

MOSCONI

MAY 2016

Italian Pride!

Since 2009, MOSCONI have been manufacturing, exclusively in Italy, amplifiers, DSP and electronic devices for the car audio market through the cooperation of a skilled team of people with more than 20-year experience in this field.

Its qualified R&D department, the selection of components and with scrupulous specific tests on every single product bring MOSCONI items up to high quality standards and advanced technology. They are able to integrate with original installations of cars improving and transforming them into hi-end level ones.

The awards and prizes that have been assigned to MOSCONI highlights during these years by authoritative European journalists attest its full value.



EUROPEAN In-Car Smart Upgrade 2015-2016 - **MOSCONI GLADEN PICO 2**

Time is money. With the MOSCONI GLADEN PICO 2 you can save both while still dramatically improving the sound quality of the OEM sound system in your car. It may be hard to believe, but this tiny box (which fits easily into a breast pocket) delivers test-proven 80W of pure power into each of its two channels, which is more than many amplifiers much bigger in size can provide. More importantly, the PICO 2 can be installed almost anywhere inside the dashboard in a matter of minutes with no need for drills or screws. Never before in the history of car audio has it been possible to upgrade the sound quality so quickly, so simply and with such impressive results.



EUROPEAN In-Car Amplifier 2014-2015 - **MOSCONI GLADEN D2 100.4 DSP**

The MOSCONI GLADEN D2 100.4 DSP has everything you would expect from an in-car amplifier – except for size. This is an unbelievably small unit with output that belies its dimensions, as four channels of 100 Watts each would be more than enough for even a big amplifier. This amplifier comes with a powerful digital processor packed into the same tiny case, which allows the D2 100.4 DSP to be the heart of a sophisticated and high-quality sound system. In addition to conventional connections, this unit has wireless Bluetooth and optical input. Control for the processor can be managed wirelessly using the optional Bluetooth module, or via USB. The term 'smart amp' has not yet been coined, but if it were this would be a perfect example.



EUROPEAN In-Car Streaming Solution 2013-2014 - **MOSCONI DSP_AMAS**

The MOSCONI DSP_AMAS is an add-on module for the MOSCONI DSP 6to8 processor. It offers high bit rate, high quality audio music streaming capability to your DSP 6to8 equipped car audio system from any Bluetooth equipped music-streaming device such as a phone or tablet. Using A2DP protocol with EDR extension, audio of any file type (eg. FLAC, Ogg, Apple Lossless etc.), is transmitted straight into the digital signal path thus providing high quality interference-free sound. The MOSCONI DSP_AMAS when combined with the DSP 6to8 processor integrates easily into any factory system without sacrificing any of the car's safety or comfort features.



EUROPEAN In-Car Integration 2012-2013 - **MOSCONI GLADEN DSP6to8**

Need a sound improvement that fits anywhere? The MOSCONI GLADEN DSP6to8 might be the right machine for you. It connects easily to aftermarket head units as well as to any factory system. It can handle any flat or pre-filtered signal thanks to its fully adjustable input mixer. It features all the tools needed for digital sound processing, and with its 8 channels it is suitable for virtually any application. The MOSCONI GLADEN DSP6to8 can be connected to many external sources, including optional solutions for digital inputs and Bluetooth audio streaming. Analog level control and automatic head-room management secure optimal conditions for the digital processing, resulting in the best possible in-car sound experience.



EUROPEAN In-Car Amplifier 2010-2011 - **MOSCONI AS 100.4**

The AS 100.4 is definitely Italian as demonstrated by its quality and style. This elegantly engineered four-channel class AB amplifier includes all the features you would expect from an amplifier of this class plus really unique features such as a slot for preconfigured vehicle specific filter modules offering equalization and sound stage enhancement. This amplifier's design strikes a perfect balance between tradition and innovation, exceeding the highest expectations of the audiophile.

PLAYITALIAN



MOSCO



SOUND TIP
Absolute top class
CAR & HI-FI 1/2011

autohifi TEST RESULT
GLADEN A-CLASS
Absolutely top class | **75**
Price rating ★★★★★

UNIQUE AS A MASTERPIECE

The very special Dynamic A-Class circuitry combines the best power efficiency with a superb acoustic performance.

FCS: Full Complementary Solutions and power BJTs devices to reach an extraordinary sound experience.

ZNF: Zero Negative Feedback to avoid any kind of intermodulation distortion.

DD: Direct Drive capability to achieve the shortest signal path.

A-CoDe: A-Class on Demand proprietary technology circuitry assures always the best working point of the output transistor to match the real A class needs.

SHPPC: Smooth Harmonics Power Clipping Controlled circuitry avoid a sharp saturation of the output stages when the signal is near to the power supply rail level.

In such way the listening is always pleasant and not tiring, even at high power levels.



Stereo Power RMS @40hm	W	2 x 100
Stereo Power RMS @20hm	W	2 x 200
Input sensitivity range	V	0.2 ÷ 5
Internal fuse	A	1 x 80
Dimensions	mm	450 x 250 x 50
Slot for G_cards		yes
Finishing		brushed

COMPATIBLE ACCESSORIES:
G-CARDS (no G_BTL_MONO)

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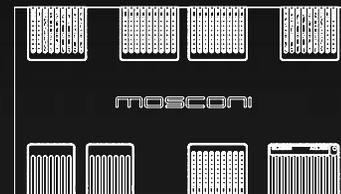
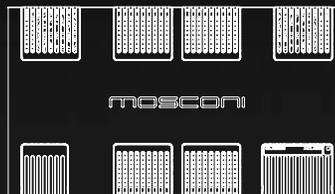
POWER & VERSATILITY IN THE FIRST CLASS

The great partners for the **A CLASS**

- AB class, full MOSFET
- 1 Ohm stable
- Damping Factor exceeds 3000 (ZERO 3)
- 101dB S/N ratio (A weighted) (for ZERO3 only)
- Very low THD and IMD
- Regulated power supply
- High/Low level selector
- Auto REMOTE function
- Cross Over with separate High Pass and Low Pass filter, Band Pass allowed
- Slot for G_cards (G_HOC, G_HP, G_LP, G_FSA, G_BTL_MONO)
- Remote Volume Control RTC_MOS (optional)
- Side panels in soft touch finishing with red LED lighting
- Dedicated to 150th Anniversary of the unification of Italy



