



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



# 2025-2026 CATALOG





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 of the stages, each device is studied by corroborating measurements and listening. We design symmetrical audio stages for all our products: with little or no feedback, the systematic choice of circuits with discrete components allows fine and precise adjustments of all parameters.

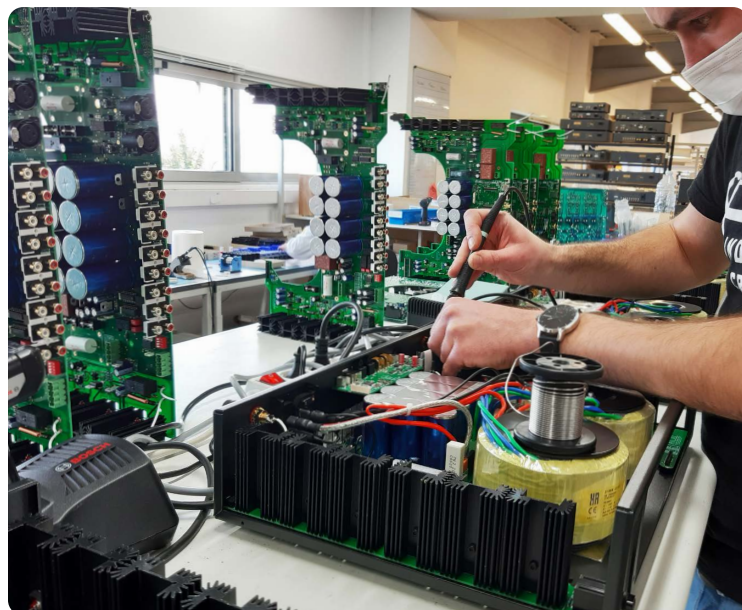
In addition, the key components are selected after long hours of research and comparison in order to offer you the best possible musicality.

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, represented by 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 anodized brushed aluminium finish.



**IN400 Evolution**  
Silver anodized brushed 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 rewards of our research: musicality, fluidity, richness of timbre and detail, an extraordinarily realistic liveliness for a faithful reproduction of your favorite music.

Since the creation of ATOLL, many music lovers have unanimously validated our efforts, an enthusiasm confirmed by numerous distinctions awarded by the press in France and internationally.



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.

## FINESSE AND PROBITY

The Evolution series CD players benefit from numerous innovations, whether in terms of power supplies or audio and conversion stages. They feature the latest TEAC mechanics. In addition, all these devices can receive a 24-bit/192 kHz DAC board based on the player's internal converter.

## COMMON FEATURES OF THE EVOLUTION SERIES CD SOURCES.

- Brushed, micro-blasted and anodized aluminium front panel, high-precision engraving.
- Double-sided printed circuits with nickel/gold finish.
- Original TEAC central CD mechanics (latest generation).
- Pure audio CD player compatible with: CD, CD-R, CD-RW, MP3, WMA-AAC.
- Low-power transformer dedicated to standby mode.
- 2 digital outputs (1 coaxial and 1 optical).
- 12V Trigger output (from CD50 to CD200 & DR100, DR200)
- Low-power OLED display (from CD50 to CD200 & DR100, DR200)
- CD-Text display (from CD50 to CD200 & DR100, DR200).
- Differential audio output stages with discrete components polarized in class A (from CD50 to CD200).
- ATOLL global remote control as standard.
- Optional 24-bit/192 kHz digital board (from CD50 to CD200).



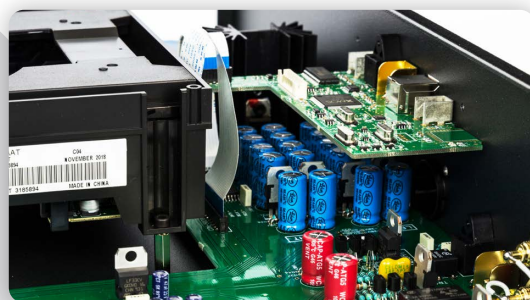
ATOLL global remote control.

### DC200

Digital option board (only for Signature and Evolution series from CD50 to CD200).

The CD players of the Signature and Evolution ranges 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-B input (XMOS USB interface with specific program designed for ATOLL).  
– PCM from 16 bits to 24 bits up to 192 kHz.



DC200 board on **CD200 Evolution**.

