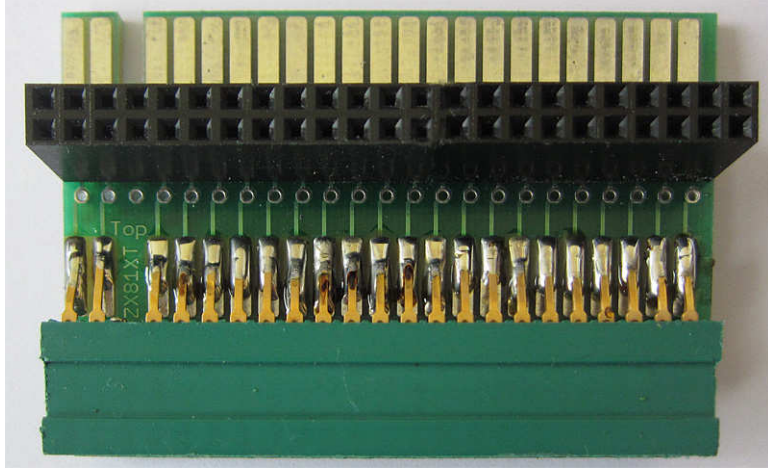
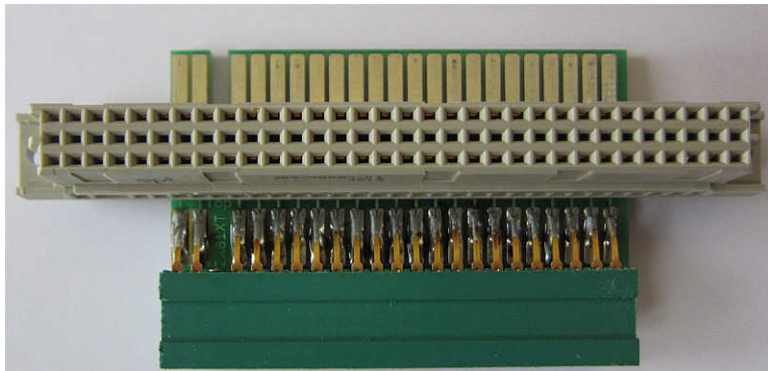


Description for ZX81XT – extender board for ZX81 developments

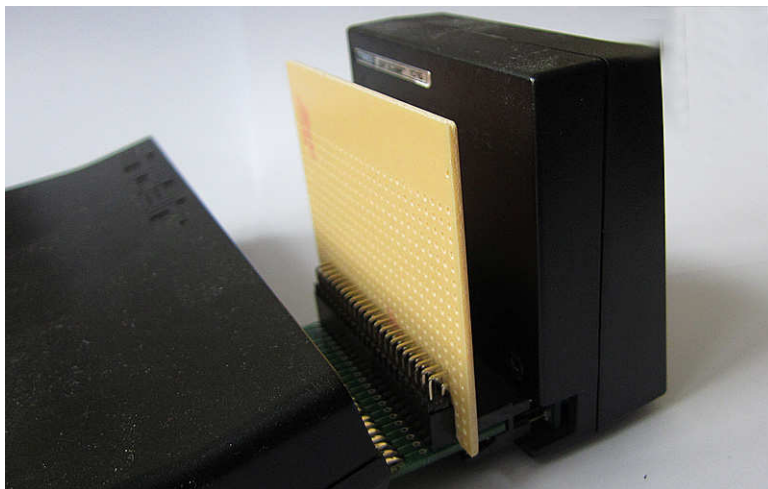
This board was designed to adapt development boards to Sinclair's ZX81 to the edge connector with the possibility to use other ZX81 hardware modules connected to the bus via through routed connector. See example pictures below how to use.



(ZX81XT with "black" standard connector for development cards)



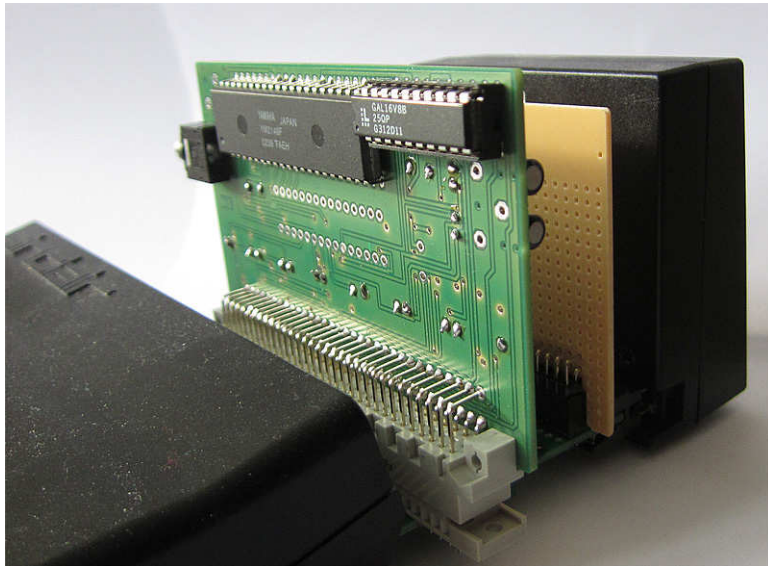
(ZX81XT with VG connector and A/C row support with 5,08mm / 0.2 inch row distance)



(ZX81XT connected to a Sinclair ZX81 computer and additional connected memory pack)

The following picture shows two extender boards connected one after the other and a memory pack at the end (could be any other device). When using your own development boards please be sure if the ZX81 can support the needed power, especially when using the internal 5V.

5V is delivered by an internal power regulator which may shutdown the computer when overheated caused from too much power consumption. This effect will not destroy the voltage regulator, after cooling down it will run again.



(Several ZX81XT boards can be connected together, sandwich technology)

Pin Layout:

ZX81 top side	function	ZX81 bottom side	function
1A / T1	D7 data bus	1B / B1	+5V
2A / T2	/RAMCS	2B / B2	+9V
3A / T3	- keyway -	3B / B3	- keyway -
4A / T4	D0 data bus	4B / B4	GND
5A / T5	D1 data bus	5B / B5	GND
6A / T6	D2 data bus	6B / B7	CLK CPU
7A / T7	D6 data bus	7B / B7	A0 address bus
8A / T8	D5 data bus	8B / B8	A1 address bus
9A / T9	D3 data bus	9B / B9	A2 address bus
10A / T10	D4 data bus	10B / B10	A3 address bus
11A / T11	/INT	11B / B11	A15 address bus
12A / T12	/NMI	12B / B12	A14 address bus
13A / T13	/HALT	13B / B13	A13 address bus
14A / T14	/MREQ	14B / B14	A12 address bus
15A / T15	/IOREQ	15B / B15	A11 address bus
16A / T16	/RD	16B / B16	A10 address bus
17A / T17	/WR	17B / B17	A9 address bus
18A / T18	/BUSAK	18B / B18	A8 address bus
19A / T19	/WAIT	19B / B19	A7 address bus
20A / T20	/BUSRQ	20B / B20	A8 address bus
21A / T21	/RESET	21B / B21	A5 address bus
22A / T22	/M1	22B / B22	A4 address bus
23A / T23	/REFSH	23B / B23	/ROMCS