richness of timbre and sound detail, an extraordinarily realistic liveliness for a faithful reproduction of your favorite music.

It is important to enhance that the enthusiasm of a vast panel of customers since the creation of ATOLL has unanimously validated our efforts, an enthusiasm confirmed by numerous distinctions awarded by critics in France and abroad.



The Research and Development department continuously monitors the development of new products and the improvement of current ones.



Our auditorium is intended for comparative listening and acoustic measurements. The development is done on a panel of very different high-end speakers, with a selection of the best cables on the market.

## A BUNDLE OF CONVERGING QUALITIES

The Signature Series CD players have taken advantage of many innovations, whether it's in terms of power supplies or audio and conversion stages. In addition, all of these devices can now accommodate a 24 bits/192 kHz DAC board based on the player's internal converter. The USB input is asynchronous.

### COMMON FEATURES TO SIGNATURE SERIES SOURCES AND MD100

- Brushed aluminium front panel.
- Original TEAC central CD mechanics.
- Compatible pure audio CD player: CD, CD-R, CD-RW, MP3, WMA-AAC.
- Linear power supply for digital stages with specific 30 VA transformer.
- Separate linear power supply for audio stages.
- 1 analog output and 2 digital outputs (1 coaxial and 1 optical).
- Global remote control ATOLL.

### CHARACTERISTICS SPECIFIC TO THE SIGNATURE SERIES

- Double-sided printed circuit boards with nickel/gold finish.
- Engraved logo.
- Low consumption Oled screen.
- Display of CD-Text.
- Differential audio output stages with discrete components polarized in class A.
- Optional 24 bits/192 kHz digital board for all Signature Series CD players.



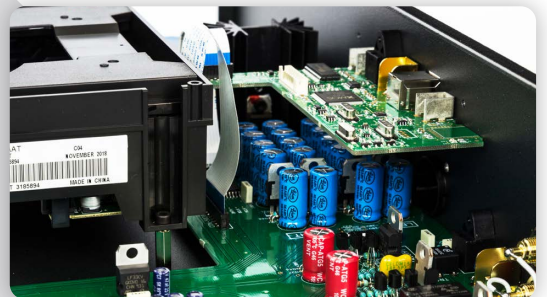
ATOLL Signature series global remote control.

### DC200

Digital option board (only for Signature series).

The Signature range CD players can be optionally equipped with a board with three digital inputs:

- 1 coaxial input (S/PDIF - 24 bits/192 kHz).
- 1 optical input (S/PDIF - 24 bits/192 kHz).
- 1 asynchronous USB input (XMOS USB interface with specific program designed for ATOLL).
  - 16 bits to 24 bits PCM up to 192 kHz.



DC200 board on CD200 Signature.

### Serial connectivity (CD50 Sig to CD200 Sig)

- 1 RCA Stereo output.
- 2 digital outputs (1 coaxial and 1 optical).



CD200 Signature rear view.



CD200 Signature black aluminium version.

## MD100 - MINI CD player

- 4 mm brushed aluminium front panel.
- 3 regulated power supplies.
- Separate 3,2 VA transformer for the audio stages.
- Total of capacitors: 10 411  $\mu\text{F}$ .
- 7-segment display.
- BURR BROWN PCM5102 converter:
  - 24 bits/192 kHz. – Dynamic: 112 dB. – Signal/Noise ratio: 112 dB.



## CD50 Signature

- 4 mm brushed aluminium front panel.
- 6 regulated power supplies.
- Separate 4,6 VA transformer for the audio stages.
- Total of capacitors: 8 192  $\mu\text{F}$ .
- BURR BROWN PCM1793 converter:
  - 24 bits/192 kHz. – Dynamic: 113 dB. – Signal/Noise ratio: 113 dB.



## CD80 Signature

- 4 mm brushed aluminium front panel.
- 8 regulated power supplies including a low noise specific for the converter.
- Separate 4,6 VA transformer for the audio stages.
- Total of capacitors: 12 892  $\mu\text{F}$ .
- BURR BROWN PCM1793 converter:
  - 24 bits/192 kHz. – Dynamic: 113 dB. – Signal/Noise ratio: 113 dB.



## CD100 Signature

- 4 mm brushed aluminium front panel.
- 8 regulated power supplies including a low noise specific for the converter.
- Separate 10 VA transformer for the audio stages.
- Total of capacitors: 13 032  $\mu\text{F}$ .
- Current-voltage conversion stages designed by ATOLL based on bipolar transistors.
- BURR BROWN PCM1796 converter:
  - 24 bits/192 kHz. – Dynamic: 123 dB. – Signal/Noise ratio: 123 dB.



## CD200 Signature

- 8 mm brushed aluminium front panel.
- 8 regulated power supplies including a low noise specific for the converter.
- Separate 10 VA transformer for the audio stages.
- Total of capacitors: 13 032  $\mu\text{F}$ .
- Current-voltage conversion stages designed by ATOLL based on bipolar transistors.
- BURR BROWN PCM1792 converter:
  - 24 bits/192 kHz. – Dynamic : 129 dB. – Signal/Noise ratio: 129 dB.



## DR100 Signature - CD Drive

- 4 mm brushed aluminium front panel.
- Coaxial and optical outputs.
- Total of capacitors: 14 141  $\mu\text{F}$ .
- Specific anti-vibration treatment for CD mechanics.
- Optimized motherboard for jitter reduction.
- Isolation of digital signals by LVDS circuit (signal reformatting).