		ZERO 3	ZERO 4
Stereo power RMS @40hm	W	2 x 270	2 x 100 (CH1/2) + 2 x 210 (CH3/4)
Stereo power RMS @20hm	W	2 x 520	2 x 145 (CH1/2) + 2 x 325 (CH3/4)
Bridge power RMS @40hm	W	1 x 1040	1 x 290 (CH1/2) + 1 x 650 (CH3/4)
Bridge power RMS @20hm	W	1 x 1850	1 x 450 (CH1/2) + 1 x 900 (CH3/4)
DC-DC converter typology		Regulated	Regulated
Input sensitivity range	V	0.2 ÷ 5 / 0.8 ÷ 20 (HL)	0.39 ÷ 8.6 / 1.1 ÷ 25 (HL)
HP filter range (switchable)	Hz	20 ÷ 175	20 ÷ 175 (CH1/2 x10); 20 ÷ 175 (CH3/4)
HP filter slope	dB/Oct	12	12
LP filter range (switchable)	Hz	50 ÷ 300	50 ÷ 300 (CH1/2 x20); 50 ÷ 300 (CH3/4)
LP filter slope	dB/Oct	12	12
Band pass filter		yes	yes
High Level Input		yes	yes
Slot for G_cards		yes	yes
Internal fuse	A	1 x 150	1 x 150
Dimensions	mm	450 x 250 x 50	450 x 250 x 50
RTC_MOS (optional)		yes	yes
Finishing		brushed	brushed



GLADEN ZERO



MOSCONI ZERO 3
Absolute top class 1,1
CAR HI-FI 5/2011

COMPATIBLE ACCESSORIES:

G-CARDS
RTC-MOS

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TAKE IT TO THE REDLINE!

AB-Class amplifier with regulated power supply for incredible power and great dynamic sound. MOS HyperDrive & OverCold mode to be protagonist in SPL competitions. With MOS HyperDrive we have removed the limiter from an already extraordinary amplifier. By using MOS HyperDrive it is possible to achieve very high power, dynamic and acoustic quality at the same time, never experienced before. The MOS OverCold feature activates the cooling fans at maximum speed.

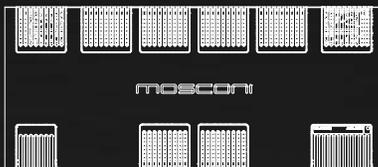


standard
circuit
amplifier



HyperDrive mode
circuit
amplifier

Stereo power RMS @40hm	W	2 x 450 (HyperDrive= 2 x 650)
Stereo power RMS @20hm	W	2 x 850 (HyperDrive= 2 x 1200)
Bridge power RMS @40hm	W	1 x 1700 (HyperDrive= 1 x 2400)
Bridge power RMS @20hm	W	1 x 3000 (HyperDrive= 1 x T.B.D.)
DC-DC converter typology		Regulated
Input sensitivity range	V	0.43 ÷ 9.5 / 1.2 ÷ 27 (HL)
HP filter range (switchable)	Hz	20 ÷ 175
HP filter slope	dB/Oct	12
LP filter range (switchable)	Hz	50 ÷ 300
LP filter slope	dB/Oct	12
Band pass filter		yes
High Level Input		yes
Slot for G_cards		yes
External fuse	A	1 x 250
Dimensions	mm	590 x 250 x 50
G_BTL_MONO		yes, in bundle
RTC_MOS (optional)		yes
Finishing		brushed



POWER TIP
Absolute top class
CAR HI-FI 2/2012

GLADEN ZERO 1



COMPATIBLE ACCESSORIES:

G-CARDS (G_BTL_MONO in bundle)

RTC-MOS

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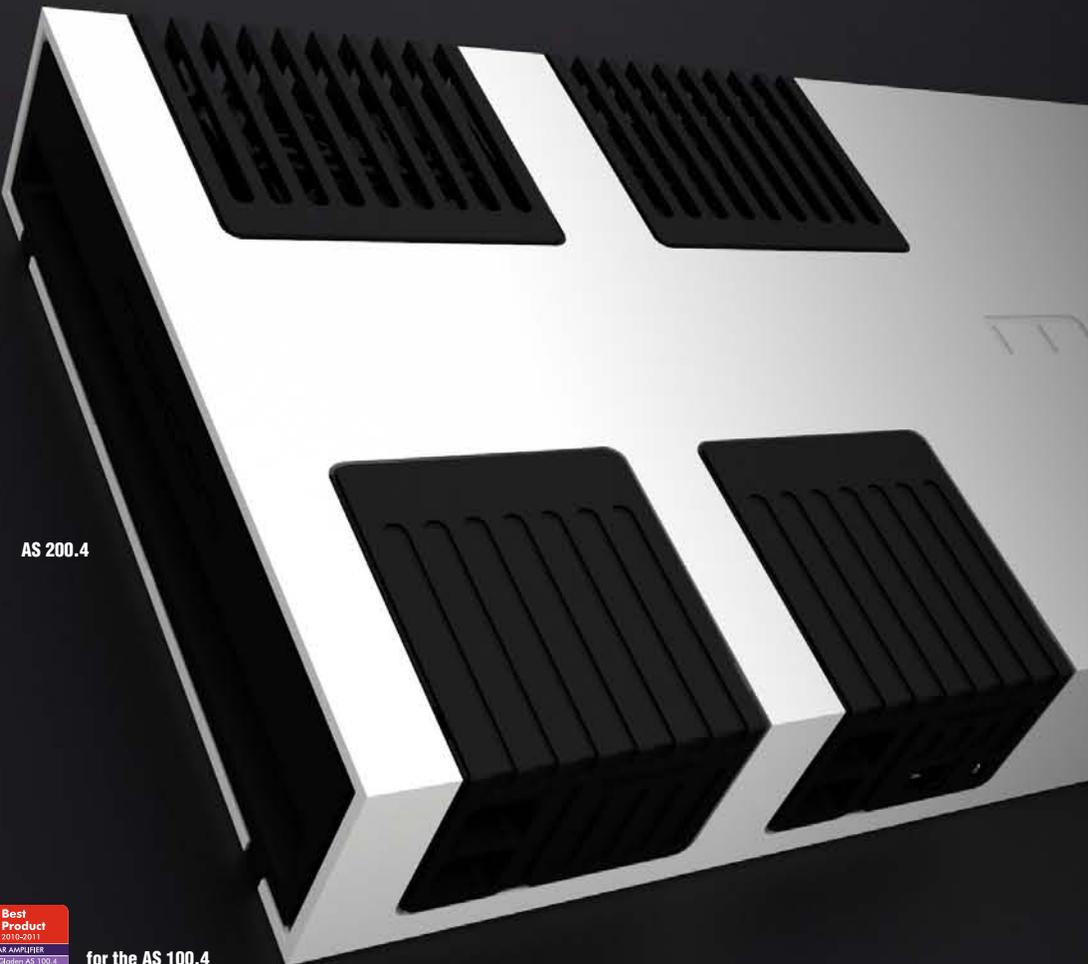
PERFORMANCES BEYOND COMPARISON

