

## Decoder adapter 21MTC, item 8080(Ax)

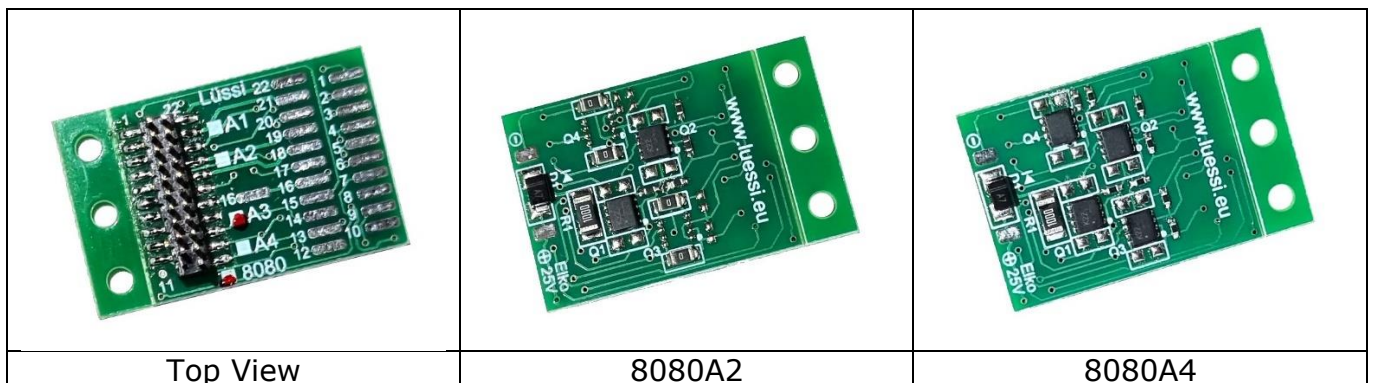
The 21MTC adapters of the 8080 series have a size of 28 x 18 mm (without lug 23 x 18 mm). Depending on the version, various decoder outputs on these PCBs are amplified from logic level to fully-fledged switching outputs. Thus, a maximum of 12 amplified outputs are available at the solder pads for consumers (version 8080A4 together with ESU LokPilot/LokSound 5).

The 5 mm wide tab has three 2.2 mm holes for mounting. The tab can be broken off if the adapter is to be fixed with double-sided mounting tape.

The connection solder pads are located on the upper side and are labelled with the pin numbers of the 21MTC interface.

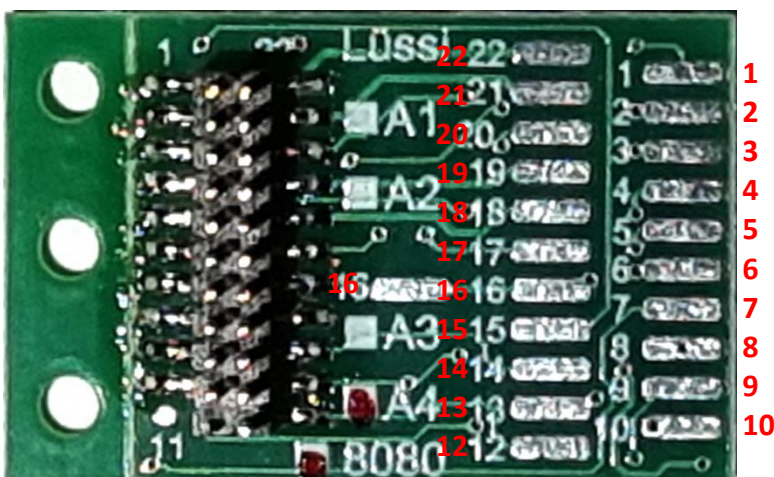
### Versions

8080	All connections led out directly without amplification.
8080L	As 8080, but pre-wired with stranded wires.
8080A1	Pins 13 and 4 amplified (Aux 3 and Aux 4).
8080A2	As A1, additionally pins 17 and 3 amplified (Aux 5 and Aux 6).
8080A3	As A2, additionally pins 5 and 6 amplified (Aux via Susi)
8080A4	As A3, additionally pins 1 and 2 amplified (aux depending on decoder)

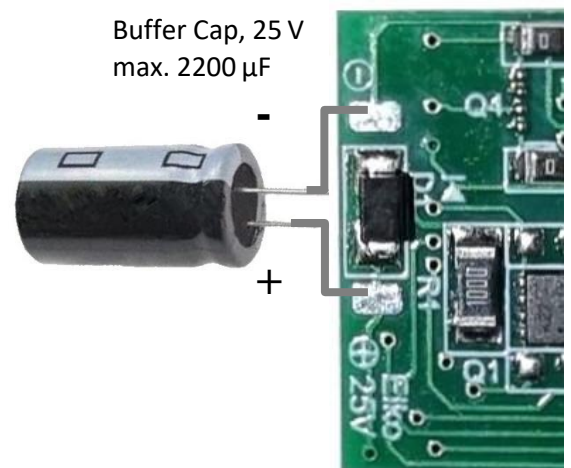


### Connection

#### Top



#### Bottom



For convenience Pin 16 (Decoder plus) is available on two pads

## Overview of the 21MTC connections of different decoders

21MTC	ESU	Zimo	Zimo	Doehler & Haass	8080	8080A1	8080A2	8080A3	8080A4
Pin	LokPilot/Sound 5	MX-Series (634x)	MS-Series	DH21B-4					
1	Aux 10	n/c	Schalteingang	Aux 8	direct	direct	direct	direct	amplified
2	Aux 7	Aux 6	Aux 9	Aux 7	direct	direct	direct	direct	amplified
3	Aux 6	Aux 5	Aux 6	Aux 6	direct	direct	amplified	amplified	amplified
4	Aux 4	Aux 4	Aux 4	Aux 4	direct	amplified	amplified	amplified	amplified
5	Aux 12 (Susi Clk)	Aux 7 (Susi Clk)	Aux 7 (Susi Clk)	Susi Clock	direct	direct	direct	amplified	amplified
6	Aux 11 (Susi Dta)	Aux 8 (Susi Dta)	Aux 8 (Susi Dta)	Susi Data	direct	direct	direct	amplified	amplified
7	Rear light F0r (RL)				direct	direct	direct	direct	direct
8	Front light F0v (FL)				direct	direct	direct	direct	direct
9	Loudspeaker 1				direct	direct	direct	direct	direct
10	Loudspeaker 2				direct	direct	direct	direct	direct
11	(Index)				n/a	n/a	n/a	n/a	n/a
12	Vcc +5 V				direct	direct	direct	direct	direct
13	Aux 3				direct	amplified	amplified	amplified	amplified
14	Aux 2				direct	direct	direct	direct	direct
15	Aux 1				direct	direct	direct	direct	direct
16	Decoder Plus				direct & buffer	direct & buffer	direct & buffer	direct & buffer	direct & buffer
17	Aux 5	Capacitor minus	Aux 5	Aux 5	direct	direct	amplified	amplified	amplified
18	Motor - (left)				direct	direct	direct	direct	direct
19	Motor + (right)				direct	direct	direct	direct	direct
20	Decoder GND, 0 V				direct	direct	direct	direct	direct
21	Wheels (Track left)				direct	direct	direct	direct	direct
22	Pickup (Track right)				direct	direct	direct	direct	direct

### Notes

For ESU decoders, use the versions without 'MKL' in the designation for the amplified 8080 versions (8080Ax), i.e. LokPilot 59619 or LokSound 58419.

For ZIMO decoders set the outputs to 'logic level' with CV #8 = 3 or use the 'C' versions (e.g. MX634C).