## DR200 Signature - CD Drive

- 8 mm brushed aluminium front panel.
- Coaxial, optical and AES/EBU outputs.
- Total of capacitors: 22 100  $\mu\text{F}$ .
- Digital signal isolation with a specific 1: 1 transformer dedicated to S/PDIF and AES/EBU outputs.
- Special low noise linear power supply dedicated to digital stages.
- Specific anti-vibration treatment for CD mechanics and chassis.
- Optimized motherboard for jitter reduction.
- Isolation of digital signals by LVDS circuit (signal reformatting).

# IN ~ INTEGRATED AMPS & PREAMPS

## AN OPTIMIZED CIRCUIT CONCEPT

ATOLL integrated amplifiers are made with great care: we select the finest components to achieve the highest level of sound performance. To preserve the integrity of the most subtle musical signals, the design of proprietary ATOLL circuits is used in this rigorous search for perfection.

Our balanced MOS-FET amplifier circuits offer excellent harmonic degradation and have no memory effect. Every moment, the current is immediately delivered to your speakers. The musicality of ATOLL amplifiers is a result of this secret.

## COMMON FEATURES TO INTEGRATED SIGNATURE SERIES AMPS/PREAMPS

- Brushed aluminium front panel with engraved logo.
- Discrete component audio stages.
- MKP technology link capacitors.
- High performance heat sinks, direct thermal coupling.
- Double-sided printed circuit boards with nickel/gold finish.
- Polarization of output stages in class A/B.
- Thermal protection.
- ATOLL global remote control.
- Optional DAC board: same as the one included in the IN300.
- Optional phono board: P50 or P100, can be combined with the DAC board.

### DA100

Optional S/PDIF board (only IN50 Sig, IN80 Sig, IN100 Sig)

- Audio converter AKM-AK4490.
  - Dynamic: 120 dB
  - Signal/noise ratio: 120 dB.
- 2 coaxial inputs (24 bits/192 kHz).
- 2 optical inputs (24 bits/192 kHz).

### DA200

Optional DAC board (IN50 Sig, IN80 Sig, IN100 Sig, IN200 Sig)

- Audio converter AKM-AK4490:
  - Dynamic: 120 dB.
  - Signal/noise ratio: 120 dB.
- 2 coaxial inputs (24 bits/192 kHz).
- 2 optical inputs (24 bits/192 kHz).
- 1 Bluetooth® receiver.
- 1 asynchronous USB input. (XMOSS)
- USB interface with specific program designed for ATOLL.
  - PCM: 32 bits/384 kHz.
  - DSD: 64 and 128.



DA200 DAC board on IN100 Signature.

### Connectivity (IN50 Sig, IN80 Sig, IN100 Sig, IN200 Sig, IN300)

- 5 audio inputs (RCA):
  - AUX (or optional P50 / P100 phono stage).
  - CD
  - TUNER
  - DVD
  - TAPE (IN + OUT)
  - 1 BY-PASS (used as power amplifier).
- 2 analog preamp outputs (for bi-amplification or to connect a subwoofer).
- 1 Ø 6,35 mm headphone jack socket.
- 1 Trigger output (12V).



IN100 Signature rear view.



IN100 Signature black aluminium version.



## IN50 Signature

- 4 mm brushed aluminium front panel.
- 2×50 Wrms / 8Ω.
- Toroidal transformer of 170 VA.
- Total of capacitors: 17 874 μF.
- ALPS motorized potentiometer.
- Filter capacitors: 2×6800 μF.
- Single push-pull MOS-FET power stage.



- Monitoring loop.
- Controllable with the ATOLL global remote control.

## IN80 Signature

- 4 mm brushed aluminium front panel.
- 2×80 Wrms / 8Ω.
- Toroidal transformer of 340 VA.
- Total of capacitors: 31 474 μF.
- ALPS motorized potentiometer.
- Filter capacitors: 4×6800 μF.
- Single push-pull MOS-FET power stage.
- Monitoring loop.
- Controllable with the ATOLL global remote control.



## IN100 Signature

- 4 mm brushed aluminium front panel.
- 2×100 Wrms / 8Ω.
- 2 toroidal transformers of 340 VA each.
- Total of capacitors: 31 474 μF.
- ALPS motorized potentiometer.
- Filter capacitors: 4×6800 μF.
- Single push-pull MOS-FET power stage.



- Monitoring loop.
- Controllable with the ATOLL global remote control.

## IN200 Signature

- 8 mm brushed aluminium front panel.
- 2×120 Wrms / 8Ω.
- 2 toroidal transformers of 340 VA each.
- Total of capacitors: 62 853 μF.
- Filter capacitors: 8×6800 μF high quality, low ESR specific for ATOLL.
- Specific low consumption 5 VA power supply for the digital stages.
- MOS-FET double push-pull power stage.
- 2 volume attenuators: 1 per channel to maintain the dual mono architecture.



- Shielded MKP Mundorf capacitors.
- Possibility to adjust and memorize the balance.
- ATOLL global remote control delivered as standard.

## IN300

- 8 mm brushed aluminium front panel.
- 2×150 Wrms / 8Ω.
- 2 toroidal transformers of 440 VA each.
- Total of capacitors: 86 400 μF.
- Filter capacitors: 12×6800 μF high quality, low ESR specific for ATOLL.
- Specific low consumption 5 VA power supply for the digital stages.
- 2 volume attenuators: 1 per channel to maintain the dual mono architecture.



- Gradual start-up to avoid consumption peak.
- ABSOLUE CREATIONS high-end cable on the main parts.
- MOS-FET triple push-pull power stage.
- Shielded MKP Mundorf capacitors.
- Possibility of adjusting and memorizing the balance.
- ATOLL global remote control delivered as standard.



