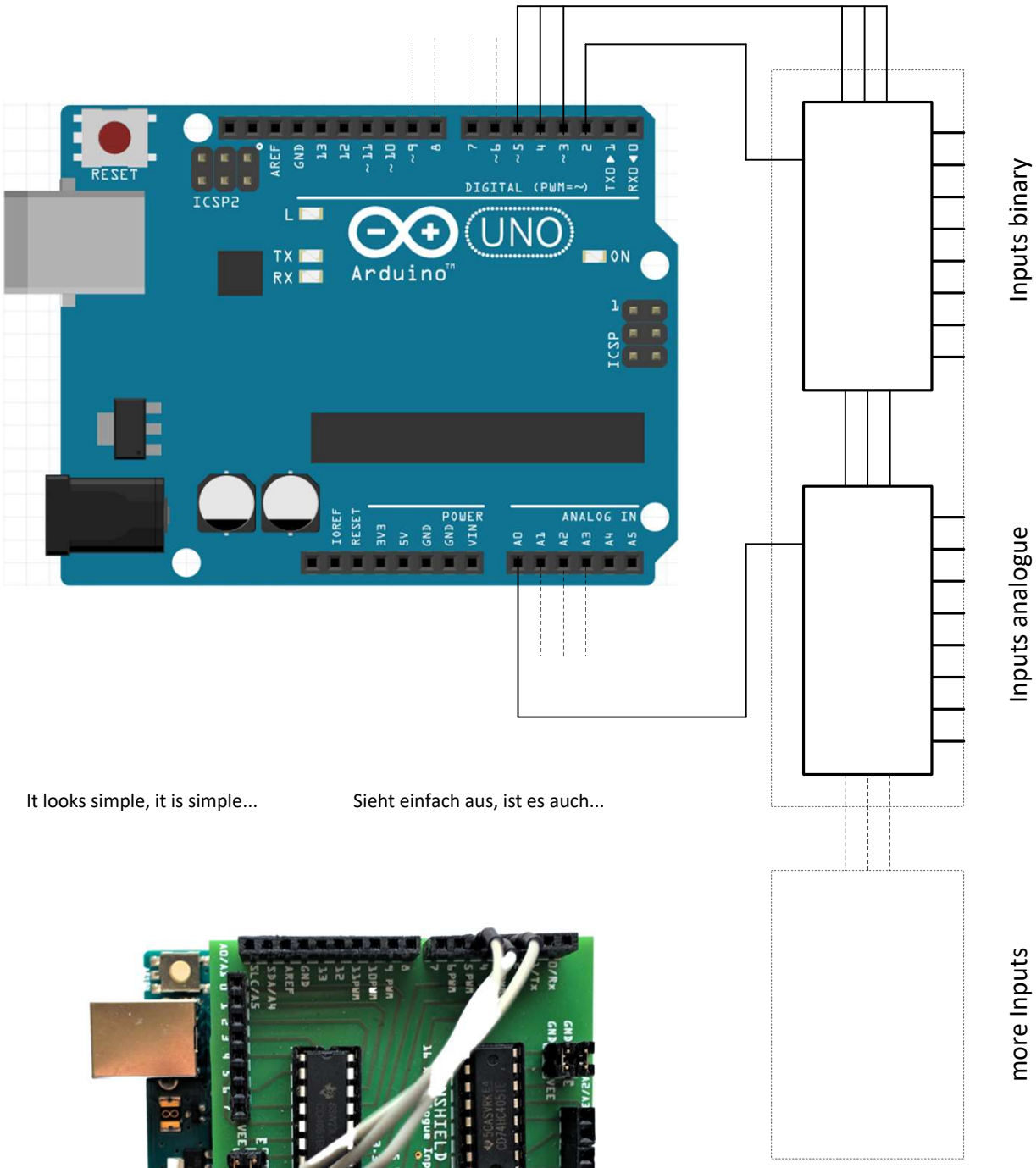


It looks simple, it is simple...

Sieht einfach aus, ist es auch...