### Evolution Series CD Player connectivity

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



**CD200 Evolution** rear view.



**CD200 Evolution** black aluminium version.



## MD100 Evolution - MINI CD player

- 4 mm brushed aluminium front panel.
- 10 VA low consumption transformer.
- Total of capacitors: 11 000  $\mu\text{F}$
- 7-segment LED display.
- BURR BROWN PCM5122 converter:
  - 24 bits/192 kHz. – Dynamic: 112 dB. – Signal/Noise Ratio: 112 dB.



## CD50 Evolution

- 4 mm brushed aluminium front panel.
- 8 regulated power supplies.
- 30 VA transformer + 1.6 VA (low consumption).
- Separate 4.6 VA linear transformer for audio stages.
- Total of capacitors: 16 700  $\mu\text{F}$ .
- BURR BROWN PCM1791A converter:
  - 24 bits/192 kHz. – Dynamic: 113 dB. – Signal/Noise Ratio: 113 dB.



## CD80 Evolution

- 4 mm brushed aluminium front panel.
- 10 regulated power supplies including a specific low-noise one for the converter.
- 30 VA transformer + 1.6 VA (low consumption).
- Separate 4.6 VA linear transformer for the audio stages.
- Total of capacitors: 21 400  $\mu\text{F}$ .
- BURR BROWN PCM1791A converter:
  - 24 bits/192 kHz. – Dynamic: 113 dB. – Signal-to-Noise Ratio: 113 dB.



## CD100 Evolution

- 4 mm brushed aluminium front panel.
- 10 regulated power supplies including a specific low-noise one for the converter.
- 30 VA transformer + 1.6 VA (low consumption).
- Separate 10 VA toroidal transformer for the audio stages.
- Total of capacitors: 21 450  $\mu\text{F}$ .
- Current-voltage conversion stages designed by ATOLL from bipolar transistors.
- BURR BROWN PCM1796 converter:
  - 24 bits/192 kHz. – Dynamic: 124 dB. – Signal-to-Noise Ratio: 124 dB.



## CD200 Evolution

- 8 mm brushed aluminium front panel.
- 10 regulated power supplies including a specific low-noise one for the converter.
- 30 VA transformer + 1.6 VA (low consumption).
- Separate 10 VA toroidal transformer for the audio stages.
- Total of capacitors: 21 450  $\mu\text{F}$ .
- Current-voltage conversion stages designed by ATOLL from bipolar transistors.
- BURR BROWN PCM1792A converter: – 24 bits/192 kHz. – Dynamic: 129 dB. – Signal-to-Noise Ratio: 129 dB.



## DR100 Evolution - CD Drive

- 4 mm brushed aluminium front panel.
- 30 VA transformer + 1.6 VA (low consumption).
- Coaxial and optical outputs.
- Total of capacitors: 15 000  $\mu\text{F}$ .
- Specific anti-vibration treatment for CD mechanics.
- Optimized board for jitter reduction.
- Digital signal isolation by LVDS circuit (signal reformatting).

## DR200 Evolution - CD Drive

- 8 mm brushed aluminium front panel.
- 30 VA transformer + 1.6 VA (low consumption).
- Coaxial, optical and AES/EBU outputs.
- Total of capacitors: 23 000  $\mu\text{F}$ .
- 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.
- Optimized board for jitter reduction.
- Digital signal isolation by LVDS circuit (signal reformatting).

# IN ~ INTEGRATED AMPS & PREAMPS

## AN OPTIMIZED CIRCUIT CONCEPT

Our rigorous research includes the design of proprietary ATOLL circuits to preserve the integrity of even the most subtle musical signals.

Our symmetrical MOS-FET amplifier circuits deliver high power with lower power consumption. Moreover, MOS-FET transistors offer excellent harmonic gradient, have no memory effect, and at each *forte*, current is immediately delivered to your speakers. This is one of the secrets to the musicality of ATOLL amplifiers.

## COMMON FEATURES OF INTEGRATED PREAMPS

- Brushed, micro-blasted and anodized aluminium front panel, high-precision engraving.
- Discrete audio stages.
- High-quality MKP coupling capacitors.
- High-performance heat sinks, direct thermal coupling.
- Double-sided PCBs with nickel/gold finish.
- Current sources with bipolar transistors and LEDs to ensure perfect voltage stability.
- Class A/B power stage biasing.
- High-contrast OLED display (since IN200): on or off mode after 5 seconds of inactivity.
- Controllable with the ATOLL global remote control.
- Optional DAC board: DA100 or DA200.
- Optional phono board: P50 or P100, can be combined with the DAC board.