## POWER AND MODULARITY

ATOLL has a variety of preamplifiers and power amplifiers to choose from. A broad range of possible combinations is provided along with a significant source of improvement. Our power amplifiers can be paired with either an integrated amplifier or an ATOLL preamplifier. They are capable of being bridged in mono mode and cascaded in multi-amplification mode.

### COMMON FEATURES TO SIGNATURE SERIES POWER AMPLIFIERS

- Balanced audio stages with discrete components.
- MOS-FET power transistor.
- Polarization of output stages in class A/B.
- Double-sided printed circuit boards with nickel / gold finish.
- Bridgeable in mono block.
- 12V Trigger input.

### COMMON FEATURES TO SIGNATURE SERIES POWER PREAMPLIFIERS

- Brushed aluminium front face with engraved logo.
- Balanced audio stages with discrete components.
- MKP technology link capacitors.
- Toroidal transformers.
- Double-sided printed circuit boards with nickel / gold finish.
- BY-PASS input.
- 2 analog pre-amp outputs.
- Optional DAC board: same as the one included in the IN300.
- Optional phono board: P50 or P100, that can be combined with the DAC board.
- 12V Trigger output.

#### Optional DAC board

- AKM-AK4490 audio converter.
- 2 coaxial inputs (24 bits/192 kHz).
- 2 optical inputs (24 bits/192 kHz).
- 1 asynchronous USB input (XMOS USB interface with specific program designed for ATOLL).
  - PCM: 32 bits/84 kHz.
  - DSD: 64 and 128.
- 1 Bluetooth® receiver.



DAC board on **PR300 Signature**.

#### Connectivity in PR200 Sig and PR300 Sig

- 5 audio inputs (RCA):
  - AUX (or phono stage optional P50/P100).
  - CD
  - TUNER
  - DVD
  - TAPE (IN + OUT)
  - 1 BY-PASS.
- 2 analog preamp outputs (for bi-amplification or to connect a subwoofer).
- 1 Ø 6,35 mm headphone jack socket.
- 1 Trigger output (12V).



**PR300 Signature** rear view.



**PR300 Signature** black aluminium version.

**PR200 Signature - Preamplifier**

- 4 mm brushed aluminium front panel.
- Toroidal transformer of 340 VA.
- Total of capacitors: 31 918  $\mu$ F.
- ALPS motorized potentiometer.
- Monitoring loop.
- Controllable with the ATOLL global remote control.



**PR300 Signature - Preamplifier**

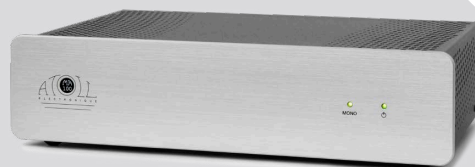
- 8 mm brushed aluminium front panel.
- 340 VA toroidal transformer.
- Total of capacitors: 62 000  $\mu$ F.
- Specific low consumption 5 VA power supply for the digital stages.
- Filter capacitors: 8x6800  $\mu$ F high quality, low ESR specific for ATOLL.
- 2 volume attenuators: 1 per channel to maintain the dual mono architecture.



- Low consumption OLED display.
- Shielded MKP Mundorf capacitors.
- Possibility of adjusting and memorizing the balance.
- ATOLL global remote control delivered as standard.

**MA100 - Mini power amplifier**

- 4 mm brushed aluminium front panel.
- 2x60 Wrms / 8 $\Omega$ .
- Toroidal transformer of 170 VA.
- Total of capacitors: 16 600  $\mu$ F.
- Filter capacitors: 2x6800  $\mu$ F.



- Bridgeable in mono block.
- 12V Trigger input.

**AM100 Signature - Power amplifier**

- 4 mm brushed aluminium front panel.
- 2x100 Wrms / 8 $\Omega$
- 2 toroidal transformers of 340 VA each.
- Total of capacitors: 32 247  $\mu$ F.
- Filter capacitors: 4x6800  $\mu$ F.



**AM200 Signature - Power amplifier**

- 8 mm brushed aluminium front panel.
- 2x120 Wrms / 8 $\Omega$ .
- 2 toroidal transformers of 340 VA each.
- Total of capacitors: 57 280  $\mu$ F.
- Filter capacitors: 8x6800  $\mu$ F high quality, low ESR specific for ATOLL.
- MOS-FET double push-pull power stage.
- Full dual mono architecture.



**AM300 - Power amplifier**

- 8 mm brushed aluminium front panel.
- 2x150 Wrms / 8 $\Omega$ .
- 2 toroidal transformers of 440 VA each.
- Total of capacitors: 83 300  $\mu$ F.
- Filter capacitors: 12x6800  $\mu$ F high quality, low ESR specific for ATOLL.
- MOS-FET triple push-pull power stage.
- Full dual mono architecture.



- Balanced XLR inputs and RCA lines.

**AV100 - 3 channel power amplifier**

- 4 mm brushed aluminium front panel.
- 3x100 Wrms / 8 $\Omega$ .
- 2 toroidal transformers of 340 VA each.
- Total of capacitors: 44 210  $\mu$ F.
- Optional 12V Trigger input.

**AV500 - 5 channel power amplifier**

- 4 mm brushed aluminium front panel.
- 2x100 Wrms / 8 $\Omega$ , 5x85 Wrms / 8 $\Omega$ .
- 2 toroidal transformers of 340 VA each.
- Total of capacitors: 73 000  $\mu$ F.
- Optional 12V Trigger input.