The 1st range, developed from a unique design and audiophile pureness sound, more than any other has achieved the most prestigious awards, from EISA 2010-2011 AWARD for the best car amplifier with AS100.4 to the first places and world records in EMMA, IASCA and dB-CUP.

The amplifier for those who want to get power, control and great sound quality from a compact device.

Provided with slots for the optional G_HOC (optimizing cards for preconfigured vehicle to obtain a perfect and easy settings), G_FSA (to regulate the front stage), G_HP/LP (cut frequencies from 25Hz to 8000Hz) and G_BTL_MONO (bridge mono system configuration).

AS 200.4



for the AS 200.2



for the AS 100.4

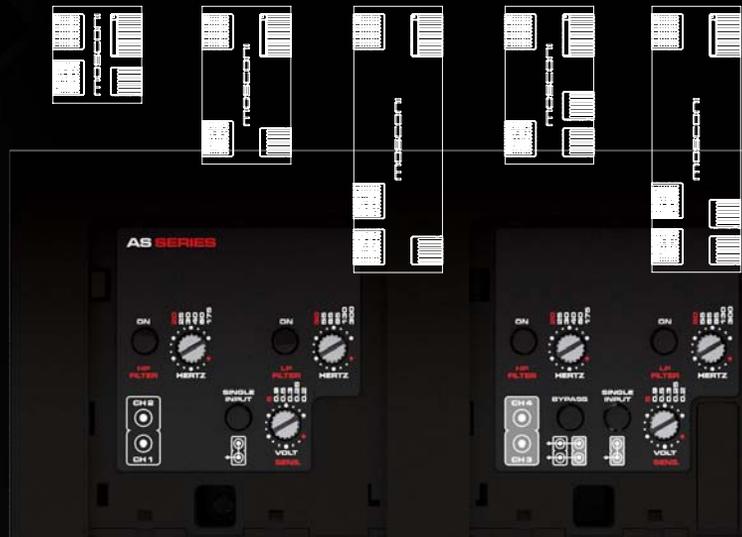
GLADEN AS

		AS 100.2	AS 200.2	AS 300.2	AS 100.4	AS 200.4
Stereo power RMS @40hm	W	2 x 100	2 x 200	2 x 300	4 x 100	4 x 200
Stereo power RMS @20hm	W	2 x 160	2 x 320	2 x 550	4 x 155	4 x 320
Bridge power RMS @40hm	W	1 x 320	1 x 640	1 x 1100	2 x 310	2 x 640
Bridge power RMS @20hm	W	1 x 500	1 x 1000	1 x 1800	2 x 480	2 x 950
DC-DC converter typology		Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
Input sensitivity range	V	0.2 ÷ 5	0.2 ÷ 5	0.2 ÷ 5	0.2 ÷ 5	0.2 ÷ 5
HP filter range (switchable)	Hz	20 ÷ 175	20 ÷ 175	20 ÷ 175	20 ÷ 175	20 ÷ 175
HP filter slope	dB/Oct	12	12	12	12	12
LP filter range (switchable)	Hz	50 ÷ 300	50 ÷ 300	50 ÷ 300	50 ÷ 300	50 ÷ 300
LP filter slope	dB/Oct	12	12	12	12	12
Band pass filter		yes	yes	yes	yes	yes
Slot for G_cards		yes	yes	yes	yes	yes
Internal fuse	A	1 x 40	1 x 80	1 x 150	1 x 80	1 x 150
Dimensions	mm	215 x 200 x 50	350 x 200 x 50	590 x 200 x 50	350 x 200 x 50	590 x 200 x 50
RTC_MOS (optional)		yes	yes	yes	yes	yes
Finishing		silver or white				

COMPATIBLE ACCESSORIES:

G-CARDS	pag. 30
RTC-MOS	pag. 31
AS LED FRAME	pag. 33

AS control panel



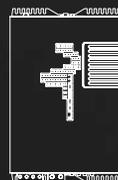
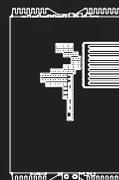
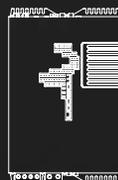
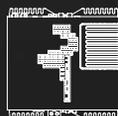
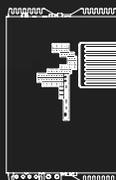
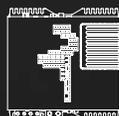
THE NEW ONE LINE

The new amplifiers of the ONE line have been improved while maintaining the characteristics of practicality, compactness and sound quality of the previous line. Provided with High Level Input with autosense power-on and thermo-proportional controlled cooling fans, the amplifiers can be easily installed using the Plug & Play wiring harness (optional).

The ONE amplifiers offer now the possibility to use G_CARDS (optional).

The preamplifier and filter sections have been improved, together with the transient protection against input voltage spikes and the DC-DC converter. Last but not least high grade Analog Device ICs have been used in the input signal interface circuitry.

