Pin-Function_Matrix

Pin Label	QLAB Function (Keyb. Mode 0 / 1)	GO Button Function (Keyb. Mode 0 / 1)	Ableton Live Function (Keyb. Mode 2)	USB Keyboard (Keyb. Mode 0)	USB Keyboard (Keyb. Mode 1)	USB Keyboard (Keyb. Mode 2)	HW-MIDI Output (Mode 0)	HW-MIDI Output (Mode 1)	Programm Function	Board Function	Comment
2	GO	GO	START/STOP (Arrangement)	Space	Space	Enter	Midi NoteON Nr. 40 / Velocity 110 / Ch.16	MidiShowControl GO		Input	
3	STOP ALL	STOP ALL	P (to be defined in Ableton)	Escape	Escape	P	Midi NoteON Nr. 41 / Velocity 110 / Ch.16	MidiShowControl RESET (PANIC)		Input	
4	PREV CUE	PREV CUE	Selection Up	Arrow Up	Arrow Up	Arrow Up	Midi NoteON Nr. 42 / Velocity 110 / Ch.16	MidiShowControl Standby +		Input	
5	NEXT CUE	NEXT CUE	Selection Down	Arrow Down	Arrow Down	Arrow Down	Midi NoteON Nr. 43 / Velocity 110 / Ch.16	MidiShowControl Standby -		Input	
6	VOLUME UP / 9	VOLUME UP / 9	VOLUME UP	Media Vol. Key Up	9	Media Vol. Key Up	Midi NoteON Nr. 44 / Velocity 110 / Ch.16	MidiShowControl HEX 00		Input	
7	VOLUME DOWN / 0	VOLUME DOWN / 0	VOLUME DOWN	Media Vol. Key Down	0	Media Vol. Key Down	Midi NoteON Nr. 45 / Velocity 110 / Ch.16	MidiShowControl HEX 00		Input	
8	-	-								Input	
17	-	-							HW-MIDI Mode Switch 0/1	Input	
20	-	-							KeyBoard Mode Switch 0/1	Input	
21	-	-							KeyBoard Mode Switch 0/2	Input	
0									Ser. MIDI Input	Input	
1									Ser.-MIDI Output	Output	
14									RUN (OK)	Output	Connect a 2V LED with an IF of 10mA max. (150 Ohm Resistor)
15									TRASNMIT	Output	Connect a 2V LED with an IF of 10mA max. (150 Ohm Resistor)
Vin										Power	5V from the USB Connector (Power for Optocoupler)
AGND										AGND	Ground Potential for Analog Inputs (Not used)
3.3V										3.3V	This is the Power for The Buttons and Wireless Receiver. (max. 250 mA can be used!!)
GND										GND	Ground Potential for digital In-Outputs (use this)
Other Pins	The Pins, 9, 11, 13, 18, 22, 23 are used by the Audio-Shield for the Data-Stream an controlling the SGTL-5000. The Pin 10 is used by the SC-Card and Pin 15(A1) Is used for the Volume Potentiometer for the Shield. Pin 6,7 and 14 are double used for SD-Card, Memory Chip and the Push-Buttons. As long you not need the SD-Card Slot and or Memory Chip, there is no problem. If you want to use this, you had to change the In- and Output used by the Script										
Volume Keys	Volume Up/Down change is using the Media Key which changes the Master Output of the device. On a Mac nothing will happen because the Audio-Shields Master Output is always set to maximum. On a iPad the Master Volume will changed. You can change a dedicated Level using Keyb. Mode 1, and map the key 9 and 0 to a certain function like Master Volume of QLAB or GO-Button.										
MSC	The Midi Show Control is recognized by QLAB as default. The MSC execution is set to following Format: Device ID „all call“ command format „all types“ (But keep in mind that MidiShowControl has always a bit of latency.										