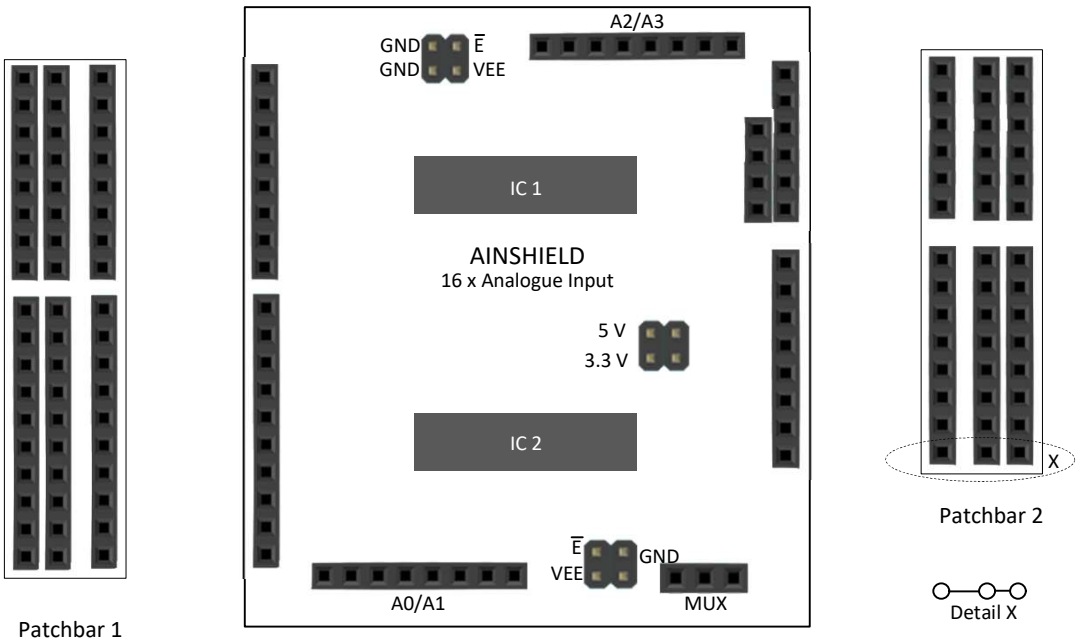


Fig.7 Example
Stacking with Patchbar

Fig.7 Beispiel
Stapeln mit Patchbar

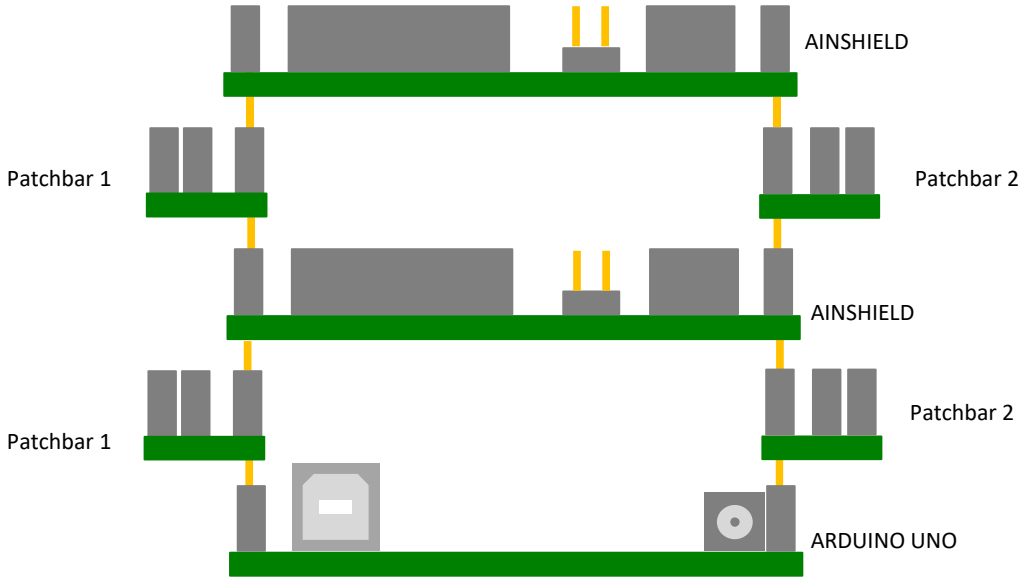
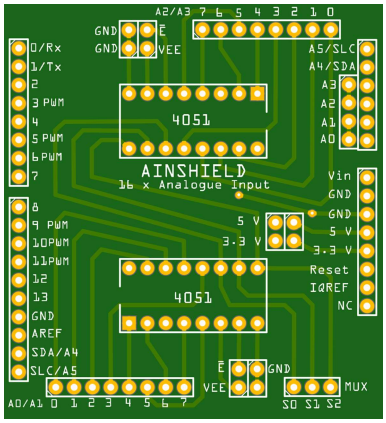
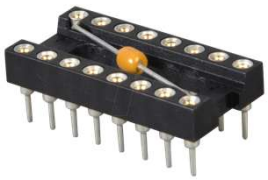
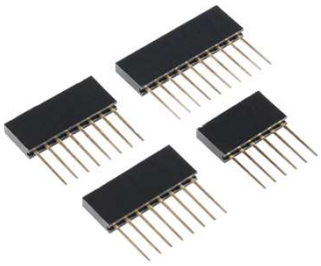