## THE HIGH DEFINITION OF THE STUDIOS FINALLY ACCESSIBLE

Whether it is: listening to high definition streaming music, locally from your network, from a USB key, a hard drive, Bluetooth®, your favorite internet radio stations, our network players are totally adapted to the current needs related to the reading of dematerialized music files.

They embed a high performance converter, can be used as a pure source or as a preamplifier; our "all-in-one" SDA200 Signature is additionally equipped with the amplifier part of the IN200 Signature.

### COMMON FEATURES TO MS120 - ST200, ST300, SDA200 & SDA300 SIGNATURE

- Brushed aluminium front panel.
- 5" TFT LED color graphic display (800\*480).
- Preamp stages with discrete components without feedback in pure class A.
- Analog volume management (switched resistors) that can be BY-PASSed.
- Specific power supply dedicated to audio stages.
- Specific power supply dedicated to the digital analog audio converter.
- Accepted resolutions: PCM up to 24 bits/192 kHz and DSD64 and DSD128.
- Playback of audio files on the network (DLNA and UPnP compatible) with a wired RJ45 or Wifi connection.
- Display of names, tags, resolutions and album covers.
- Gapless system.
- Ability to create playlists.
- USB-A file systems: FAT32, NTFS, EXT2/3/4.
- ATOLL "streamer" remote control supplied as standard.
- ATOLL Signature 2 app. (Android and IOS).



"ATOLL Signature 2" app.

### ONLINE MUSIC BROADCASTING SERVICES

Direct access from the ATOLL Signature 2 application to streaming sites: QOBUZ, TIDAL, TIDAL CONNECT, DEEZER, SPOTIFY, HIGHRESAUDIO.



### POSSIBLE EXTERNAL CONTROLS

ROON, AUDIRVANA, USB-A (FAT32, exFAT, NTFS, EXT2 / 3/4), UPNP, DLNA, BLUETOOTH®.



### INTERNET RADIOS

In WIFI or RJ45 connection, access to internet radios by the Airable system in high definition. Choice of tens of thousands of radio stations available, access to podcasts...



### COMPATIBLE AUDIO FORMATS

MQA, DSD, LPCM, FLAC, ALAC, AIFF, WMA, OGG, WAV, AAC, MP3. Accepted resolutions: PCM up to 24 bits/192 kHz and DSD64 and DSD128.



SDA200 Signature black aluminium version.

**STREAMERS - DAC - PREAMPLIFIERS**

**Mini-Streamer MS120**

- 4 mm brushed aluminium front panel.
- 4,6 VA transformer dedicated to audio stages.
- Total of capacitors: 5 435  $\mu$ F.
- High quality MKP technology link capacitors.
- BURR BROWN PCM1796 converter:
  - Dynamic: 123 dB.
  - Signal/Noise ratio: 123 dB.



**ST200 Signature**

- 8 mm brushed aluminium front panel.
- 10 VA low noise linear transformer dedicated to audio stages.
- Total of capacitors: 27 000  $\mu$ F.
- CLARITY CAP ESA series MKP audio link capacitors.
- BURR BROWN PCM1792 converter:
  - Dynamic: 129 dB.
  - Signal/Noise ratio: 129 dB.



**ST300 Signature**

- 8 mm brushed aluminium front panel.
- 2 low-noise 10 VA linear transformers dedicated to the audio stages.
- Total of capacitors: 69 000  $\mu$ F.
- CLARITY CAP ESA series MKP audio link capacitors.
- Double converter BURR BROWN PCM1792:
  - Dynamic: 132 dB.
  - Signal/Noise ratio: 132 dB.



- Balanced XLR and RCA line outputs.
- Integral double MONO structure.

**ALL IN ONE (STREAMERS - DAC - AMPLIFIERS)**

**SDA200 Signature**

- 8 mm brushed aluminium front panel.
- 2 toroidal transformers of 340 VA each.
- Total of capacitors: 65 800  $\mu$ F.
- 2x120 Wrms / 8 $\Omega$ .
- MOS-FET double push-pull power stage.
- High quality, MKP technology link capacitors, shielded in a metal box.
- Filter capacitors: 8x6800  $\mu$ F high quality, low ESR specific for ATOLL.
- BURR BROWN PCM1792 converter:
  - Dynamic: 129 dB.
  - Signal/Noise ratio: 129 dB.



**SDA300 Signature**

- 8 mm brushed aluminium front panel.
- 2 toroidal transformers of 440 VA each.
- Total of capacitors: 65 800  $\mu$ F.
- 2x150Wrms / 8 $\Omega$ .
- MOS-FET triple push-pull power stage.
- Shielded audio-specific MKP technology link capacitors.
- Filtering capacitors: 8x6800  $\mu$ F high quality, low ESR specific for ATOLL.



- BURR BROWN PCM1792 converter:
  - Dynamic: 129 dB.
  - Signal/Noise ratio: 129 dB.

# DAC ~ CONVERTERS

## MUSIC, FROM DIGITAL TO ANALOG

We know the musical importance of sources within a hi-fi system. Our converters have been implemented to offer you the best of your favorite music.

Many believe that the secret to a good converter lies in choosing a "high-end" converter chip; if it is important, we know that the essence of musicality also lies in:

- The analog signal processing stages.
- Power supplies (transformers, filtering, regulation).
- Digital signal processing before conversion.
- The quality of key components: clocks, transistors, capacitors, etc.

