



# COMPETITION AMPLIFIERS

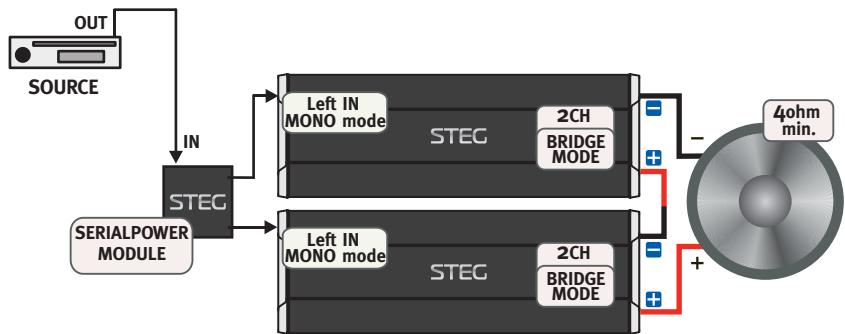
# STEG

MICRO  
PROCESSOR  
ONBOARD

STEG - produced and distributed by:  
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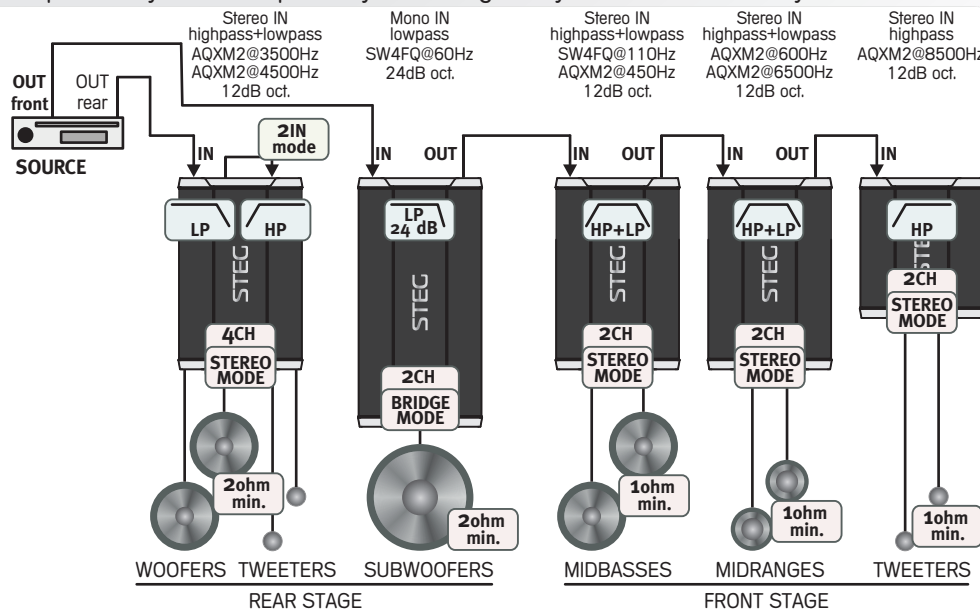
Example: SERIALPOWER 2IN1 configuration (two K2 04 amplifiers)




TOTAL POWER: 4800 WATT RMS

SERIALPOWER is one of the outstanding features associated with the new K competition stereo units, created in order to fully enjoy power management of subwoofer used in SPL competitions. The SERIALPOWER 2IN1 is the module which synchronizes signal inputs of two K units allowing the serial connection of speaker outputs, as though it were a single amplifier with double of power.  
The picture shows two K2 04 connected to a 4 ohm subwoofers, ready to drive it with an astonishing 4800 WATT RMS power.

Example: 6 ways multi-amplified system designed by SMMS functions only



\* STEG POWER DATA: power supply => 11 Volt | THD distortion = 0,3 % | temperature = 25 °C | MINIMUM GUARANTEED POWER, ALWAYS RECOGNIZABLE ON PRODUCT.

