



Adapter IC1815

The micro controller TMPZ84C013 from Toshiba is manufactured from Zilog with the designation Z84013. Zilog offers also a more developed controller with some improvements with the designation Z84C13. All versions of this controller are manufactured in a 84-pin PLCC casing.

The adapter IC1815 offers you a simple possibility to use the TMPZ84C013 in normal mode as well as in emulation mode.

Remove the TMPZ84C013 from your target system and put it into the socket on the adapter. Now put the adapter into your PGA socket of your target system. You can choose type and mode with different jumpers on the adapter board.

If there is only a 84PLCC socket available in your target system, we can offer you a socket converter from 84PGA -> 84PLCC (SOC008).

For using an emulator in projects with the TMPZ84C013 you must note some important points. For emulating the TMPZ84C013 you must use the Z80 processor.

If you are using the TMPZ84C013 in emulation mode, the Z80 kernel of the controller is shut down and an external Z80 processor or emulator is controlling the internal I/O registers exactly as if the CPU was on-chip.

It is possible that you need an additional address buffer between emulator and Z80-socket because of the necessary driver output of the address lines. For this reason we can offer you an address buffer board IC1811.

On the adapter board you find 5 jumpers to select between normal and emulation mode and to select the different controller types.

Jumper settings:

JP1	Position A:	/BUSREQ from target to Z80-socket
	Position B:	/BUSREQ from target to (TMP)Z84(C)013
JP2	Position A:	/BUSACK from Z80-socket
	Position B:	/BUSACK from (TMP)Z84(C)013
JP3	closed:	clock from CLKOUT to CLKIN and Z80-socket
	open:	clock from Z80-socket to CLKIN
JP4	closed:	(TMP)Z84(C)013 emulation mode
	open:	(TMP)Z84(C)013 normal mode
JP5	Position A:	normal mode
	Position B:	Z84015 and TMPZ84C015 emulation mode
	Position C:	Z84C15 emulation mode