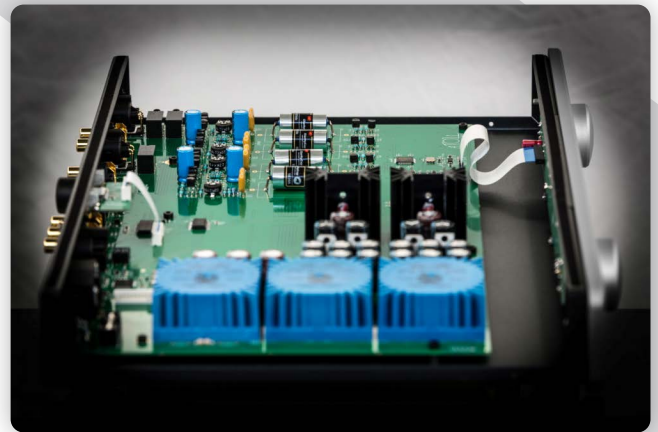
## COMMON FEATURES TO SIGNATURE SERIES CONVERTERS

- Front panel in brushed aluminium.
- Output stages with discrete components, without feedback, polarized in class A.
- Separate digital and analog stage power supplies.
- Specific transformer for digital stages.

### DAC300 internal view

In the foreground, 3 high performance low radiation transformers:

- 1 for digital stages.
- 2 for the output stages (one per channel, in dual mono configuration).



### Connectivity common to DAC200 Signature & DAC300

- 9 digital inputs:
  - 3 coaxials.
  - 3 optical toslink.
  - 1 AES/EBU.
  - Bluetooth®.
  - 1 USB-B.
- 3 analog outputs:
  - 1 RCA unbalanced stereo.
  - 1 XLR balanced stereo.
  - 1 Ø 3,5 mm headphone jack socket.
- 2 digital outputs:
  - 1 coaxial and 1 optical.



DAC300 rear side.



DAC300 black aluminium version.

## DAC100 Signature

- 4 mm brushed aluminium front panel.
- 2 independent transformers (one reserved for analog audio).
- D/A converter: BURR-BROWN PCM1796:
  - Dynamic: 123 dB.
  - Distortion rate: 0,0005%.
  - Signal/Noise ratio: 123 dB.
- Asynchronous USB-B input can convert PCM up to 192 kHz and DSD64 and 128 (XMOS USB interface with specific program designed for ATOLL).
- Volume attenuation by converter (from the remote control only).
- Unbalanced analog outputs.
- 7 regulated power supplies.
- MKP capacitors in audio link.
- Optional ATOLL global remote control.



## DAC200 Signature

- 8 mm brushed aluminium front panel.
- 3 independent linear transformers (including 2 specific for analog audio).
- SABRE ES9028PRO converter (32 bits/768 kHz):
  - Dynamic: 133 dB.
  - THD to 1 kHz (0 dBF) : - 120 dB
  - Signal/Noise ratio: 129 dB.
- Very low noise SABRE ES9311EQ power supply (<math>< 1 \mu V\_{rms}</math>).
- Ultra high precision low jitter clock.
- Asynchronous USB-B input can convert PCM up to 768 kHz and DSD64, 128, 256 and 512 (interface USB XMOS with specific program designed for ATOLL).
- Volume management by attenuation at the converter. Can be deactivated (BY-PASS ON or OFF).
- Unbalanced and balanced analog outputs.
- 12 independent voltage regulations.
- Balanced power supply dedicated to the output audio stages (linear transformers).
- MKP technology link capacitors.
- High frequency capacitors with silver mica technology.
- ATOLL global remote control as standard.



## DAC300

- 8 mm brushed aluminium front panel.
- 3 independent very low noise linear transformers (including 2 reserved for analog audio).
- SABRE ES9038PRO converter (32 bits/768 kHz):
  - Dynamic: 137 dB.
  - THD to 1 kHz (0 dBF) : -122 dB.
  - Signal/Noise ratio: 132 dB.
- SABRE ES9311EQ power supply with very low noise (<math>< 1 \mu V\_{rms}</math>).
- Ultra high precision low jitter clock.
- Asynchronous USB-B input can convert PCM up to 768 kHz and DSD64, 128, 256 and 512 (XMOS USB interface with specific program designed for ATOLL).
- Volume management by attenuation at the converter. Can be deactivated (BY-PASS ON or OFF).
- Unbalanced and balanced analog outputs.
- 12 independent voltage regulations.



- Balanced power supply dedicated to the output audio stages (low noise transformers).
- CLARITY CAP ESA series MKP audio link capacitors.
- High frequency capacitors with silver mica technology.
- ATOLL global remote control as standard.

## HD100 AND HD120 - HEADPHONE AMPLIFIERS

Our headphone amplifiers are equipped with a converter stage to allow you to play digital sources. All our development has been carried out around a selection of the best headphones on the market to guarantee you great versatility and flawless musicality.

HD100 and HD120 are equipped with a preamp output so that they can be combined with MA100 or any other ATOLL power amplifier.



### COMMON FEATURES

- 4 mm brushed aluminium front panel.
- 3 independent linear transformers (including 2 very low noise specific for analog audio in dual mono configuration).
- Total of capacitors: 12 425  $\mu$ F.
- 8 regulated power supplies (including 4 specific for the audio stages).
- Analog volume control (ALPS potentiometer).
- Class A polarized discrete component audio preamp stages.
- Bipolar transistors stages.
- High-end MKP link capacitors CLARITY CAP.
- 2 JACK outputs for  $\varnothing$  6,35 mm headphones.
- 2 RCA analog inputs.
- BURR BROWN PCM5102 converter:
  - Dynamic: 112 dB.
  - Signal/Noise ratio: 112 dB.
- 1 coaxial digital input.
- 1 toslink optical digital input.
- 1 USB-B input.
- Controllable with the ATOLL global remote control (option).

