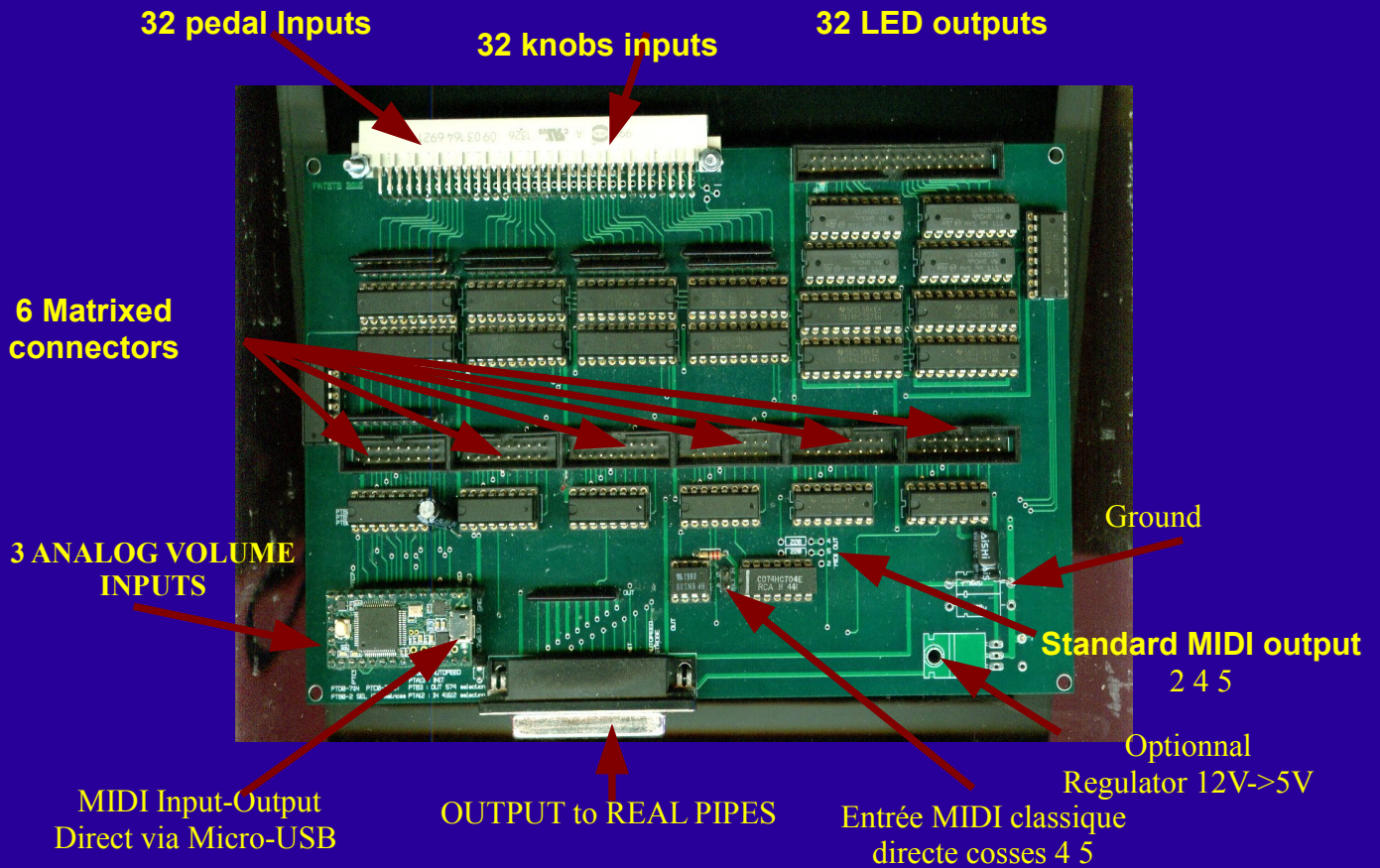


**BOARD KI6x8x8\_MIDI\_USB**  
[http://pascal.leray.free.fr/web\\_org/org\\_en.html](http://pascal.leray.free.fr/web_org/org_en.html)