		ONE 130.2	ONE 250.2	ONE 80.4	ONE 130.4*	ONE 70.6	ONE1000.1D*
Power RMS @40hm	W	2 x 130	2 x 250	4 x 80	4 x 130	6 x 70	1 x 600
Power RMS @20hm	W	2 x 175	2 x 340	4 x 115	4 x 175	6 x 100	1 x 1000
Bridge power RMS @40hm	W	1 x 350	1 x 680	2 x 230	2 x 350		
DC-DC converter typology		Unregulated	Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
Input sensitivity range	V	0.35 ÷ 16	0.35 ÷ 16	0.35 ÷ 16	0.35 ÷ 16	0.35 ÷ 16	0.4 ÷ 16
HP filter range	Hz	/	/	/	/	45 ÷ 225	20 ÷ 100
LP filter range	Hz	/	/	/	/	45 ÷ 225	40 ÷ 280
HP or LP filter range (switchable)	Hz	20 ÷ 225	20 ÷ 225	20 ÷ 225	20 ÷ 225	20 ÷ 225	/
HP and LP filter slope	dB/Oct	12	12	12	12	12	24
Phase shift		/	/	/	/	/	0 ÷ 360°
Auto-sense high-level		only BTL	BTL only				
Internal fuse	A	2 x 20	2 x 40	2 x 20	2 x 40	2 x 30	4 x 30
Dimensions	mm	190 x 200 x 50	300 x 200 x 50	190 x 200 x 50	315 x 200 x 50	300 x 200 x 50	300 x 200 x 50
Finishing		black	black	black	black	black	black



* available also
with 24V

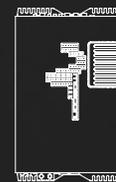
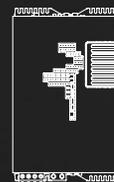
ONE DSP INSIDE

Class AB amplifiers with on-board DSP + 2 digitally processed line outputs.
AUX inputs suitable for hands-free set, mobile navigation and external stereo sources.



ONE 130.4DSP

	ONE 130.4DSP	ONE 60.8DSP
Stereo power RMS @40hm	W 4 x 130	8 x 60 or 4 x 60 + 2 x 120
Stereo power RMS @20hm	W 4 x 175	8 x 90 or 6 x 90 + 2 x 180
Bridge power RMS @40hm	W 2 x 350	4 x 180
DC-DC converter typology	Unregulated	Unregulated
Input sensitivity range (low level + high level)	V 0.8 ÷ 17 (HL)	0.8 ÷ 16 (HL)
Autosense power-on (High Level only, SE or BTL mode)	yes	yes
Hand-free, Navigator, AUX inputs	yes	yes
Auto-Fading between inputs	yes	yes
Signal Mix capability	yes	yes
USB cable for PC connection	yes	yes
BT wireless module for PC connection (optional)	yes	yes
GUI (Windows XP,VISTA 32/64bit and 7 32/64bit)	yes	yes
Available hardware presets	two	two
30 bands parametric equalizer	yes	yes
Implemented filters type	all standard filters available	all standard filters available
HP frequency range for each channel	Hz 10 ÷ 20000	10 ÷ 20000
LP frequency range for each channel	Hz 10 ÷ 20000	10 ÷ 20000
HP and LP filter slope for each cell	dB/Oct 6 to 24 (up to 48 if cascaded)	6 to 24 (up to 48 if cascaded)
Band pass allowed	yes	yes
Variable "Q"	0.5 ÷ 40	0.5 ÷ 40
Time delay	ms 0 ÷ 15 (0,02 steps)	0 ÷ 15 (0,02 steps)
Phase inversion for each channel	0 / 180°	0 / 180°
Gain level for each channel	dB -115,5 ÷ 6	-115,5 ÷ 6
Internal fuse	A 2 x 40	2 x 40
Dimensions	mm 315 x 200 x 50	300 x 200 x 50
Finishing	black	black



GLADEN ONE DSP



ONE 60.8DSP

COMPATIBLE ACCESSORIES:

RCD
MOS-BTM
RTC-HUB

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D2 DSP INSIDE

Class D amplifiers with on-board DSP + 2 digitally processed line outputs.

DSP with SP-DIF digital input, AUX inputs suitable for hands-free set, mobile navigation and external stereo sources.



D2 100.4 DSP



D2 80.6 DSP

NOTE: these amplifiers are designed to play music on real speakers. They are not rated to drive static signals on pure resistive loads.

MOS_BT5

High Quality BlueTooth Streaming module specially made by MOS to be used exclusively with the D2 100.4 DSP and D2 80.6 DSP. It supports the A2DP profile and streams music formats like WAVE, AAC, MP3 and lossless like PCM and FLAC.

GLADEN D2 DSP



		D2 100.4 DSP	D2 80.6 DSP
Stereo power RMS @40hm	W	4 x 105 [@ 14V4]	6 x 80 [@ 14V4]
Stereo power RMS @20hm	W	4 x 130 [@ 13V8]	6 x 100 [@ 14V4]
Bridge power RMS @40hm	W	2 x 90 + 1 x 280 [@ 13V8]	4 x 70 + 1 x 215 [@ 14V4]
DC-DC converter typology		Unregulated - Push Pull	Unregulated - Push Pull
Input sensitivity range	V	0.75 ÷ 12 (LL); 1.9 ÷ 31 (HL) rms	0.27 ÷ 8.5 (LL); 0.7 ÷ 22 (HL) rms
Autosense power-on (High Level only)		3 modes: OFF, BTL, SE	3 modes: OFF, BTL, SE
REM out		yes (max 100mA)	yes (max 100mA)
Hand-free, Navigator, AUX inputs	AUX	yes (Ch 3-4)	yes (Ch 5-6)
Auto-Fading between inputs		yes	yes
Signal Mix capability		yes	yes
USB cable for PC connection		yes	yes
Proprietary DSP software		yes, for Windows O.S.	yes, for Windows O.S.
SP-DIF digital input (optical)		yes, Toslink	yes, Toslink
Parametric equalizer bands		30/25/9 (CH1-2/CH3-4/CH5-6)	30/25/9 (CH1-2/CH3-4/CH5-8)
Implemented filters type		all standard filters available	all standard filters available
HP frequency range for each channel	Hz	10 ÷ 20000	10 ÷ 20000
LP frequency range for each channel	Hz	10 ÷ 20000	10 ÷ 20000
HP and LP filter slope for each cell	dB/Oct	6-12 [max 60/48 (CH1-4/CH5-6)]	6-12 [max 60/48 (CH1-4/CH5-8)]
Band pass allowed		yes	yes
Variable "Q"		0.5 ÷ 40	0.5 ÷ 40
Time delay	ms	0 ÷ 15 (0.02 steps)	0 ÷ 15 (0.02 steps)
Phase inversion for each channel		0 / 180°	0 / 180°
Gain level for each channel	dB	-115 ÷ 6	-115 ÷ 6
Overall efficiency		> 75%	> 75%
Internal fuse	A	1 x 40	1 x 40
Dimensions	mm	151 x 144 x 41	201 x 144 x 41
Weight	g	1028	1340
Finishing		Silver (brushed)	Silver (brushed)

COMPATIBLE ACCESSORIES:

- MOS-BTS pag. 14
- DSP-RCD and DSP RC MINI pag. 28
- MOS-BTM pag. 29
- DSP-AMAS-2 pag. 29
- RTC-HUB pag. 31



OUR FULL RANGE IN D CLASS

The world's smallest amplifier line with the best power-to-size.