**DIFFERENCES BETWEEN HD100 AND HD120 :** 1 Bluetooth® input (direct i2S link) on the HD120.

## PHONOS AMPLIFIERS

Our configurable phono preamplifier (\*) allows the use of low and high level MM and MC cartridges. The structure is in pure double mono. The power supplies are shielded in a metal box to preserve the signal from any interference. The audio stages are entirely made of discrete components polarized in class A and operate with direct current (no connection capacitor).

### PH100

- 4 mm front panel in brushed aluminum.
- 2 very low noise linear transformers 3.6 VA each.
- 4 regulated power supplies.
- Total of capacitors: 11 280  $\mu$ F.
- Input impedance 47 k or 100 k (\*).
- Input capacitance: 100 pF or nothing (\*).
- High level MC gain: 47 dB (\*).
- Low level MC gain: 60 dB (\*).
- MM gain: 40 dB (\*).



- Signal/Noise Ratio at 1 kHz 80 dB.
- Crosstalk at 1 kHz: < -85 dB.
- Frequency response (20 Hz - 20 kHz): < 0.1 dB.
- THD: 0.05%.

### PH200

- 8 mm front panel in brushed aluminum.
- Silver mica technology RIAA filter capacitors.
- 2 very low noise linear transformers 7.0 VA each.
- 4 regulated power supplies.
- Total of capacitors: 54 400  $\mu$ F.
- Input impedance: 47 k $\Omega$ .
- Input capacitance: Nothing / 100 pF / 220 pF / 320 pF.
- High level MC gain: 47 dB (\*).
- Low level MC gain: 60 dB (\*).
- MM gain: 40 dB (\*).



- Signal/Noise Ratio at 1 kHz: 80 dB.
- Crosstalk at 1 kHz: < -86 dB.
- Frequency response (20 Hz - 20 kHz): < 0.1 dB.
- THD: 0.05%.

(\*) depending on the position of the switches.



### TU80 SIGNATURE, ANALOG RDS FM TUNER

The TU80 Signature FM Tuner is equipped with a high precision receiver module. It automatically displays the names of the stations listened to thanks to the RDS function. It offers automatic or manual station search, a MONO/STEREO function and the possibility of storing up to 20 stations.

- 4 mm brushed aluminium front panel.
- Class A polarized fully discrete component audio output stages.
- 2 independent transformers (one specific for analog audio).
- Total of capacitors: 6 768  $\mu$ F.
- 4 regulated power supplies.
- Signal/Noise Ratio: 58 dB (stereo), 63 dB (mono).
- Intermodulation sensitivity: 40 dB  $\mu$ V.
- Impedance of the antenna to be connected: 75 ohms.
- Optional ATOLL global remote control.



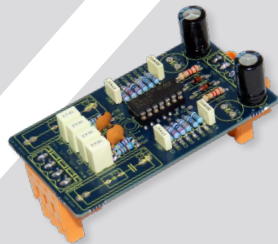
### OPTIONS - OPTIONAL BOARDS AND GLOBAL ATOLL REMOTE CONTROL

Optional boards can be originally installed or easily after purchase, as your needs change. It allows you to transform the "AUX" input of your preamp or your integrated (excluding IN30) into a phono input.

#### P50 : PHONO BOARD

Our entry-level board is equipped with a low noise JFET operational amplifier, and it's designed for MM cartridge.

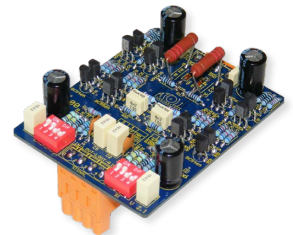
- Type: MM.
- Input impedance: 47 k.
- Input capacitance: 100 pF.
- MM gain: 40 dB.
- THD: 0,05%.



#### P100 : PHONO BOARD

Our configurable board (\*) MM, MC low or high level with discrete components polarized in class A, is designed to adapt to all cartridges on the market.

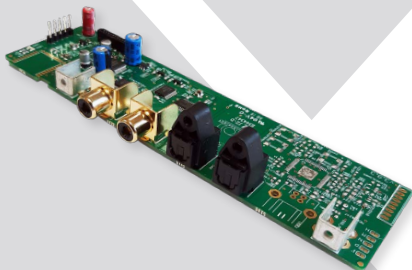
- Type: MM / MC.
- Input impedance: 47 k or 100 k (\*).
- Input capacity: 100 pF or nothing (\*).
- MM gain: 40 dB (\*).
- High level MC gain: 46 dB (\*).
- Low level MC gain: 52 dB (\*).
- THD: 0,05%.



(\*) depending on the position of the switches.

#### DA100: OPTIONAL S/PDIF DAC BOARD FOR INTEGRATED AND PREAMPLIFIERS SIGNATURE SERIES

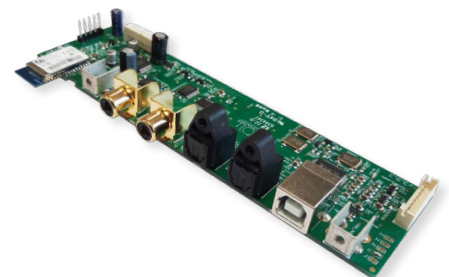
(IN50 sig, IN80 Sig, IN100 Sig, PR200 Sig, IN200 Sig from the serial number 617659, PR300 Sig from the serial number 626210).



See page 8.