### DA100 Optional S/PDIF board (See page 17).

- AKM-AK4493 Audio Converter:
  - Dynamic: 120 dB.
  - Signal-to-noise ratio: 120 dB.
- 2 coaxial inputs (24 bits/192 kHz).
- 2 optical inputs (24 bits/192 kHz).

### DA200 Optional DAC board (See page 17).

- Audio converter AKM-AK4493 :
  - Dynamic: 120 dB.
  - Signal-to-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. (XMOS USB interface with specific program designed for ATOLL).
  - PCM: 32 bits/384 kHz.
  - DSD: 64 and 128.



DA200 DAC board in the IN100 Signature

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

- 5 audio inputs (RCA):
  - AUX (or optional phono stage P50 / P100).
  - CD
  - TUNER
  - DVD
  - TAPE (IN + OUT)
  - 1 BY-PASS (used as a power amplifier).
- 2 analog preamp outputs (for bi-amplification or to connect a subwoofer).
- 1 headphone JACK Ø 6.35 mm.
- 1 Trigger output (12V).



IN200 Evolution with DA200 board rear view.



IN100 Signature black aluminium version.



## IN50 Signature

- 4 mm brushed aluminium front panel.
- $2 \times 50$  Wrms /  $8 \Omega$ .
- 170 VA toroidal transformer.
- Total of capacitors: 17 874  $\mu$ F.
- ALPS motorized potentiometer.
- Single push-pull MOS-FET power stage.
- Monitoring loop.

## IN80 Signature

- 4 mm brushed aluminium front panel.
- $2 \times 80$  Wrms /  $8 \Omega$ .
- 340 VA toroidal transformer.
- Total of capacitors: 31 474  $\mu$ F.
- ALPS motorized potentiometer.
- Single push-pull MOS-FET power stage.
- Monitoring loop.

## IN100 Signature

- 4 mm brushed aluminium front panel.
- $2 \times 100$  Wrms /  $8 \Omega$ .
- 2 toroidal transformers of 340 VA each.
- Soft start system.
- Total of capacitors: 31 474  $\mu$ F.
- ALPS motorized potentiometer.
- Single push-pull MOS-FET power stage.
- Monitoring loop.

## IN200 Evolution

- 8 mm brushed aluminium front panel.
- $2 \times 120$  Wrms /  $8 \Omega$ .
- 2 toroidal transformers of 340 VA each for the audio stages plus 10 VA for the digital stages.
- Soft start system.
- Total of capacitors: 59 220  $\mu$ F.
- Dual push-pull MOS-FET power stage.
- 2 volume attenuators: 1 per channel to maintain the dual mono architecture.
- High-quality filter capacitors, with low ESR specific for ATOLL.
- Shielded MKP Mundorf capacitors.
- Monitoring loop.
- Tellurium copper speaker terminals.
- High-contrast OLED display.

## IN300 Evolution

- 8 mm brushed aluminium front panel.
- $2 \times 150$  Wrms /  $8 \Omega$ .
- 2 toroidal transformers of 440 VA each for the audio stages plus 10 VA for the digital stages.
- High-end ABSOLUTE CREATIONS cable on the mains side.
- Soft Start system.
- Total of capacitors: 86 150  $\mu$ F.
- Triple push-pull MOS-FET power stage.
- 2 volume attenuators: 1 per channel to maintain the dual mono architecture.



- Ability to:
  - Choose the standby mode: Low consumption or preheating.
  - Manage and memorize the balance.
  - Rename the inputs.
- ATOLL global remote control supplied as standard.



- High-quality filter capacitors, with low ESR specific for ATOLL.
- High-quality shielded MKP link capacitors.
- Tellurium copper speaker terminals.
- High-contrast OLED display.
- Ability to:
  - Choose the standby mode: Low consumption or preheating.
  - Manage and memorize the balance.
  - Rename the inputs.
- ATOLL global remote control supplied as standard.



IN300 Evolution with DA200 board option.

## POWER AND MODULARITY

ATOLL offers a range of preamplifiers and power amplifiers: this offers a wide range of possible combinations as well as a considerable source of improvements. All our power amplifiers can be associated with an integrated amplifier or an ATOLL preamplifier. They can be bridged in mono mode and cascaded in multi-amplification mode.

## COMMON FEATURES TO POWER AMPLIFIERS

- Double-sided printed circuits with nickel/gold finish.
- Symmetrical audio stages with discreet components.
- MOS-FET power transistor.
- Polarization of the power stages in class A/B.
- Bridgeable in mono block.
- Standard 12V Trigger input (option on AVs).