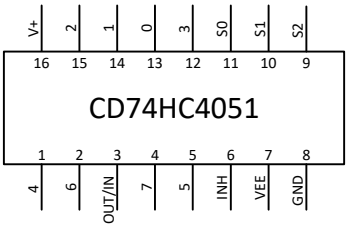
Fig.7

1 x PCB
2 x IC DIP SOCKET 16 LEGS (100pF inside)
6 x HEADER MALE 2 LEGS
2 x STACKING HEADER SET ARDUINO SHIELD
2 x CD74HC4051

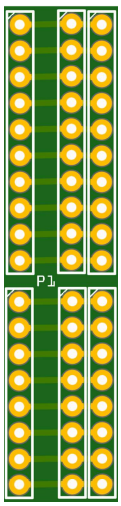


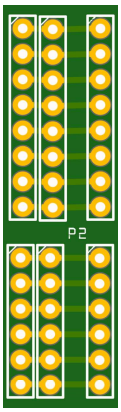


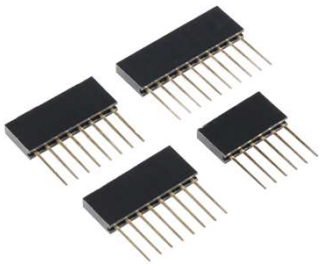




2 x PCB
3 x STACKING HEADER SET ARDUINO SHIELD







IC1 and IC2 (HC4051) are 8 channel bidirectional multiplexers in high speed technology (Typ. t_{Pd} = 15 ns). The analogue operating range is V_{ss} – VEE. For operation as a digital multiplexer also, VEE is connected to ground (GND). High Signal on $\overline{E}$ disable the switches.

IC1 und IC2 (HC4051) sind schnelle, achtkanalige bidirektionale Multiplexer (Typ. t_{Pd} = 15 ns). Der Messbereich ist V_{ss} – VEE. Zur Nutzung von binären Signalen wird VEE auf Masse verdrahtet (GND). Mit High Signal auf $\overline{E}$ kann die Messung verhindert werden.

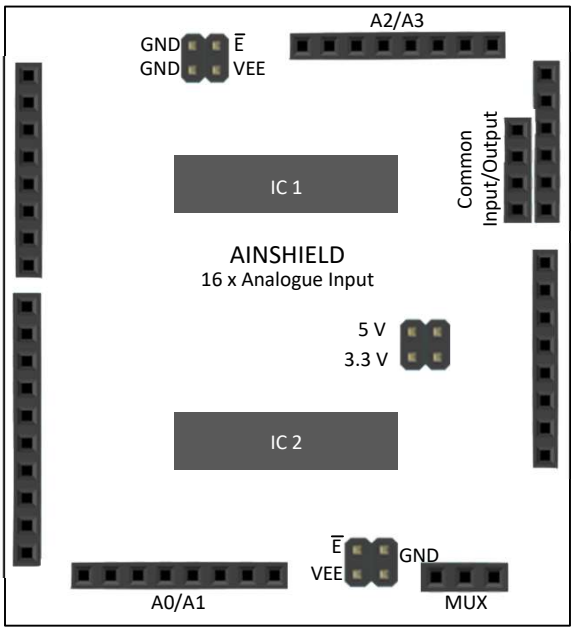


Fig.1

Fig.2 shows simplified how it works.

Die Arbeitsweise ist vereinfacht in Fig.2 dargestellt.