	CEA-2006 A COMPLIANT DATA		STEG - POWER DATA *						ON-BOARD EXCLUDIBLE CROSSOVERS FEATURES					MISCELLANEOUS			
	POWER RATING Watts per channel @ 4 Ohms <1% THD+N	SN RATIO reference: 1 Watt into 4 Ohms	STEREO MODE	BRIDGED	(2 units) 2IN1 SERIALPOWER	MOSFETS		FILTERS	Q	F. ONBOARD SWITCH SW4FQ 4 values	F. AQXM2 55 values	SLOPE dB	INPUT LEVEL	DAMPING FACTOR	DIM.		
			WATT RMS	WATT RMS	WATT RMS	N°	TOT.									N°	TOT.
2 CHANNELS	K 2   04	345x2	>85 dBA	1200x2 @1ohm 650x2 @2ohm 335x2 @4ohm	2400x1 @2ohm 1300x1 @4ohm	4800x1 @4ohm	16 x 60A	960 A 14 x 125W 14 x 127W	3528 WATT	1x HP 1x LP BP(HP+LP)	0,7/1,2 0,7 0,7	60/80/100/120 60/70/80/90 (60/80/100/120)+(60/70/80/90)	22+8500	12/24 (MONO mode only)	0,2+5	>1000	640 232 56
	K 2   03	255x2	>85 dBA	875x2 @1ohm 470x2 @2ohm 245x2 @4ohm	1750x1 @2ohm 940x1 @4ohm	3500x1 @4ohm	8 x 80A	640 A 10 x 125W 10 x 127W	2520 WATT	1x HP 1x LP BP(HP+LP)	0,7/1,2 0,7 0,7	60/80/100/120 60/70/80/90 (60/80/100/120)+(60/70/80/90)	22+8500	12/24 (MONO mode only)	0,2+5	>1000	500 232 56
	K 2   02	165x2	>88 dBA	555x2 @1ohm 305x2 @2ohm 155x2 @4ohm	1110x1 @2ohm 615x1 @4ohm	2200x1 @4ohm	4 x 80A	320 A 6 x 125W 6 x 127W	1512 WATT	1x HP 1x LP BP(HP+LP)	0,7/1,2 0,7 0,7	60/80/100/120 60/70/80/90 (60/80/100/120)+(60/70/80/90)	22+8500	12/24 (MONO mode only)	0,2+5	>1000	340 232 56
	K 2   01	115x2	>89 dBA	365x2 @1ohm 205x2 @2ohm 105x2 @4ohm	730x1 @2ohm 410x1 @4ohm	1460x1 @4ohm	4 x 60A	240 A 4 x 125W 4 x 127W	1008 WATT	1x HP 1x LP BP(HP+LP)	0,7/1,2 0,7 0,7	60/80/100/120 60/70/80/90 (60/80/100/120)+(60/70/80/90)	22+8500	12/24 (MONO mode only)	0,2+5	>1000	250 232 56
4 CHANNELS	K 4   02	120x4	>89 dBA	210x4 @2ohm 115x4 @4ohm	420x2 @4ohm		8 x 60A	480 A 8 x 125W 8 x 127W	2016 WATT	1x HP/LP 1x HP/LP	0,7 0,7	60/80/100/120 60/80/100/120	22+8500	12	0,2+5	>1000	500 232 56
	K 4   01	85x4	>91 dBA	145x4 @2ohm 80x4 @4ohm	290x2 @4ohm		4 x 80A	320 A 4 x 200W 4 x 127W	1308 WATT	1x HP/LP 1x HP/LP	0,7 0,7	60/80/100/120 60/80/100/120	22+8500	12	0,2+5	>1000	340 232 56

AQXM2 MODULES FREQUENCIES (Hz): (22 default), 25, 30, 33, 35, 38, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 150, 180, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1800, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 8500.



# K

## COMPETITION AMPLIFIERS

K2|01 K2|02 K2|03 K2|04 K4|01 K4|02

- “SERIAL POWER” MODE CONNECTION
- 1ohm STEREO/2ohm BRIDGE DRIVE
- “AUDIOPHILE” SOUND
- S.P.L. ATTITUDE
- CEA-2006 A COMPLIANT
- STABILIZED POWER SUPPLY DOWN TO 11 VOLT BATTERY
- PERSONAL COMPUTER “STEG LINK” CONNECTION
- PROTECTIONS SYSTEM CONTROLLED BY MICROPROCESSOR
- USER AND INSTALLER PERSONAL INFO DIGITAL STORAGE
- DATA PROTECTION PASSWORD
- DIGITAL SERIAL NUMBER
- DOUBLE X-OVER`S FREQUENCY REGULATION TECHNOLOGY
- “SMMS” STEG MULTIWAY MODULAR SYSTEM
- DOUBLE “INTELLISPEED” FORCED COOLING SYSTEM
- MADE IN ITALY

# STEG

### OPTIONALS AND ADD-ON

- “MY STEG MANAGER” HARDWARE & SOFTWARE PC CONNECTION SET
- VOLUME AND BASSBOOST REMOTE CONTROLS
- STEGLINK HUB FOR UP TO 10 AMPLIFIERS CONNECTION
- “SERIALPOWER” CONNECTION MODULE
- 56 VAULES OF AQXM2 FREQUENCY MODULES



### QUALITY

#### PROJECT

Adherence to absolute quality criteria is the basis for the K competition outlook idea. Total overall harmony was possible as a result of the care dedicated to developing every single aspect. Even last detail was designed to perform its specific function with the greatest efficiency.

#### FINEST MATERIALS

The main structure and the edging covers are 100% aluminium, skillfully treated and crafted. The PCB is made from military and professional standards compliant materials, reinforced with copper-gilt bars in order to manage the high current levels in use.

