

- Compact Size
- Versatile input power 10-30 V DC
- Configurable inputs
- Screw connections
- Input Gain to 60dB
- Isolation between signal and power
- Single ended / differential Input
- ICP transducer power
- Easy to use



The Kemo CardMaster 1 is a small compact filter carrier card with input gain, wide range power input, user configurable settings, and screw terminal connections. The CardMaster 1 is designed for use with the Kemo 1200 resistor set filters, or the Kemo 1600 series programmable filters. It can be fitted into systems as a combined filter amplifier unit, to provide local amplification and filtering of low level noisy signals. The CardMaster 1 is available as a stand-alone filter, in the PocketMaster cases, and in a DIN rail package. The CardMaster 1 accepts a wide range of DC input power from 10 – 30 volts, connections are made by screw terminals. Isolation between the signal and power circuits allow flexible installation in large industrial systems. The CardMaster 1 can be easily configured by a combination of jumpers and user selectable component values. In most cases we supply the unit set up to your specification. OEM users have the ability to configure the CardMaster 1 as required.

The CardMaster 1 is a quick easy solution for problems related to small noisy signals.

#### Specification (typical values)

Power Input	10 – 30 Volts DC, Isolated from signals 2.5 Watt. (with 1208 filter module) Polarity protected.
Connections	5.1 mm (0.2") pitch screw terminals.
Indicators	On board power on red LED, connections for additional external LED
Operating Temperature	10 to 45 °C, non condensing.
Input Coupling	DC / AC (with dual line AC coupling for differential input)
Input Mode	Single ended / Differential / IEPE (24V, 1 - 10 mA, set by single resistor)
Input Impedance	> 1 MΩ
Input Gain	0, 20, 40, 60 dB, and user selectable. Set by DIP switches.
Bandwidth	0 dB gain, > 600 kHz
Output Impedance	50Ω direct from filter module
Trim Adjustments	DC Offset, Gain. Multi-turn pots.
Frequency Setting	1200 Modules by resistor. 1600 Modules by DIP switch.
Dimensions	95 x 60 x 20 mm (3.7 x 2.4 x 0.8") (including filter module).
Weight	60 gms (2.2 oz) excluding filter module.
Fixing	4 off 3.5 mm holes, 51 x 91 mm (2.0 x 3.6 ") centres

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

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## PocketMaster 1200 and 1600

PocketMasters are basic easy to use filters Based on the CardMaster 1, fitted in a rugged, portable case, with BNC connectors. PocketMaster 1200 is a fixed frequency unit. PocketMaster 1600 has external controls for frequency and gain. 8 frequency steps, in 1,2,4,8,16,32,64,128 steps, and 4 gain settings of 0,+20,+40 and +60 dB. Power input to both systems is by standard 5.5 x 2.1mm miniature power jack.



## Typical Installations



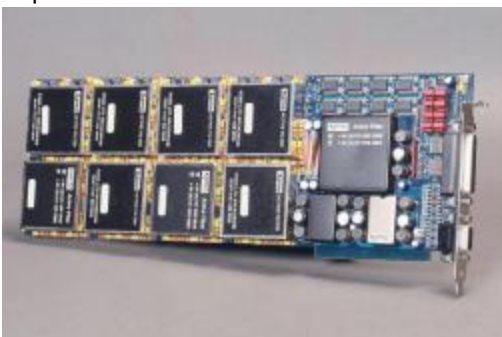
The CardMaster 1 is suitable for a wide range of applications, including local filtering of signals in plant, and on large facilities where noisy signals can be a problem.

Here a typical application shows a CardMaster 1 fitted to a standard industrial case.( NOTE this is a typical application, for illustration only. The choice, and purchase, of enclosure is the users responsibility)

CardMaster 1 can also be fitted to a DIN rail enclosure for industrial applications)

## Other Products

Kemo produce a full range of filtering products, including bench top laboratory filters, multi-channel computer controlled filters and a range of filter modules. We have over 30 years expertise in the signal conditioning field, which usually leads to a simple solution to your filtering and signal conditioning requirements.



CardMaster8 – 8 Channel PC filter Card



VBF 8 – 2 Channel Bench Top Filter

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