#### DA200: OPTIONAL USB-BLUEETOOTH DAC BOARD FOR INTEGRATED AND PREAMPLIFIERS SIGNATURE SERIES

(IN50 sig, IN80 Sig, IN100 Sig, IN200 Sig, PR200 Sig, PR300 Sig)

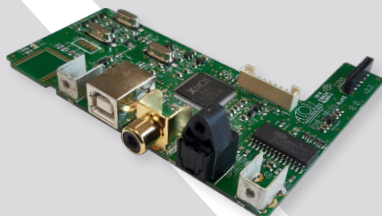


See page 8.

#### DC200: OPTIONAL DAC BOARD FOR SIGNATURE SERIES CD

(CD50 Sig, CD80 Sig, CD100 Sig, CD200 Sig).

The Signature range CD players can be optionally equipped with a board with three digital inputs:



See page 6.

#### GLOBAL ATOLL REMOTE CONTROL

It allows you to control all ATOLL products: Integrated, CD players, Tuners, DACs...



# TECHNICAL DATA

	POWER Wrms/ CHANNEL /8Ω	POWER Wrms/ CHANNEL /4Ω	PULSE POWER (Wrms)	POWER SUPPLY (VA)	TOTAL OF CAPACI- TORS (μF)	NUMBER OF DIGITAL OUTPUTS	SORTIES NUMÉRIQUES	NUMBER OF ANALOG INPUTS	NUMBER OF ANALOG OUTPUTS
<b>MD100</b>	-	-	-	30	10 411	-	1 COAXIAL 1 OPTICAL	-	1 RCA
<b>CD50 Sig</b>	-	-	-	30 + 4,6	8 192	OPTION: 1 COAXIAL 1 OPTICAL 1 USB	1 COAXIAL 1 OPTICAL	-	1 RCA
<b>CD80 Sig</b>	-	-	-		12 892				
<b>CD100 Sig</b>	-	-	-	30 + 10	13 032				
<b>CD200 Sig</b>	-	-	-						
<b>DR100 Sig</b>	-	-	-	30	14 142	-	1 COAXIAL 1 OPTICAL	-	-
<b>DR200 Sig</b>	-	-	-		22 100	-	1 COAXIAL 1 OPTICAL 1 AES		
<b>MS120</b>	-	-	-	2×4,5 + 4,6 + 3,2	5 435	2 COAXIAL 2 OPTICAL 1 BLUETOOTH 2 USB-A	1 COAXIAL 1 OPTICAL	2 RCA	1 RCA 1 HEADPHONE JACK Ø 3,5 mm
<b>ST200 Sig</b>	-	-	-	30 + 10	27 000		1 COAXIAL 1 OPTICAL	2 RCA	1 RCA 1 HEADPHONE JACK Ø 3,5 mm
<b>ST300 Sig</b>	-	-	-	30 + 10 + 10	69 000		1 COAXIAL 1 OPTICAL	2 RCA	1 RCA 1 XLR 1 CASQUE Ø 3,5 mm
<b>SDA200 Sig</b>	120	200	340	2×340 + 2×4,5	65 800	2 COAXIAL 2 OPTICAL 1 BLUETOOTH 2 USB-A	1 COAXIAL 1 OPTICAL	2 RCA	1 RCA 1 XLR 1 HEADPHONE JACK Ø 3,5 mm
<b>SDA300 Sig</b>	150	260	340	2×440 + 2×4,5 + 3,2	65 800		1 COAXIAL 1 OPTICAL	2 RCA	1 PRE-OUT 1 HEADPHONE JACK Ø 6,35 mm 1 SPEAKER
<b>DAC100 Sig</b>	-	-	-	4,6 + 3,2	6 991	3 COAXIAL 3 OPTICAL 1 USB-B	1 COAXIAL 1 OPTICAL	-	1 RCA
<b>DAC200 Sig</b>	-	-	-	2×4,6 + 10	20 030	3 COAXIAL 3 OPTICAL 1 USB-B 1 AES 1 BLUETOOTH	1 COAXIAL 1 OPTICAL	-	1 RCA 1 XLR 1 HEADPHONE JACK Ø 3,5 mm
<b>DAC300</b>	-	-	-						
<b>HD100</b>	-	-	-	12,4	12 425	1 COAXIAL 1 OPTICAL 1 USB B (24/96)	-	2 RCA	1 RCA 2 HEADPHONES JACK Ø 6,35 mm
<b>HD120</b>	-	-	-			1 COAXIAL 1 OPTICAL 1 USB B (24/192) 1 BLUETOOTH			
<b>TU80 Sig</b>	-	-	-	30 + 4,6	6 768	-	-	-	1 RCA
<b>PH100</b>	-	-	-	2×3,2	11 280	-	-	1 RCA + GND	1 RCA
<b>PH200</b>	-	-	-	2×7	54 400	-	-	1 RCA + GND	1 RCA
<b>IN50 Sig</b>	50	70	90	170	17 874	2 COAXIAL 2 OPTICAL 1 USB-B 1 BLUETOOTH (OPTION)	-	5 RCA 1 BY-PASS	2 PRE-OUT 1 TAPE-OUT 1 HEADPHONE JACK Ø 6,35 mm 1 SPEAKER
<b>IN80 Sig</b>	80	120	150	340	31 474				
<b>IN100 Sig</b>	100	140	180	2×340					
<b>IN200 Sig</b>	120	200	300	2×340	62 853				
<b>IN300</b>	150	260	340	2×440	86 400	2 COAXIAL 2 OPTICAL 1 USB-B 1 BLUETOOTH	-	5 RCA 1 BY-PASS 1 XLR	
<b>PR200 Sig</b>	-	-	-	340	31 918	2 COAXIAL 2 OPTICAL 1 USB-B 1 BLUETOOTH (OPTION)	-	5 RCA 1 BY-PASS	2 PRE-OUT 1 TAPE-OUT 1 HEADPHONE JACK Ø 6,35 mm
<b>PR300 Sig</b>	-	-	-		62 000				
<b>MA100</b>	60 <sup>(1)</sup>	80	100	170	16 600	-	-	1 RCA	1 RCA 1 SPEAKER
<b>AM100 Sig</b>	100 <sup>(1)</sup>	140	180	2×340	32 247	-	-	1 RCA	1 RCA 1 SPEAKER
<b>AM200 Sig</b>	120 <sup>(1)</sup>	200	300		57 280				
<b>AM300</b>	150 <sup>(1)</sup>	280	340	2×440	83 300	-	-	1 RCA + 1 XLR	1 RCA 1 SPEAKER
<b>AV100</b>	100	140	180	2×340	44 210	-	-	3 RCA	3 RCA 3 SPEAKERS (MONO)
<b>AV500</b>	5×85 / 2×100 <sup>(2)</sup>	5×100 / 2×140 <sup>(2)</sup>	150	2×340	73 000	-	-	5 RCA	5 RCA 5 SPEAKERS (MONO)

