

F MOD 4 channel FIRTEC™ DSP module



The 4-channel speaker controller plug-in unit with digital signal processing for the amplifiers of the KS AUDIO CA 4D and TA 4D series. A unique and convincing solution for perfect sound and easy handling.

The KS AUDIO **F MOD** controller module replaces the FIRMOD 1+2 modules that have been in production for 12 years. Its special features are digital signal processing with FIR filter technology and the complete implementation of all KS AUDIO speaker systems. The configuration of your loud-speaker system is menu-driven directly on the module, with power outputs automatically assigned the correct function:

- 4 Single channel operation mode
- Bi-amp operation mode
- High-performance bridge operation mode
- Tri-amp with 1 ch. bridge operation mode
- Mix mode operation (any combination of the above modes)

The control and display elements allow very fast and comfortable work: Directional and input keys for the display and a rotary knob for parameters. When the full load is reached, LEDs visible from afar provide information on the use of the limiters.

Besides digital signal processing with FIR filter technology, the special features of the **F MOD** are its full operability and controllability over standard networks. An integrated gigabit switch allows looping through to the next unit. The KS REMOTE PC software allows clear management and graphical control of any number of control amplifiers in groups.

All inputs can be controlled both analogue and digital. Simultaneous digital and analogue operation is also possible. Optionally, a network transmission via DANTE™ protocol is provided.

Despite the many new possibilities and state-of-the-art technology, the **F MOD** can replace an existing analogue or digital controller by simple front installation. Your sound system is thus once again at the cutting edge of technology.

For years, the 4-channel KS AUDIO system amplifiers have represented a technically and economically unique solution.



4 Kanal FIRTEC™ DSP module ✓

FIR und IIR filters ✓

Kanalunabhängige Prozessoren ✓

Vollständige Freiheit bei der Systemkonfiguration ✓

KS REMOTE Fernsteuerung ✓

Vier symmetrische analoge Eingänge ✓

Zwei AES3 Eingänge - 4 Kanäle ✓

DANTE™ Netzwerkeingang (optional) ✓

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With the freely configurable F MOD, further new possibilities are added: Each channel can operate any loudspeaker. You can specify the operating mode, e.g. full-range or bi-amp, and combine it with a subwoofer. The crossover frequency can also be selected.

The inputs can be freely assigned to the DSP channels, which makes it possible, for example, to control both analogue and digital at the same time - an often useful backup option - or to connect a mobile analogue console in addition to the permanently installed digital console. The routing is clearly displayed in a matrix.

The quality of the inputs has also improved: In analogue mode, 4 channels with 27-bit dynamics are available. Four channels can also be controlled with an AES/EBU signal.

Up to 192kHz sample rate are processed. With the DANTE™ option, a further 4 audio channels can be transmitted.

For signal processing, 4 DSPs are implemented. In addition to the loudspeaker-specific functions and FIR filters, freely programmable parametric filters are now also available.

Via the Ethernet connection, the KS REMOTE software to monitor and adjust all speakers. Each connected loudspeaker appears there as an independent device. All settings can be saved as presets in **F MOD**.

If new speakers or new firmware are available, you can always download a complete update directly to your controller via USB stick.

SPECIFICATIONS

Frequency response	10 - 22.000Hz - without processing
Sample rates	30 - 192 kHz
Signal processing	Four separate independant DSPs
Speaker equalization	IIR and FIR filters
Storage	Full KS AUDIO preset library
Control options per channel	Input type & routing, gain, phase, alignment ms, delay m, 3x full parametric EQ, Low and High shelving
User interface	manually directly via the front panel and remote control via KS REMOTE or webserver.
Analog inputs	4x 20dBv balanced
AD / DA conversion	27 bit sigma delta, 64x oversampling
Digital inputs	Zwei AES/EBU - 4x DANTE™ (optional)
Operating modes	<ul style="list-style-type: none"> - Single-channel mode - Bi-amp mode - Powerful bridge mode - Tri-amp mode - Mix mode (any combination of the above modes)

0.6kg | 1.32lb