## COMMON FEATURES TO PREAMPLIFIERS

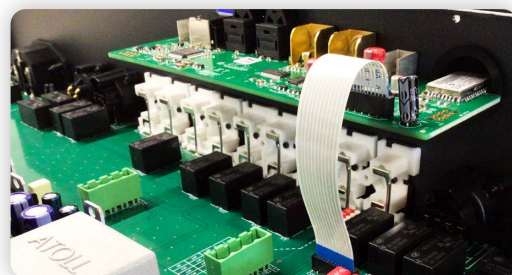
- Brushed, micro-blasted and anodized aluminium front panel, high-precision engraving.
- Symmetrical audio stages with discreet components.
- MKP technology link capacitors.
- Toroidal transformers.
- Double-sided printed circuits with nickel/gold finish.
- BY-PASS input.
- 2 analog pre-amplified outputs.
- Optional DAC board: DA100 or DA200.
- Optional phono board: P50 or P100, that can be combined with the DAC board.
- 12V Trigger output.

### DA100 Optional S/PDIF board (See page 17).

- AKM-AK4493 Audio Converter:
  - Dynamic: 120 dB.
  - Signal-to-noise ratio: 120 dB.
- 2 coaxial inputs (24 bits/192 kHz).
- 2 optical inputs (24 bits/192 kHz).

### DA200 Optional DAC board (See page 17).

- Audio converter AKM-AK4493 :
  - Dynamic: 120 dB.
  - Signal-to-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 in the **PR300 Evolution**

### Connectivity (PR200 Sig and PR300 EVO)

- 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.
- 12V Trigger output.
- XLR inputs and outputs (only PR300 EVO).



**PR300 Evolution** with DA200 DAC board rear view.



**PR300 Evolution** black aluminium finish.



## PR200 Signature - Preamplifier

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



## PR300 Evolution - Preamplifier

- 8 mm brushed aluminium front panel.
- Two 10 VA toroidal transformers for the audio stages.
- One 3.2 VA linear transformer (digital audio).
- One 5 VA low-power transformer (control logic).
- Total of capacitors: 89 000  $\mu\text{F}$ .
- High-quality, shielded MKP coupling capacitors.
- Fully balanced, dual mono structure:
  - Two independent balanced stages for each channel.
  - One stereo attenuator per channel (with switched resistors).
- Audio stages with bipolar transistors, biased to class A, very low feedback.
- High-contrast OLED display.



- Ability to:
  - Choose the standby mode: Low consumption or preheating.
  - Manage and memorize the balance.
  - Rename the inputs.
- ATOLL global remote control included as standard.

## MA100 - Mini Power amplifier

- 4 mm brushed aluminium front panel.
- $2 \times 60 \text{ Wrms} / 8 \Omega$ .
- 170 VA toroidal transformer.
- Total of capacitors: 16 600  $\mu\text{F}$ .
- Single push-pull MOS-FET power stage.



## AM100 Signature - Power amplifier

- 4 mm brushed aluminium front panel.
- $2 \times 100 \text{ Wrms} / 8 \Omega$ .
- 2 toroidal transformers of 340 VA each.
- Soft Start system.
- Total of capacitors: 32 247  $\mu\text{F}$ .
- Single push-pull MOS-FET power stage.



## AM200 Evolution - Power amplifier

- 8 mm brushed aluminium front panel.
- $2 \times 120 \text{ Wrms} / 8 \Omega$ .
- 2 toroidal transformers of 340 VA each.
- Soft Start system.
- Total of capacitors: 59 420  $\mu\text{F}$ .
- High-quality, low-ESR filter capacitors specific to ATOLL.
- High-quality, shielded MKP coupling capacitors.
- Double push-pull MOS-FET power stage.
- Bipolar transistor and LED current sources ensure perfect voltage stability.



- Full dual-mono architecture.
- Tellurium copper speaker terminals.

## AM300 Evolution - Power amplifier

- 8 mm brushed aluminium front panel.
- $2 \times 150 \text{ Wrms} / 8 \Omega$ .
- 2 toroidal transformers of 440 VA each and one of 5 VA.
- High-end ABSOLUE CREATIONS cable on the mains side.
- Soft Start system.
- Total of capacitors: 83 300  $\mu\text{F}$ .
- High-quality, low-ESR filter capacitors specific to ATOLL.
- High-quality, shielded MKP coupling capacitors.
- Bipolar transistor current sources and LEDs to ensure perfect voltage stability.