<sup>(1)</sup> All stereo power amplifiers are monobloc bridgeable: the power under 8Ω is multiplied by 3.

<sup>(2)</sup> Multi-channel power / Stereo power.

# TECHNICAL DATA

	IMPÉDANCE D'ENTRÉE (Ω)	SENSIBILITÉ	TEMPS DE MONTÉE (μS)	BANDE PASSANTE (-3 dB)	NIVEAU DE SORTIE (V <sub>rms</sub> )	RAPPORT SIGNAL/BRUIT (dB)	DISTORSION À 1 kHz	DIMENSIONS (mm) LxPxH	POIDS (Kg)			
<b>MD100</b>	-	-	2,0	5 Hz - 20 kHz	2,0	112	0,002%	320×210×83	3			
<b>CD50 Sig</b>	-	-	2,0	5 Hz - 20 kHz	2,5	113	0,001%	440×280×95	6			
<b>CD80 Sig</b>					-	-	2,0			5 Hz - 20 kHz	2,10	123
<b>CD100 Sig</b>								2,65			129	0,0004%
<b>CD200 Sig</b>								440×284×95			7	
<b>DR100 Sig</b>	-	-	-	-	-	-	-	440×280×95	6			
<b>DR200 Sig</b>	-	-	-	-	-	-	-	440×284×95	7			
<b>MS120</b>	47 k	-	1,7	5 Hz - 20 kHz	2,8	123	0,0005%	320×210×94	3			
<b>ST200 Sig</b>	47 k	-	1,5	5 Hz - 20 kHz	2,6	129	0,0004%	440×284×95	6			
<b>ST300 Sig</b>	47 k	-	1,5	5 Hz - 20 kHz	2,0	132	0,0004%	440×284×95	7			
<b>SDA200 Sig</b>	220 k	350 mV	2,0	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×365×95	13			
<b>SDA300 Sig</b>	220 k	350 mV	1,3	5 Hz - 150 kHz	-	100	0,05% / (10 W)	440×365×103	19			
<b>DAC100 Sig</b>	-	-	-	5 Hz - 20 kHz	2,8	123	0,0005%	320×210×63	2			
<b>DAC200 Sig</b>					2,25	129	- 120 dB	440×293×63	5			
<b>DAC300</b>						132	- 122 dB	440×308×63	5			
<b>HD100</b>	220 k	-	1,5	1 Hz - 150 kHz	-	100	< 0,01%	320×225×63	3			
<b>HD120</b>												
<b>TU80 Sig</b>	-	40 dB μV (Intermodulation)	2,5	20 Hz - 20 kHz	2,0	58 (STEREO) 63 (MONO)	0,1%	440×280×95	7			
<b>PH100</b>	47 k ou 100 k	-	-	20 Hz - 20 kHz	-	80	0,05%	320×210×63	2			
<b>PH200</b>	47 k	-	-	20 Hz - 20 kHz	-	80	0,05%	440×295×63	5			
<b>IN50 Sig</b>	357 k	100 mV	2,5	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×305×95	7			
<b>IN80 Sig</b>									8			
<b>IN100 Sig</b>									11			
<b>IN200 Sig</b>	220 k	350 mV	2,5	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×309×95	12			
<b>IN300</b>	220 k	350 mV	2,0	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×365×103	16			
<b>PR200 Sig</b>	220 k	500 mV	1,5	5 Hz - 200 kHz	-	100	0,005%	440×300×95	8			
<b>PR300 Sig</b>	220 k	500 mV	1,5	5 Hz - 100 kHz	-	100	0,005%	440×304×95	9			
<b>MA100</b>	220 k	1,37 V	2,0	5 Hz - 200 kHz	-	100	0,05% / (10 W)	320×227×83	4			
<b>AM100 Sig</b>	47 k	1,77 V	1,3	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×291×95	11			
<b>AM200 Sig</b>	220 k	1,77 V	1,5	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×295×95	12			
<b>AM300</b>	220 k	1,7 V	1,5	5 Hz - 200 kHz	-	100	0,005%	440×351×103	16			
<b>AV100</b>	47 k	1,77 V	1,3	5 Hz - 200 kHz	-	100	0,05% / (10 W)	440×291×95	11			
<b>AV500</b>	47 k	1,77 V	1,3	5 Hz - 200 kHz	-	100	0,05% / (10 W)	440×291×95	12			

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