



Adapter IC1816

The micro controller TMPZ84C015 from Toshiba is manufactured from Zilog with the designation Z84015. Zilog offers also a more developed controller with some improvements with the designation Z84C15. All versions of this controller are manufactured in a 100-pin QFP casing.

The adapter IC1816 offers you a simple possibility to use the TMPZ84C015 in normal mode as well as in emulation mode.

There are three possibilities to adapt into your target system:

1. The pin layout of the adapter is included on your target system
You only must put the adapter onto your target system and insert the Z84C015 into the zero power socket if there isn't already soldered one.

2. Solder adapter
There is also a solder adapter available which is coordinated with adapterboard IC1816 (ET0302). Solder this adapter into your target, put on the adapterboard and insert the TMPZ84C015 into the zero power socket.

3. Clipover adapter
There is also a clipover adapter available which is coordinated with adapterboard IC1816 (ET0002). Put the clipover adapter onto the already soldered TMPZ84C015 and connect it to the adapter board IC1816. In this case the zero power socket is empty.

Controller type and mode are selectable with different jumpers on the adapter board.

For using an emulator in projects with the TMPZ84C015 you must note some important points. For emulating the TMPZ84C015 you must use the Z80 processor.
If you are using the TMPZ84C015 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)015
JP2	Position A:	/BUSACK from Z80-socket
	Position B:	/BUSACK from (TMP)Z84(C)015

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|-----|---|--|
| JP3 | closed:
open: | clock from CLKOUT to CLKIN and Z80-socket
clock from Z80-socket to CLKIN |
| JP4 | closed:
open: | (TMP)Z84(C)015 emulation mode
(TMP)Z84(C)015 normal mode |
| JP5 | Position A:
Position B:
Position C: | normal mode
Z84015 and TMPZ84C015 emulation mode
Z84C15 emulation mode |