- Triple push-pull MOS-FET power stage.
- Full dual-mono architecture.
- High-quality balanced XLR and RCA line inputs.
- Tellurium copper speaker terminals.

## AV100 - 3 channel power amplifier

- 4 mm brushed aluminium front panel.
- $3 \times 100 \text{ Wrms} / 8 \Omega$ .
- 2 toroidal transformers, 340 VA each.
- Total of capacitors: 44 210  $\mu\text{F}$ .
- Optional 12V Trigger input.

## AV500 - 5 channel power amplifier

- 4 mm brushed aluminium front panel.
- $2 \times 100 \text{ Wrms} / 8 \Omega$ ,  $5 \times 85 \text{ Wrms} / 8 \Omega$ .
- 2 toroidal transformers, 340 VA each.
- Total of capacitors: 73 000  $\mu\text{F}$ .
- 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 favourite internet radio stations, our network players are perfectly adapted to the current needs related to the reading of dematerialized music files.

They embed a high-performance converter and can be used as a pure source or a preamplifier. Our "all-in-one" SDA200 Signature and SDA300 Signature are additionally equipped with powerful amplifiers.

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

- 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, 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 Signature 2 app. (Android and IOS).
- ATOLL "streamer" remote control supplied as standard.



ATOLL Signature 2 app.

#### Connectivity

- 2 analog inputs.
- 2 optical digital inputs.
- 2 coaxial digital inputs.
- 1 RCA output.
- 1 XLR output (ST300 Sig).
- 1 speaker output (SDA).
- 1 Ø 3,5 mm headphone JACK output.
- 1 Trigger output (12V).

#### SERVICES DE DIFFUSION DE MUSIQUE EN LIGNE

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



#### CONTRÔLES EXTERNES POSSIBLES

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



#### RADIOS INTERNET

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...



#### FORMATS AUDIO COMPATIBLES

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



SDA200 Signature black aluminium version.



**STREAMERS - DACs - PREAMPLIFIERS****Mini Streamer MS120**

- 4 mm brushed aluminium front panel.
- 2 transformers 5 VA + 3,2 VA + 4,6 VA 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.
- 30 VA linear transformer + 10 VA low noise dedicated to audio stages.
- Total of capacitors: 27 000  $\mu$ F.
- CLARITY CAP ESA series MKP audio link capacitors.
- BURR BROWN PCM1792A converter:
  - Dynamic: 129 dB.
  - Signal/Noise ratio: 129 dB.

**ST300 Signature**

- 8 mm brushed aluminium front panel.
- 30 VA linear transformer + 2x10 VA low noise dedicated to audio stages.
- Total of capacitors: 69 000  $\mu$ F.
- CLARITY CAP ESA series MKP audio link capacitors.
- Double converter BURR BROWN PCM1792A:
  - Dynamic: 132 dB.
  - Signal/Noise ratio: 132 dB.



- Integral double MONO structure.
- High-quality balanced XLR and RCA line connectors.

**STREAMERS - DACs - AMPLIFIERS (ALL-IN-ONE)****SDA200 Signature**

- 8 mm brushed aluminium front panel.
- 2 toroidal transformers of 340 VA each.
- Soft Start system.
- Total of capacitors: 65 800  $\mu$ F.
- 2x120 Wrms / 8 $\Omega$ .
- MOS-FET double push-pull power stage.
- Shielded high-quality MKP technology link capacitors.
- High-quality, low-ESR filter capacitors specific to ATOLL.
- BURR BROWN PCM1792A converter:
  - Dynamic: 129 dB.
  - Signal/Noise ratio: 129 dB.



- 2 volume attenuators: 1 per channel to maintain the dual mono architecture.
- Tellurium copper speaker terminals.

**SDA300 Signature**

- 8 mm brushed aluminium front panel.
- 2 toroidal transformers of 440 VA each.
- Soft Start system.
- Total of capacitors: 65 800  $\mu$ F.
- 2x150Wrms / 8 $\Omega$ .
- High-end ABSOLUE CREATIONS cable on the mains side.
- MOS-FET triple push-pull power stage.
- Shielded high-quality MKP technology link capacitors.
- High-quality, low-ESR filter capacitors specific to ATOLL.
- BURR BROWN PCM1792A converter:
  - Dynamic: 129 dB.
  - Signal/Noise ratio: 129 dB.



- 2 volume attenuators: 1 per channel to maintain the dual mono architecture.
- Tellurium copper speaker terminals.

