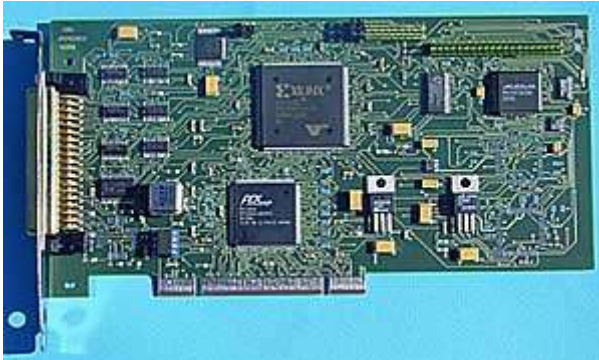


PCM Decoder for the PCI-Bus

In all kinds of measurement systems and especially in telemetry systems PCM signals are used to record or transmit measurement data. To evaluate these PCmdata with a modern PC a decoding interface card for the PCI-Bus is necessary.



Software:

For the use of the PCM2002 Card under the operating system Windows >98 environment the driver and driver installation program is available. Further an easy to use configuration program for the PCM decoder, configuration of the DAC and discrete outputs will be delivered. This program also includes a display of the raw data and can be upgraded according to customer wishes to any calculated display of selected data. There is also a user interface to allow a direct access of the Dual Port RAM.

The presented card PCM2002 has the following features: Inputs:

6 different PCM signals can be decoded. They can have either RS422 or TTL level. The PCM decoding is for each of the 6 inputs fully programmable. Signal formats can be NRZ plus clock, Biphasic L or Miller. Word size can be up to 16 bits, the maximal frame size up to 1024 words (optional more), Bitrate up to 1,5 Mbit.

Outputs:

All data are accessible over a true Dual Port RAM of 6 times 1k X 16 bit. The decoding hardware (Logic Cell Array LCA) writes to this RAM all incoming data sorted by word and frame. Beside software produced screen displays from this data, in hardware there are 24 analogue voltages, produced by 13 Bit Digital-Analog-Converter (DAC) in a range of $\pm 4,096$ Volt / (1 mV/Bit Resolution). They can be set to any input word of any of the 6 input channels. Scaling is free programmable. This output can be used for any pen recorder. 10 digital TTL compatible outputs can be used to indicate status information to any external hardware.



Ing. Büro Grünewald
Tsingtauerstr. 51 A
D-81827 München
Tel: +49-89-4531083-2
Fax: +49-89-4531083-3

micma GmbH
Glonner Str. 19
D-85667 Oberpfaffenhofen
Tel: +49-8093-90594-0
Fax: +49-8093-90594-44
E-Mail: micma@micma.de
<http://www.micma.de>