#### COMPONENTS

First class and high precision ones as, selected MOSFETs, robust solid metal terminals to accommodate heavy duty cables, very low tolerance passive components.

#### DESIGN

Shapes drew by own function, elegant but nevertheless sophisticated line. Designed to dissipate heat as quickly as possible, the amplifiers employ INTELLISPEED fans located at the hottest points, the speed of which varies in accordance with the temperature.

#### SOUND

The output stage and the preamplifier constitute a synthesis of STEG know-how. They integrate exclusive circuitries as, G.R.I.P.S. (which eliminates the effects of disturbances caused by the car), Straight-In (for a reduced signal path), and the new audiophile sound drivers: integrated circuits fully made from discrete components only, the real core of the K competition sound.

### ENERGY

K competition naming for these electronic, represents STEG's commitment to producing amplifiers designed not only with a view to the best sounding, but also competitions and SPL applications. The power rating, high current levels and astounding dynamics are features guaranteed by a project that has cut no corners whatsoever. The extensive use of powerful devices, the sharing of power across many parallel transformers (on photo, the K2.04, equipped with 4 transformers and 4 inductors), and the use of a highly efficient heat dissipation system combine to guarantee the necessary energy and reliability for uninterrupted driving of any type of load, down to 1 ohm.



SERIALPOWER is an exclusive K stereo models configuration which allow the serial connection of the output stages in order to use two units power as a single double powerful amplifier.

### FUNCTIONALITY

The many features on the input panel constitute the SMMS (STEG MULTIWAY MODULAR SYSTEM). Dual, separate and fully independent LP and HP filters - High-pass, Low-pass, Band-pass, Flat mode - Selectable 12/24 dB slope - BY-PASS RCA signal output - 0.7/1.2 Q factor filters - Double frequency regulation technology with a 4-positions switch SW4FQ or AQXM2 modules. SMMS allows you to create sophisticated multi-way systems (3,4,5,6 and over, depending on installation requirements) thus avoiding the need for expensive and noisy external crossovers that greatly distort the sound.



The cover features an example of a 6-way Front/Back/Sub multi-amplified system, built exclusively using the integrated functions of K amplifiers.

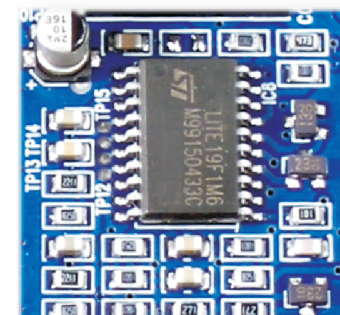
### CONTROL AND COMMUNICATION

#### MICROPROCESSOR

K competition amplifiers make use of an innovative management system for operative duties, with respect to traditional analogical techniques, every supervising and control process are delegated to a speedy Microprocessor devices, which is also responsible for handling new key communication features.

Continuous monitoring of the operating status of the STEG's circuitry enables the system to protect the amplifier from faults, by checking the power supply, ground connection, short circuits and Direct Current on the speaker outputs, power-on/off bumps, and dangerous heating of the semiconductors (also adjusting dynamically cold air fluxes).

If required, the system resorts to muting or, in extreme cases, it powers off the amplifier saving circuitry and connected devices. Each safety event is relayed via the status LEDs on the input panel and, most important of all, it is recorded in detail in the internal memory, as with the “Black Box” on airplanes.



#### PERSONAL COMPUTER

Data recording capabilities allow new features to be added to K competition functioning. STEG create an hardware/software set that enables amplifiers to communicate with the Personal Computer via STEGLINK connection. MY STEG MANAGER is the the program tha interacts with the microprocessor inside and retrieves from its memory the information stored during circuitry operation.



With the aid of a simple and intuitive graphic interface, MY STEG MANAGER displays the status of the amplifier in real time on the monitor screen, relaying essential operational parameters such as: power supply and remote/on voltage, running temperatures (right and left side of the heat sink), status of the cooling fans and, most of all, a detailed roundup of the protections system. By

analyzing this information, the user can quickly detect the cause of any fault.

In addition to the real-time status of the amplifier, MY STEG MANAGER offers a historical view of protection events. From one of the menus, you can access a specific section that gathers operative status details and generates a graphical summary of the data regarding the last 14 protection operations.

The program collects data from the amplifier and provides accurate information regarding temperatures, voltages and operations performed, with an analysis of the graph curves that is both accurate and useful for overall checking of the audio system and for detecting installation errors.

Read but also write-down, Infact, the software consent you to record

STEG CAR AUDIO

Centro Installazione:

Città:  Nazione:

Nome:  Cognome:

Città:  Zip Code:

N°Tel:

personal data and installer data in encrypted area of memory. These information will join the digital serial number

(factory-set) generating a digital signature and converting each amplifier as unique-piece, resistant to unlawful access and always recognizable, regardless of tampering or theft.