# 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:

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

## COMMON FEATURES TO CONVERTERS

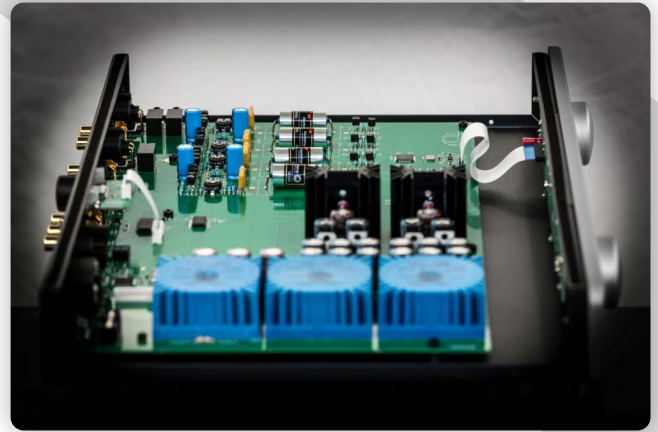
- Front panel in brushed aluminium.
- Specific transformer for digital stages.
- Separate digital and analog stage power supplies.
- Output stages with discrete components, without feedback, polarized in class A.

### 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).

In the background: the 4 independent audio stages.



### Connectivity common to DAC200 Signature & DAC300

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



DAC300 rear view.



DAC300 black aluminium version.



## DAC100 Signature

- 4 mm brushed aluminium front panel.
- 2 linear transformers: one 3,2 VA and one 4,6 VA 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 the 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 linear transformers: one 10 VA and two 4,6 VA 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 ( $<1 \mu V_{rms}$ ).
- 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.



- High-quality balanced XLR and RCA line outputs.
- High-contrast OLED display.
- ATOLL global remote control as standard.

## DAC300

- 8 mm brushed aluminium front panel.
- 3 linear transformers: one 10 VA and two 10 VA specific 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 ( $<1 \mu V_{rms}$ ).
- 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.
- High-quality balanced XLR and RCA line outputs.
- High-contrast OLED display.
- ATOLL global remote control as standard.

## THE HEADPHONE AMPLIFIERS HD100 & HD120

Our headphone amplifiers are equipped with audio stages specifically designed for this application. They also feature a converter to allow you to play digital sources. Our entire development process was based on a selection of the best headphones on the market to guarantee great versatility and flawless musicality.

The HD100 and HD120 are equipped with a preamp output so they can be paired with an MA100 or another ATOLL amplifier.



## COMMON FEATURES TO HEADPHONE AMPLIFIERS

- 4 mm brushed aluminum front panel.
- 3 linear transformers: one 3,2 VA and two 4,6 VA 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 motorised potentiometer).
- Class A polarized discrete component audio preamp stages.
- Final stage with bipolar transistors.
- High-end MKP link capacitors.
- 2 RCA analog inputs.
- 1 coaxial digital input.
- 1 Toslink optical digital input.
- 1 USB-B input.
- BURR BROWN PCM5102 converter:
  - Dynamic range: 112 dB.
  - Signal-to-Noise Ratio: 112 dB.
- 2 JACK outputs for  $\varnothing$  6,35 mm headphones.
- 1 RCA analog output.
- Controllable with the ATOLL global remote control.

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

## PHONO PREAMPLIFIERS

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 aluminium.
- 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 aluminium.
- Silver mica technology RIAA filter capacitors.
- 2 very low noise linear transformers 7 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 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 linear transformers: one 30 VA and one 4,6 VA 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.



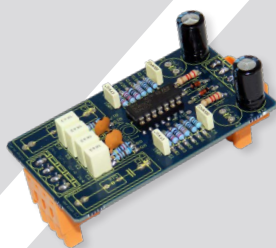
## OPTIONS - OPTIONAL BOARDS AND GLOBAL ATOLL REMOTE CONTROL

Optional boards can be installed on your device as standard. They can also be easily installed after purchase, as your needs evolve. This allows you to transform the "AUX" input of your preamp or integrated amplifier (except 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.

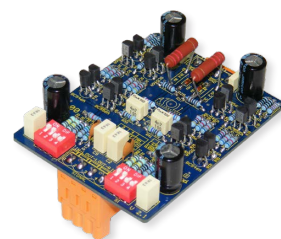
- Type: MM.
- Input impedance: 47 k.
- Input capacitance: 100 pF.
- MM gain: 40 dB.
- THD: 0,05%.



