

- 2 Independent Channels
- Fits in Kemo 21 Series Racks
- Input Gain to 60dB
- Single ended / differential Input
- IEPE (ICP®) transducer power
- Easy to use
- 3 manually selectable frequencies with 1200 filter modules
- 255 manually selectable frequencies with 1600 filter modules



The Kemo CardMaster 21.2 is a 2 channel carrier card. Each channel is configurable with, single ended or differential input, AC/DC coupling, pre filter input gain, and IEPE (ICP®) transducer supply, all set individually for each channel. The CardMaster 21.2 is designed for use with the Kemo 1200 Series filters, or the Kemo 1600 programmable series of filters. These modules are available with a wide range of filter responses to meet a range of applications, many held as stock. With 1200 Series filter modules 3 selectable frequencies, f_a , f_b , f_{a+b} , are set by on board switches, with 1600 series filter modules 255 frequencies are set by on board dip switches. The two channels may be internally linked for applications where bandpass filters are defined using high pass and low pass filter modules. 2 CardMaster 21.2 cards can be fitted to a Kemo 21.2 MiniRack, or 18 in a Kemo 21.18 rack, as shown above.

Applications

- Conditioning IEPE (ICP®) Accelerometer signals, ideal for condition monitoring systems.
- Local filtering and amplification in systems
- Configurable front end for data acquisition systems
- OEM uses to filter noise
- Bandpass filtering

Specification

Dimensions	100 mm x 160 mm x 20 mm. (Kemo 21 Series Rack 1 slot)
Power Input	+/- 15 V @ 160 mA (typical), + 5 Volt, + 20 Volt.
Operating Temperature	-10 to 45 °C, non condensing.
Input	Signal +/- 10 Volt. Single ended/differential input. Coupling DC, AC. IEPE (ICP®) 24V, 1 – 10 mA selectable.
Input Gain	0 - 60 dB, selectable by one resistor per channel.
Trim Adjustments	DC Offset, Gain, both by 10 turn pot.
Output Attenuation	User defined by two resistor network.
Frequency Setting	1200 Modules by 2 resistors per filter pole, giving 3 frequencies (f_a , f_b , f_{a+b}) 1600 Modules by DIP switches, giving 255 frequencies.
Connectors	BNC in and out

Due to continued product development Kemo Limited reserve the right to change specification without notice.

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