Hi-Low level inputs and auto-sense power-on, slots for the G_cards and obviously Made in Italy! No more installation problems in the car. They are easy to place everywhere. Featuring a tuneful and refined sound and a surprising bass banging.



D2 100.4

GLADEN D2



D2 150.2

		D2 500.1	D2 150.2	D2 100.4
Stereo power RMS @40hm	W		2 x 150 [@14V4]	4 x 105 [@14V4]
Stereo power RMS @20hm	W		2 x 225 [@13V8]	4 x 130 [@13V8]
Bridge power RMS @40hm	W	1 x 475 [@14V4]	1 x 450 [@13V8]	2 x 90 + 1 x 280 [@13V8]
DC-DC converter typology		Unregulated - Push Pull	Unregulated - Push Pull	Unregulated - Push Pull
Input sensitivity range	V	0.3 ÷ 14	0.35 ÷ 16	0.35 ÷ 16
Autosense power-on (High Level only)		3 modes: OFF, BTL, SE	3 modes: OFF, BTL, SE	3 modes: OFF, BTL, SE
REM out		yes (max 100mA)	yes (max 100mA)	yes (max 100mA)
HP frequency range	Hz	20 ÷ 175	20 ÷ 175	20 ÷ 175
LP frequency range	Hz	45 ÷ 310	45 ÷ 310	45 ÷ 310
HP and LP filter slope	dB/Oct	12	12	12
Overall efficiency		> 75%	> 75%	> 75%
Internal fuse	A	1 x 40	1 x 40	1 x 40
Dimensions	mm	151 x 144 x 41	201 x 144 x 41	201 x 144 x 41
Weight	g	990	1190	1230
Finishing		Silver (brushed)	Silver (brushed)	Silver (brushed)



COMPATIBLE ACCESSORIES:

G-CARDS
RTC

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WE HAVE IT SMALL

(...and we are proud of it)

This statement may sound awkward but it is the truth!

In Rocco Siffredi's (Italian porno star) mother-country such a statement would make more than one person smile, but I hope you've got to know us so far.

As far as performances are concerned, MOSCONI never jokes!

In the past, customers used to say to us: <<It's too large, I don't know how to fit it into...>>

And we used to reply: <<Come on, it's not bigger than the others! There are even bigger ones!>>

What can we do? Shall we cut a piece out? We can't!

If ours is too big, that's how it is!

Hence we have become aware that "big" doesn't always mean "better", even if we were convinced that our amplifiers were...

Hey, wait! What were you thinking of?? Come on! It was as clear as water that we were referring to amplifiers and not to "that thing"! You malicious guys, hopeless little porkies!

Well, made it clear that we are not writing an ambiguous essay, let's go back to the point. We were saying... we have always been convinced that our AMPLIFIERS were "normal", that is they had more or less standard sizes, the ones that are expected in similar devices. On The contrary, in many cases we can affirm that some of our devices are far more compact than our competitors'.

Market trends are quite clear and they're going one single direction: reduce sizes and increase performances.

Well, one thing is writing about it, another is realizing it... Trying to comply with the market trends, about one year ago we produced the D2 line, a group of revolutionary products which perfectly realized this idea. Compact, powerful, versatile and efficient! Simply perfect!

Our customers were happy at last and no longer complained about dimensions.

Many even congratulated on the magnificent result achieved. A success from every point of view, however... Have you ever experienced that feeling of unrest and discontent that never leaves you even if you know that you have realized something extraordinary that nobody has?

Besides nobody complains... so why should you be so restless?

But yes, absurd questions and thoughts are the fuel of my job, my ever full tank. Without them I would be an ordinary technician. Luckily, as Michele Salvemini (aka Caparezza, an Italian singer) says, God has endowed me with a brain and if I didn't use it I would betray Him.

Every now and then, my brain "farts" but it is exactly in those occasions that the best ideas come up. In fact, they are so absurd that there is nothing to lose or to win.

Where I come from, we say they are the typical ideas "to Santa Claus dead".

But what does all this have to do with PICO? It does, it does and how it does!

As I was saying before, the D2 line had perfectly hit all the goals, so we could have relaxed for a while and enjoyed the fruits of hard work with deserved satisfaction.

However the desire to verify and to see to what extent you can push is like a drug. Once you have tried it, it is difficult to give up.

One of our HLA-SUM (check what it is) had been hanging on my desk for some time, when suddenly the spark flared up.

Do you remember in the 1980s when you were playing a videogame and suddenly the word "CHALLENGE" appeared on the screen? Well, it was as clear as the sun for me... and I thought: <<I want a stereo amplifier with 100W per channel to fit into this case>>. The sentence ended... <<...I know, I am a fucker!>> but I'm not proud of it.

But you know what? I did make it! And this is bad because a "respectable" technician who confirms to himself that his ideas work, satisfying for the moment the endless wish of experiment and challenge that characterizes his whole life (like a hungry vampire), loses interest in what he is doing and necessarily needs to go beyond.

Unfortunately this is what happened to our small "baby" which had been forgotten for more than one year, until one day the boss saw it left alone on my table... Moved by sincere pity, he took the tiny piece in his hands and said: <<It's time we showed it to someone!>>.

And now you can judge if it is worth!

Filippo Kania

GLADEN PICO



"A high-efficiency class D car stereo amplifier with amazing sound, the PICO 2 is the world's smallest audiophile sound quality amplifier."