MUX (Selector)			
S2	S1	S0	Input Output
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	0	0	4
1	0	1	5
1	1	0	6
1	1	1	7

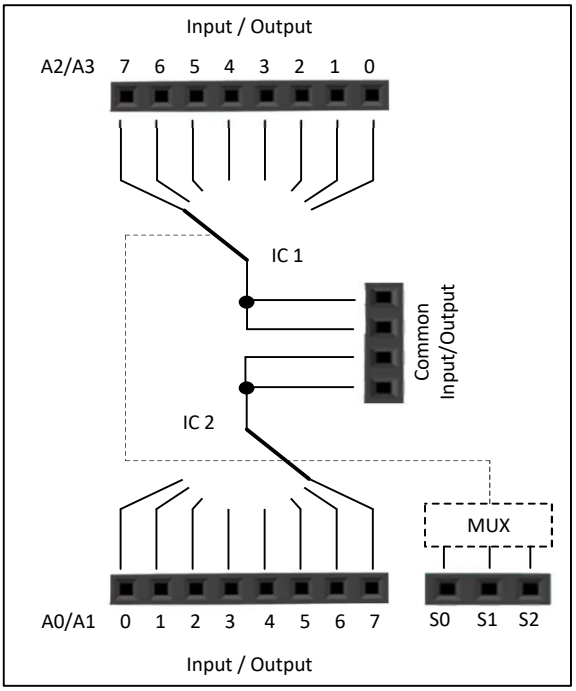


Fig.2

Fig.3 shows the input network.

Fig.3 zeigt die Eingangsbeschaltung.

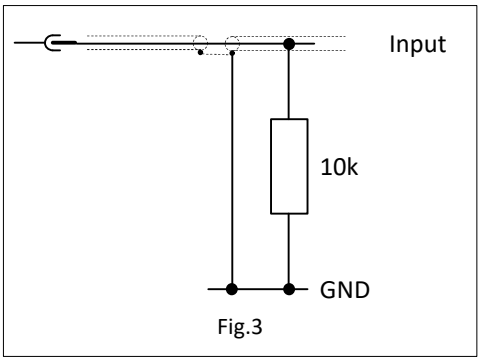


Fig.3

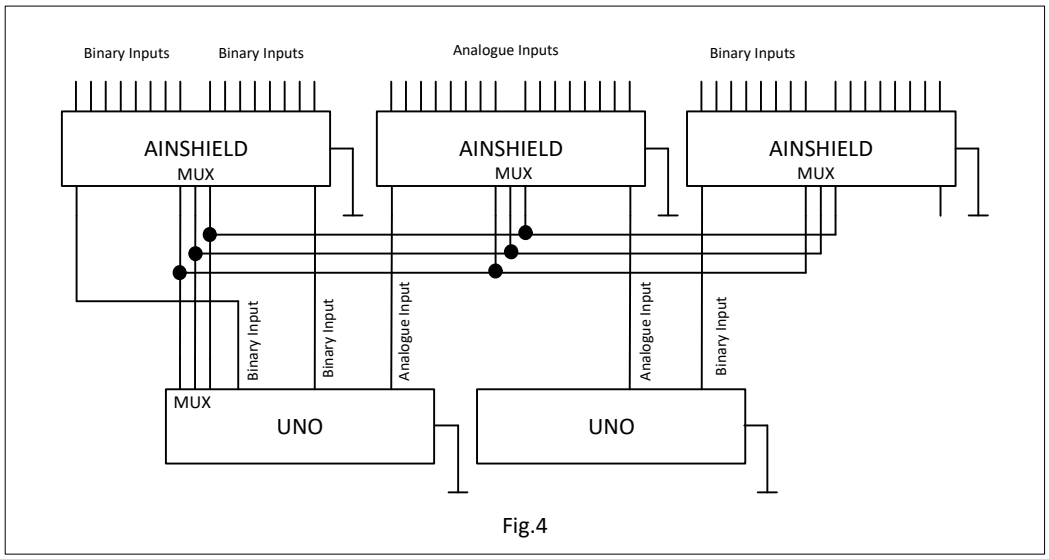


Fig.4

Fig.4 shows an example for interconection between Arduinos and AINSHIELDS.

Fig.4 zeigt ein Beispiel wie Arduinos und AINSHIELDS miteinander verbunden werden können.