### 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%.

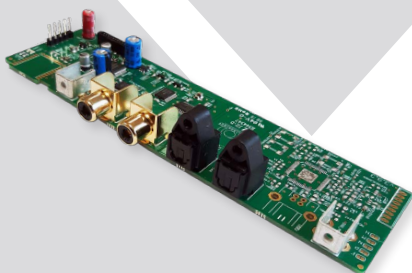


(\*) depending on the position of the switches.

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

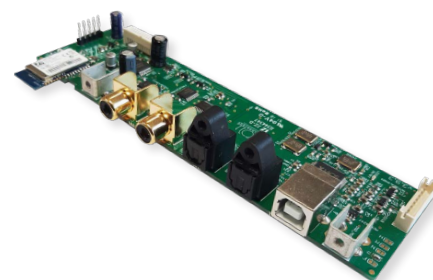
IN200 Sig from number 617659, PR300 Sig from number 626210.

See page 8



### DA200: OPTIONAL USB-BLUEETOOTH DAC BOARD FOR INTEGRATED AMPLIFIERS AND PREAMPLIFIERS OF THE SIGNATURE AND EVOLUTION SERIES

See page 8



### DC200: OPTIONAL DAC BOARD FOR SIGNATURE AND EVOLUTION SERIES CD PLAYERS

Signature and Evolution CD players can be equipped, as an option, with a three-digital input board.