**TECHNICAL FEATURES**

- Can drive up to 6 matrixed keyboards or pédals
- Convenient for any kind of matrices : 6 connector 1x8x8 or
- 3 connectors 2x8x8
- 32 direct pedal inputs
- 32 knobs inputs
- 32 LCD outputs
- 1 to 3 analog expression (volume) pedals inputs
- Can output velocity parameter on MIDI events NoteOn NoteOff.
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- Can be connected to any real pipe organ tuyaux, unlimited stop number.
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- Classic MIDI input
- Classic MIDI output
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- Can be configured following 2 modes :
- Direct USB Input-Output
- Standard MIDI Input-Output
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- Software upgrades can be loaded directly by the user
- The 100MHz microprocessor ensures a very fast response time, compared with classic MIDI transmissions 31 Kbits/s
- No need for « mergeurs ».
- Can be upgraded with different inputs.
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- Uses all the USB bandwidth for MIDI transmission.
- Can run with any PC or MAC
- Successfully tested under WINDOWS XP, WIN7 ou WIN8 or alone.
- **NO POWER SUPPLY NEEDED** : just a 5v USB supply from any PC or any Smartphone charger.
- Can run alone, without PC or MAC, with a single simple 5V supply
- With smartphones Micro-USB power supply.
- Can drive any pipe organ. See user's manuals on <http://pascal.leray.free.fr> ).

**POWER SUPPLY :** The board is directly supplied by the micro-USB connector. Another or extra input voltage can be done upon request if the board must supply heavy loads. (for example power LEDs). In this case, a 12V->5V optionnal regulator can be added if necessary on the board. Generally, the USB 5V supply is sufficient.

### **MIDI INPUT-OUTPUT**

Pins 2 4 et 5 can be connected to a classic MIDI DIN connector. (5 pins).  
MIDI OUT and IN are directly available on the board.

**64 PINS CONNECTOR** is an industrial 41612 professionnall reliable connector. Very easy to plug and unplug flat ribbons with many wires. It allows to control 64 inputs : for example 32 pedal notes and 32 drawknobs.

**PROGRAMMING :** La carte est fournie avec un logiciel configuré selon les spécifications de l'utilisateur. En cas de changement, il est très facile de télécharger une autre version. Le nouveau microprogramme est fourni sous forme de code exécutable, téléchargeable à partir d'un PC. L'utilisateur peut aussi acquérir un autre module microprocesseur 32 bits, afin de ne pas risquer de détruire sa version précédente. Aucune carte du commerce ne propose cette solution de pouvoir interchanger la partie microprocesseur. Ceci confère au système une très grande souplesse et sécurité.

**LED OUTPUTS:** The board can drive up to 32 LED. For registers or combinations. The connecteur has a +5V and 0V output. But as some power LED can consume more current, an optionnal regulator can be soldered on the board, or an extra 5V supply. In this cas, the microprocessor is supplied by USB, and the rest of the board + LEDs are supplied by the extra-power supply.

This board can be programmed following the user's request : channel numbers, Classic MIDI Input/Output, Volume pedals, and so on.

**This board is the only one which can directly drive up to 6 matrixed keyboards/pedal or 3 matrixed keyboards directly plugabled to FATAR connectors, 3 volume pedal inputs and integrating direct USB output, plus velocity.**

### **CONNECTEUR 1 : matrixed with 1x8x8 pins and one contact per key :**

1 2 3 4 5 6 7 8  
A B C D E F G H

C1 : 1A ; C# : 2A ; D : 3A ; D# : 4A ; E : 5A ; F : 6A ; F# : 7A ; G : 8A ;  
G# : 1B ; A : 2B ; A# : 3B ; B : 4B ; C : 5B ; C# : 6B ; D : 7B ; D# : 8B ;

### **MATRIXED KEYBOARDS WITH 2 MATRIXED CONNECTORS 2x8x8 FATAR :**

#### **LEFT Connector bottom contact :**

1 2 3 4 5 6 7 8  
A B C D E F G H

C1 : 1A ; C# : 2A ; D : 3A ; D# : 4A ; E : 5A ; F : 6A ; F# : 7A ; G : 8A ;  
G# : 1C ; A : 2C ; A# : 3C ; B : 4C ; C : 5C ; C# : 6C ; D : 7C ; D# : 8C ;

#### **LEFT Connector high contact :**

1 2 3 4 5 6 7 8  
A B C D E F G H

C1 : 1B ; C# : 2B ; D : 3B ; D# : 4B ; E : 5B ; F : 6B ; F# : 7B ; G : 8B ;  
G# : 1D ; A : 2D ; A# : 3D ; B : 4D ; C : 5D ; C# : 6D ; D : 7D ; D# : 8D ;