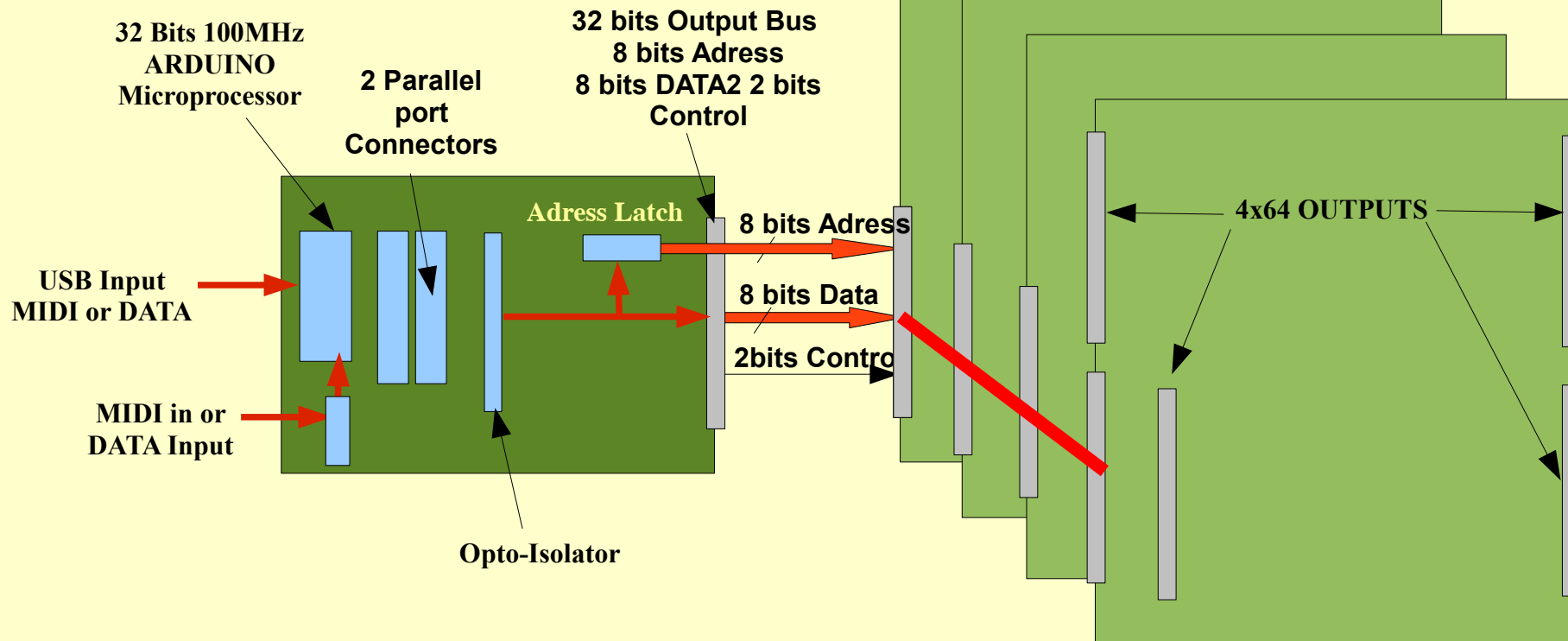


POWER DIGITAL OUTPUT BOARDS GENERAL SCHEMAS



INPUTS : can be STANDARD MIDI, or USB MIDI or Parallel Port : See boards on my website :
KI7_MIDI_USB for classic contacts or HALL effect sensors or KI6x8x8 for FATAR Matrixed keyboards

OUTPUTS : OUT2x64 boards can drive up to 7A per output. (Power Darlington's included onboard)
OUT4x64 boards can drive up to 7A via extra Darlington's. Otherwise, 2803 darlington's can be put onboard.

REMOTE CONTROL DATAS : Can be SERIAL standard MIDI messages, or SERIAL directly register datas
or PARALLEL DATA composed by : ADDRESS, DATA, and 2 control lines : Strobe data and strobe address

Hybrid Organs : 2 programs are running in Parallel :

- A VPO program like GRAND ORGUE or HAUPTWERK or JORGAN . or a **module without computer** : For example the VISCOUNT expander CM100 sampler : In this case, no PC is necessary, but the system is completely closed. (Some users have such a system with my technology)
- And my dedicated software : REAL PIPE ORGAN MODULE CONTROLLER which received MIDI inputs from my boards, outputs MIDI controls to the VPO program . **This program can run on a PC OR on my Arduino 32 bits, 100 to 180 MHz Microprocessor.**