See page 6



### GLOBAL ATOLL REMOTE CONTROL

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



# 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				
MD100	-	-	-	10	11 094	-	1 COAXIAL 1 OPTICAL	-	1 RCA				
CD50 EVO	-	-	-	30 + 4,6 + 1,6	16 700	OPTION: 1 COAXIAL 1 OPTICAL 1 USB	1 COAXIAL 1 OPTICAL	-	1 RCA				
CD80 EVO					21 400								
CD100 EVO				30 + 10 + 1,6	21 450								
CD200 EVO													
DR100 EVO	-	-	-	30 + 1,6	15 000	-	1 COAXIAL 1 OPTICAL	-	-				
DR200 EVO					23 000		1 COAXIAL 1 OPTICAL 1 AES						
MS120	-	-	-	2×5 + 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				
ST200 Sig	-	-	-	30 + 10	27 000		1 COAXIAL 1 OPTICAL	2 RCA	1 RCA 1 HEADPHONE JACK Ø 3,5 mm				
ST300 Sig	-	-	-	30 + 10 + 10	69 000		1 COAXIAL 1 OPTICAL	2 RCA	1 RCA 1 XLR 1 HEADPHONE JACK Ø 3,5 mm				
SDA200 Sig	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				
SDA300 Sig	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				
DAC100 Sig	-	-	-	4,6 + 3,2	6 991	3 COAXIAL 3 OPTICAL 1 USB-B	1 COAXIAL 1 OPTICAL	-	1 RCA				
DAC200 Sig				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				
DAC300				3×10									
HD100	-	-	-	2×4,6 + 3,2	12 425	1 COAXIAL 1 OPTICAL 1 USB B (24/192)	-	2 RCA	1 RCA 2 HEADPHONES JACK Ø 6,35 mm				
HD120						1 COAXIAL 1 OPTICAL 1 USB B (24/192) 1 BLUETOOTH							
TU80 Sig	-	-	-	30 + 4,6	6 768	-	-	-	1 RCA				
PH100	-	-	-	2×3,2	11 280	-	-	1 RCA + GND	1 RCA				
PH200	-	-	-	2×7	54 400	-	-	1 RCA + GND	1 RCA				
IN50 Sig	50	70	90	170	17 874	OPTION: 2 COAXIAL 2 OPTICAL 1 USB-B 1 BLUETOOTH	-	5 RCA 1 BY-PASS	2 PRE-OUT 1 TAPE-OUT 1 HEADPHONE JACK Ø 6,35 mm 1 SPEAKER				
IN80 Sig	80	120	150	340	31 474								
IN100 Sig	100	140	180	2×340									
IN200 EVO	120	200	300	2×340 + 10	59 220								
IN300 EVO	150	260	340	2×440 + 10	86 150			5 RCA 1 BY-PASS 1 XLR					
PR200 Sig	-	-	-	340	31 918	OPTION: 2 COAXIAL 2 OPTICAL 1 USB-B 1 BLUETOOTH	-	5 RCA 1 BY-PASS	2 PRE-OUT 1 TAPE-OUT 1 HEADPHONE JACK Ø 6,35 mm				
PR300 EVO				2×10 (audio) + 5 + 3,2	89 000			5 RCA 1 BY-PASS 1 XLR	2 PRE-OUT 1 TAPE-OUT 1 XLR 1 HEADPHONE JACK Ø 6,35 mm				
MA100	60 <sup>(1)</sup>	80	100	170	16 600	-	-	1 RCA	1 RCA 1 SPEAKER				
AM100 Sig	100 <sup>(1)</sup>	140	180	2×340	32 247	-	-	1 RCA	1 RCA 1 SPEAKER				
AM200 EVO	120 <sup>(1)</sup>	200	300		59 420								
AM300 EVO	150 <sup>(1)</sup>	280	340	2×440	83 600	-	-	1 RCA + 1 XLR	1 RCA 1 SPEAKER				
AV100	100	140	180	2×340	44 210	-	-	3 RCA	3 RCA 3 SPEAKERS (MONO)				
AV500	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 (Vrms)	RAPPORT SIGNAL/BRUIT (dB)	DISTORSION À 1 kHz	DIMENSIONS (mm) LxPxH	POIDS (Kg)
MD100 EVO	-	-	2,0	5 Hz - 20 kHz	2,0	112	0,002%	320×210×83	3
CD50 EVO	-	-	2,0	5 Hz - 20 kHz	2,5	113	0,001%	440×280×95	6
CD80 EVO					2,10	123	0,0005%		
CD100 EVO								2,65	129
CD200 EVO									
DR100 EVO	-	-	-	-	-	-	-	440×280×95	6
DR200 EVO								440×284×95	7
MS120	47 k	-	1,7	5 Hz - 20 kHz	2,8	123	0,0005%	320×210×94	3
ST200 Sig	47 k	-	1,5	5 Hz - 20 kHz	2,6	129	0,0004%	440×284×95	6
ST300 Sig	47 k	-	1,5	5 Hz - 20 kHz	2,0	132	0,0004%	440×284×95	7
SDA200 Sig	220 k	350 mV	2,0	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×365×95	13
SDA300 Sig	220 k	350 mV	1,3	5 Hz - 150 kHz	-	100	0,05% / (10 W)	440×365×103	19
DAC100 Sig	-	-	-	5 Hz - 20 kHz	2,8	123	0,0005%	320×210×63	2
DAC200 Sig					2,25	129	- 120 dB	440×293×63	5
DAC300						132	- 122 dB	440×308×63	5
HD100	220 k	-	1,5	1 Hz - 150 kHz	-	100	< 0,01%	320×225×63	3
HD120									
TU80 Sig	-	40 dB μV (intermodulation)	2,5	20 Hz - 20 kHz	2,0	58 (STEREO) 63 (MONO)	0,1%	440×280×95	7
PH100	47 k ou 100 k	-	-	20 Hz - 20 kHz	-	80	0,05%	320×210×63	2
PH200	47 k	-	-	20 Hz - 20 kHz	-	80	0,05%	440×295×63	5
IN50 Sig	357 k	100 mV	2,5	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×305×95	7
IN80 Sig									8
IN100 Sig									11
IN200 EVO	220 k	350 mV	2,5	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×309×95	12
IN300 EVO	220 k	350 mV	2,0	5 Hz - 100 kHz	-	100	0,05% / (10 W)	440×365×103	16
PR200 Sig	220 k	500 mV	1,5	5 Hz - 200 kHz	-	100	0,005%	440×300×95	8
PR300 EVO	220 k	500 mV	1,5	5 Hz - 100 kHz	-	100	0,005%	440×342×95	9
MA100	220 k	1,37 V	2,0	5 Hz - 200 kHz	-	100	0,05% / (10 W)	320×227×83	4
AM100 Sig	47 k	1,77 V	1,3	5 Hz - 200 kHz	-	100	0,05% / (10 W)	440×291×95	11
AM200 EVO	220 k	1,77 V	1,5	5 Hz - 200 kHz	-	100	0,05% / (10 W)	440×295×95	12
AM300 EVO	220 k	1,7 V	1,5	5 Hz - 200 kHz	-	105	0,005%	440×351×103	16
AV100	47 k	1,77 V	1,3	5 Hz - 200 kHz	-	100	0,05% / (10 W)	440×291×95	11
AV500	47 k	1,77 V	1,3	5 Hz - 200 kHz	-	100	0,05% / (10 W)	440×291×95	12

# ATOLL ELECTRONIQUE

Boulevard des Merisiers  
50370 BRECEY, FRANCE  
+33 2 33 48 44 06  
www.atoll-electronique.com  
mail@atoll-electronique.com

Dealer's stamp