Stereo power RMS @40hm	W	2 x 80 [14V4]
Stereo power RMS @20hm	W	2 x 100 [14V4]
Bridge power RMS @40hm	W	1 x 200 [14V4]
DC-DC converter typology		Unregulated - Push Pull
Input sensitivity range	V	0.35 ± 16
Autosense power-on (High Level only)		only BTL
HP frequency	Hz	80Hz
LP frequency	Hz	80Hz
HP and LP filter slope	dB/Oct	12
Overall efficiency		> 75%
Internal fuse	A	1 x 15
Dimensions	mm	87 x 80 x 30
Weight	g	310
Finishing		Silver (brushed)



HI-END DSP

DSP8T012 is the new leader and reference in its own class of DSP. The best in its world, at this moment. A game changer. With the native Sample Rate of 192kHz @ 24bit, in 4K High Resolution and an incredible DSP power, it makes even complex work absolutely lossless. This is our most advanced DSP ever. People love using things easily. That's why MOSCONI developed **BTOM/ Auto-fade Trigger Option Mode**.

It is so simple to choose your own sources automatically. MOSCONI DSP plays intuitively your options. So whether you are streaming lossless music or listening your head unit, you - and your ears - will be completely immersed into the Hi-End sound quality.

- 8 analogue inputs, 2 digital inputs
 - 12 analogue outputs, 1 digital output
 - Native Sample Rate: 192KHz @ 24-bit
 - DSP core Analog Device (294.912 MHz, 32-bit SigmaDSP)
 - A/D converter Cirrus Logic (8 CH)
 - D/A converter Analog Device (12 CH)
 - AUTONSENSE for auto switch-on: OFF - BTL - SE
 - Smart signal REMOTE-OUT control
 - Detecting power wiring defects for amplifiers and DSP
 - Fully balanced input interface
 - Possible to control by RCD, RC-MINI and MOS_BTМ (optional)
 - Streaming Bluetooth by MOS-BTS and AMAS-2 (optional)
- *More features and appearance to be defined.



COMPATIBLE ACCESSORIES:

DSP-RCD and DSP-RC MINI	pag. 28
MOS-BTM	pag. 29
DSP-AMAS-2 (whit SP-DIF)	pag. 29
MOS-BPS	pag. 29
RTC-HUB	pag. 31

GLADEN DSP 8T012



24bit
192kHz

TOTAL CONTROL

- 6- channel input, 8- channel output
- Highest resolution, e.g. time delay in 0,02 msec/step
- All settings in real-time
- Aux input with auto-sense for stereo signal, hands-free and mobile navigation
- USB and BT adapter, for adjusting by PC and Android smart phone apps
- Low- or High-level input with auto-sense (only by High-Level)
- 4 presets
- Mixer matrix to realize all possible mixtures and couple input and output channels as desired
- Intuitive User Interface and video tutorials to avoid an instruction book.
- Operating also without mouse, only with keys for an easy adjusting in the car
- DSP Technology from GLADEN AUDIO, Germany
- Made by MOSCONI, Italy



SP-DIF MULTI

- Two SP-Dif inputs (optical, digital)
- One coaxial input (digital)
- One SP-Dif output (optical, digital)
- One coaxial output (digital)
- A connector for an optional BT Audio Steaming Module, AMAS. It will support A2DP in the high-resolution EDR specification by any source like mobiles/pads/tabs.
- Microphone connector to use as a hands-free-set too.

SP-DIF

- Two SP-Dif inputs (optical, digital)



DSP-AMAS

Advanced Multi Audio Streaming

- AMAS, Advanced Multi Audio Streaming, with Bluetooth technology specially made by MOS to be used exclusively with the DSP6T08 equipped with an external ANTENNA and 2m extension cable
- AMAS requires SP-DIF MULTI



DSP-RCD (optional)



GLADEN DSP 6T08



Input Mode:		Low Level (LL) / High Level (HL)
Input Impedance:		> 10 [Typ 14.3] (LL) / 470hm (HL)
Input Sensitivity:	Kohm	
Input Voltage Regulation:	Vrms	2 ÷ 8 (LL) / 5 ÷ 20 (HL) - via on-board potentiometers
Max Output Signal:	dB	-12 ÷ 0 - via on-board potentiometers
S/n Ratio:	Vrms	8
Thd Distortion:	dB "A"	>102 (typ. 105)
Supply Voltage:	V	<0.003% @ 1Vrms
Autosense:		11 ÷ 15
Remote Output:	mA	two operative modes (High Level mode only)
Communication Peripherals:		130 max
Optical Board:		on-board USB, Bluetooth socket, Remote controller
Fuse:		Optional
Dimensions:	A	N.D.
Finishing:	mm	150x125x40
		Brushed

COMPATIBLE ACCESSORIES:

- DSP-RCD and DSP-RC MINI pag. 28
- MOS-BTM pag. 29
- DSP-AMAS-2 (whit SP-DIF) pag. 29
- MOS-BPS pag. 29
- RTC-HUB pag. 31



SMART CONTROL

- Performance like DSP 6to8
- Same size like DSP 6to8
- Silver finishing
- Available as **DSP 4T06** and **DSP 4T06 DIF**



Connect to the SWITCH module for 4 presets

Connect to an RTC module for "MASTER" control

GLADEN DSP 4T06

Main differences between DSP 6T08 & DSP 4T06

	Analog inputs	Digital inputs	Analog outputs	Digital outputs	Control	Input selection	Filters				EQ full parametric				EQ input
							1+2	3+4	5+6	7+8	1+2	3+4	5+6	7+8	
6T08	6	With optional SP-DIF MULTI board: 2x Toslink, 1x Coax, 1x BT Audio With optional SP-DIF board: 2x Toslink	8	With optional SP-DIF MULTI board: 1x Toslink, 1x Coax, With optional SP-DIF board: 2x Toslink	With optional RCD Display, RC-MINI, App via BT module (Android and BlackBerry)	Mixer	5	5	4	4	30	25	9	9	9
4T06	4	NA	6	NA	With optional RCD Display, RC-MINI, RTC, Preset-Switch App via BT module (Android and BlackBerry)	Mixer	5	5	4		30	25	9		
4T06 DIF	4	1x Toslink + 1x Coax	6	1x Toslink + 1x Coax		Mixer	5	5	4		30	25	9		

**Connect to
another
RTC module
for "SUB Ch5
& 6" control**

Easy remote control

Possible to control by RCD (Remote Control Display), RC-MINI, BT module and analogue devices
Analogue controls by RTC modules for volume level and/or sub level (cheap and easy)
Preset selection by a switch (cheap and easy to install)
All devices are as options

COMPATIBLE ACCESSORIES:

DSP-RCD and DSP-RC MINI
MOS-BTM
DSP-AMAS-2 (only DSP4T06DIF)
MOS-BPS
RTC
MOS-SWITCH

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PROCESS YOUR ANALOG SIGNAL

FSA

FRONT STAGE ADJUSTER (Similar to a Time Delay)

The sound is confused?

Adjust your staging and all will be in the right place

- Effective economic alternative to the "time delay" of car radios and DSP
- Very easy access by DSP "Pre-Drive Side Out".
- The FSA will be just between the Cinch connector front left plugged.
- Double layer PCB in SMT
- The FSA is also a HLA, together radios without Preamp are used.

HLA

HIGH LOW ADAPTER for 2- or 4-Channel System

For all radios without PRE outputs

- HLA.DUAL: 4-CH (L / R front & L / R rear) **60x35x20 mm**
- HLA.SLIM: 2-CH (L / R) **60x35x8 mm**
- Maximized engineering to reduce the dimensions while maintaining high-level reliability and acoustic performances
- Plug & Play for hidden installation
- Generates a fully automated remote signal to the amplifier with high power output (B.T.L.)
- Optimized signal path to eliminate any kind of interference, noise and switch-on/off bump/pop
- S / N Ratio > 100dB
- Total Harmonic Distortion (T.H.D.): 0.003%
- Double layer PCB and massive use of SMT technology.



ANALOG PROCESSORS



HLA.PRO

HIGH LOW ADAPTER at Professional level
For all radios without PRE outputs

- Active signal processor circuitry for a superior sound performance, optimized A class working operational amplifiers, full immunity to any kind of interference, noise and switch-on/off bump/pop
- 4-ch power inputs and 4-ch line level outputs on solid RCA connectors
- Double layer PCB and full Surface Mount Technology (SMT)
- Switch-on signal (Remote) generation for high power outputs B.T.L. and low power output S.E. (by the external switcher)
- Suitable for any type of radio and amplifier
- Total harmonic distortion (THD) extremely low
- Low operative current consumption (less than 30mA @ 14V4) and very low quiescent current (less than 0.8mA @ 14V4)
- Very small size for easy installations: 80 x 83 x 30 mm!
- Plug & Play, non-intrusive installation
- Professional aluminum housing, silver finishing



HLA.SUM

HIGH LOW ADAPTER with SUM function
For all radios without PRE outputs

- Active signal processor circuitry for a superior sound performance with 4-ch power inputs and 4-ch line level outputs on solid RCA connectors
- SUM capability on CH-1 outputs to rebuild filtered signals (multi-way systems) and BALANCE capability between CH-1 & CH-2 inputs (SUM mode only) to optimize the system adjustments
- Switch-on signal (Remote) generation for high power outputs B.T.L. and low power output S.E. (by the internal switcher)
- Suitable for any type of radio and amplifier
- Optimized A class working operational amplifiers, full immunity to any kind of interference, noise and switch-on/off bump/pop
- Total harmonic distortion (THD) extremely low
- Low operative current consumption (less than 30mA @ 14V4) and very low quiescent current (less than 0.8mA @ 14V4)
- Double layer PCB and full Surface Mount Technology (SMT)
- Very small size for easy installations: 80 x 83 x 30 mm!
- Plug & Play, non-intrusive installation
- Professional aluminum housing, brushed finishing

THE CONTROLLERS

DSP-RCD

REMOTE CONTROL DISPLAY to handle subwoofer volume, master volume, mute, balance, fader, presets and display brightness.

Dimensions: L.153 - P.23/30 - H.43 mm



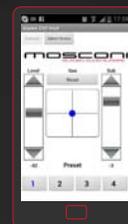
DSP-RC MINI

REMOTE CONTROL to handle subwoofer volume, master volume, mute, presets and possibility to connect an external IR remote (for fader, balance, steering wheel control, ...)

Dimensions: L.78 – P. 23/30 – H.43 mm

Can be used with:

DSP8T012, DSP6T08, DSP4T06, DSP4T06DIF, D2-100.4DSP, D2-80.6DSP, ONE-130.4DSP and ONE-60.8DSP



MOS_BTM

BLUETOOTH MODULE

It allows to connect the DSP to a PC, smartphone or tablet via Bluetooth, wireless, instead of the USB cable.

It allows to control the main features: vol. level, sub level, fader, balance and the 4 presets.

App available only for Android and BlackBerry devices (not possible with Apple, there aren't drivers for App via BT).

Can be used with: ONE-130.4DSP, ONE-60.8DSP, DSP8T012, DSP6T08, DSP4T06, DSP4T06DIF, D2-100.4DSP and D2-80.6DSP

DSP_AMAS-2

ADVANCED MULTI AUDIO STREAMING 2

Module for High Quality Bluetooth Streaming. It supports the A2DP profile and streams music formats like WAVE, AAC, MP3 and lossless like PCM and FLAC.

AMAS-2 is the cheap version of the very well known AMAS, winner of the EISA award 2013-14. It differs because it is an external module, a Toslink cable (not supplied) is necessary for the connection to the DSP. A separate supply is required.

AMAS 2 can be connected to any DSP with an optical/digital input.

Can be used with: DSP6T08DIF, DSP4T06DIF, D2-100.4DSP and D2-80.6DSP.

MOS_BTS

BLUETOOTH STREAMING MODULE

Module for High Quality Bluetooth Streaming specially made by MOS to be used exclusively with the D2 100.4 DSP and D2 80.6 DSP.

It supports the A2DP profile and streams music formats like WAVE, AAC, MP3 and lossless like PCM and FLAC.

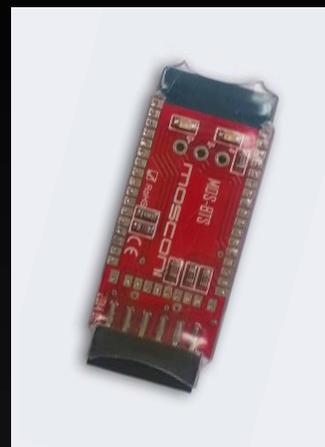
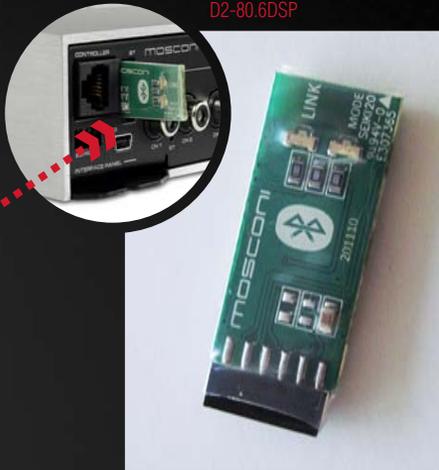
Can be used with: D2-100.4DSP and D2-80.6DSP.

MOS_BPS

BACKUP SUPPLY MODULE

It allows to avoid the annoying switching off of the DSP in the cars equipped with Start&Stop system.

Can be used with: DSP6T08, DSP4T06 and DSP4T06DIF



G-CARDS

G_HOC

HIGH-END OPTIMIZING CARD

Car specific improvements on one card:

- Singers moves to the middle (like time delay)
- Left/Right level compensation (balancing)
- Adjust your car acoustics (equalizing)
- Double layer PCB in SMT

Available for many different cars:

AUDI A3 / A4 / TT

BMW Serie 1 / Serie 3 / Serie 5

BMW MINI

FORD FOCUS II

MERCEDES Classe C

OPEL ASTRA

PORSCHE BOXSTER / CAYENNE / CAYMAN

PEUGEOT 207 / 307

SEAT LEON

SKODA OCTAVIA

VOLKSWAGEN GOLF 3 / 4 / 5 / 6

VOLKSWAGEN POLO 3 / 4 / 5

More info and complete list of car models on mosconi-system.it

Can be used with:

A CLASS, ZERO, AS, ONE and D2



G_LP & G_HP

LOW-PASS and HIGH-PASS FILTER CARD

They are crossover cards for full active applications.

- Each card contains a complete 12 dB crossover (not just resistors)
- This can also be used for built-in crossover
- Double Layer PCB in SMT

Available frequencies

HIGH PASS (Hz):

25, 30, 60, 70, 80, 90, 100, 120, 150, 200, 250, 300, 400, 500, 600, 700, 800, 2000, 2500, 3000, 3500, 4000, 5000, 6000, 6500, 7000, 8000.

LOW PASS (Hz):

50, 60, 70, 80, 400, 500, 600, 700, 800, 2000, 2500, 3000, 3500, 4000, 5000, 6000, 7000,

More info on mosconi-system.it

Can be used with:

A CLASS, ZERO, AS, ONE and D2



G_FSA

FRONT STAGE ADJUSTER CARD

The sound is confused?

Adjust your staging and all will be in the right place.

- Effective economic alternative to the "time delay" of car radios and DSP
- Double Layer PCB in SMT

Can be used with:

A CLASS, ZERO, AS, ONE and D2



G_BTL_MONO

BTL CARD

This card has been mainly thought to be used when the amplifier works in BTL on a mono speaker, especially if the speaker has a low impedance.

- Assures a perfect power balancing between channels because the mono signal is processed out of the power stages;
- Increases the amplifier gain of a +6dB factor;
- Activates the RTC behaviour allowing the remote volume control.

Can be used with:

ZERO (in bundle with ZERO1), AS, ONE and D2



ANALOG CONTROLLERS

RTC_MOS

REMOTE VOLUME CONTROL

It is an indispensable device for those who want full subwoofer control.

From your seat you can adjust the volume of the subwoofer in a simple and effective way, without entering the car radio menu each time.

It consists of two units: the card to be inserted into the amplifier and the device (RTC) with remote volume, equipped with cable.

- Plug and Play
- Double Layer PCB in SMT
- Components with high quality audio
- Adjustment of 0 to-20dB

Can be used with: ZERO and AS



RTC

REMOTE VOLUME CONTROL

It is an indispensable device for those who want full subwoofer control.

It consists of the device (RTC) with remote volume, equipped with cable.

- Plug and Play
- Double Layer PCB in SMT
- Components with high quality audio
- Adjustment of 0 to-20dB

Can be used with:
DSP4T06, DSP4T06DIF, ONE, D2
and RTC-HUB

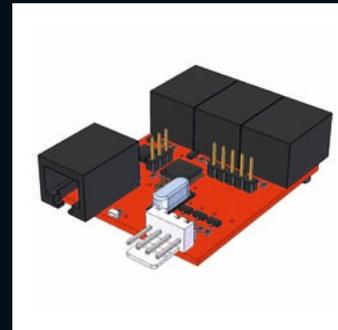


RTC-HUB

ANALOGUE INTERFACE FOR RTC

It's a remote control interface that enables usage from analog RTC & MOS_SWITCH (at the digital RCD plug-in location) for all MOSCONI DSP (not needed for DSP4to6, DSP4to6DIF and ONE 120DSP).

Can be used with:
DSP8T012, DSP6T08, ONE 130.4DSP, ONE
60.8DSP, D2 100.4DSP and D2 80.6DSP



MOS_SWITCH

SWITCH MODULE

It is a rotary switch for the selection of the 4 preset available.

It is provided with a 5mt cable

Can be used with:
DSP4T06, DSP4T06DIF and RTC-HUB



WIRINGS

CABLES

Plug & Play wiring harness for 2-channel and 4-channel systems recommended for OEM applications

Can be used with: ZERO, ONE and D2

QUADLOCK 4CH 2.5m
QUADLOCK 4CH 5m



QUADLOCK 2CH 2.5m
QUADLOCK 2CH 5m



ISO 2CH 5m



QUADLOCK LOOP



HLRCA-M

Male RCA to Terminal Block adapter (couple)



CUSTOMIZATIONS

AS LED FRAME

Plastic frames equipped with LED lighting

It makes your installation unique.

Designed for those who want a cool appearance of their own amplifier.

An alternative to neon lights, with the possibility of re-creating special lighting effects.

- High-brightness RED or BLUE LEDs in SMT
- Switch on/off controlled by the amplifier

Can be used with: AS





PLAYITALIAN

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