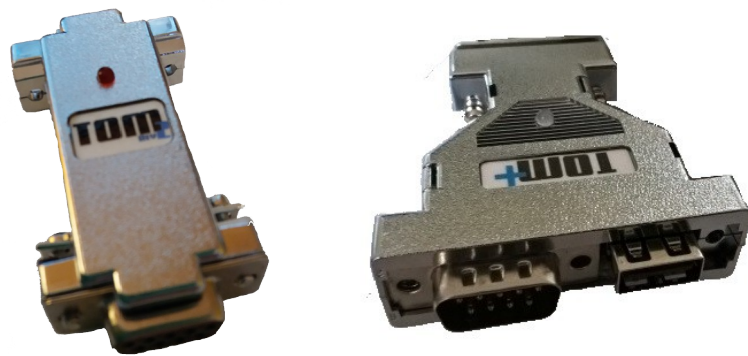




TOM Rev2 / TOM+

INTERFACE MANUAL





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1. PURPOSE OF THE INTERFACE

The TOM interface is dedicated for computers like AMIGA, Atari ST, Atari FALCON, Atari TT and C64/C128, it allows connecting such peripherals via the USB as mouse, joystick, pad or a keyboard (including the wireless keyboards) designed for PC-class computers, which do not require installation of additional drivers (HID-compatible device). You can connect multiple devices to the adapter with use of a USB wireless receiver (e.g. mouse and keyboard). Commodore 64/128 mouse is used in 1351 mode. Ways to connect and functionality are described further in the document.

2. INSTALLATION

Adapter can be connected, depending on needs, to any given port (mouse or joystick) it should be inserted (plugged into a port) before the power is on. **Attention: Connecting the device to an operating computer might cause damage to the computer port.** However connecting of USB peripheral is possible while the computer is powered on (Hot-plug mode) and it can be connected and disconnected multiple times. While the device is operating a LED light indicated its status.

3. CONFIGURATION (AMIGA / ATARI / C64 C128)

The first thing after receiving adapter is reconfiguring it to your current used computer:

(Ps. usually adapter is configured to AMIGA at first run).

AMIGA

- 1) Turn off AMIGA and connect adapter with usb mouse to Port 1.



- 2) Turn power on and after 1 sec. (try not less not more) press and hold RIGHT mouse button.
- 3) Next quickly press 5-6 times LEFT mouse button.
- 4) After that LED should off for a second and the fastly blinks 1 time.
- 5) Release holded button.
- 6) Power off and then on AMIGA again.

Notice: If adapter is wrongly configured the mouse direction works wrongly or not work at all.

Settings stored! Adapter not need to be configured anymore.

ATARI ST/TT/FALCON

- 1) Turn off ATARI and connect adapter with usb mouse to Port 1.
- 2) Turn power on and after 1 sec. (try not less not more) press and hold LEFT mouse button.
- 3) Next quickly press 5-6 times RIGHT mouse button.
- 4) After that LED should off for a second and the fastly blinks 2 times.
- 5) Release holded button.
- 6) Power off and then on ATARI again.

Notice: If adapter is wrongly configured the mouse direction works wrongly or not work at all.

Settings stored! Adapter not need to be configured anymore.

C64/C128

- 1) Turn off C64/C128 and connect adapter with usb mouse to Port 1.
- 2) Turn power on and after 1 sec. (try not less not more) press and hold MIDDLE mouse button.
- 3) Next quickly press 5-6 times LEFT mouse button.
- 4) After that LED should off for a second and the fastly blinks 3 times.
- 5) Release holded button.
- 6) Power off and then on C64/C128 again.

Notice: If adapter is wrongly configured some buttons on C64/C128 keyboard are blocked or on screen are printed wrong characters. Mouse not works at all in this case.

Settings stored! Adapter not need to be configured anymore.

4. USE OF THE INTERFACE

Adapter automatically detects the type of the device connected which is signalized by



the LED as follows:

- LED dims every 2s. – mouse,
- LED dims twice each 2s. – joystick or pad,
- LED dims for three times each 2s. – keyboard.

If the LED flashed alternately it means, that the device is not connected or it is not supported.

MOUSE

PC mouse button	Function
Left	Left mouse button
Roll (button)	Middle mouse button
Right	Right mouse button

KEYBOARD

The connected keyboard operates in two modes:

- mouse emulation with use of keys,
- joystick emulation with use of keys.

Attention: Emulation mode for C64/C128 is experimental (some difficulties might occur).

Button	Function
W	Move up (both modes)
S	Move down (both modes)
A	Move left (both modes)
D	Ruch w right (both modes)
O or <	Fire1 or left mouse button in mouse emulation mode
P or >	Fire2 or right mouse button in mouse emulation mode
9 or K	Autofire for Fire 1 button
0 or L	Autofire for Fire 2 button
1	Switch to mouse emulation mode (short LED flash)
2	Switch to joystick emulation mode (short LED flash)



Once the emulation mode is being chosen it is remembered and set as a default mode at the next startup.

MOUSE + KEYBOARD (wireless set)

It allows using both devices simultaneously on terms described separately for the mouse and for the keyboard.

JOYSTICK / PAD

Joysticks and pads operate in modes listed below:

- standard joystick for all kinds of computers (Amiga, Atari, C64/C128)
- mouse emulation for all kinds of computers (Amiga, Atari, C64/C128)
- in CD32 mode (only for Amiga computers), this mode is supported only for games that support this mode.

Default configuration :

Button (Alternative)	Joystick mode	Mouse emulation	Amiga CD32 games mode
1 (Triangle)	Fire 1	Left mouse button	Red
2 (Circle)	Fire 2	Right mouse button	Blue
3 (X)			Yellow
4 (Square)			Green
5 (L1)			<<
6 (R1)			>>
7 (L2)	Autofire for Fire 1		Autofire Red
8 (R2)	Autofire for Fire 2		Autofire Blue
9			
10 (Select)			Start/Pause

The alternative buttons description is purely conventional and it might be different from the one present in here.

Change in operating mode (joystick mode / mouse emulation) happens through simultaneous pressing and holding of 9 and 10 buttons on a pad or joystick and further pressing button:

- 1 which causes the mouse emulation mode to start,



- 2 which causes the joystick mode to start.

After pressing the LED will dim and then quickly flash which means that the interface has been configured correctly and you can release all buttons.

Attention: those settings are not saved therefore at next computer startup the default mode would be Pad/Joystick.

The CD32 mode is automatically detected in joystick mode after a certain game is started. There is an option to re-program the button settings to adjust them to your needs.

To perform it we need to press simultaneously pad or joystick buttons as follows:

- Button 1 + Button 2 + left direction and hold it for 10s (LED starts flashing quickly) now we have 15s. to program the buttons of a pad by pressing 10 buttons one after another according to our needs.

5. RESET TO DEFAULT SETTINGS

In case of any configuration difficulties we can return to default settings (only with use of a mouse) – we need to press all three buttons for 10 seconds after that time the LED will start flashing quickly and alternately for 3 seconds period, after that the settings are set back to default values.

6. EXTENSION CORD

Some computers might require an additional extension cord:

A500	A500+	A600	A1000	A1500	A2000	A2500	A3000	A4000	CD32
No	No	Yes	No	No	Not sure	No	No	No	No

ATARI ST	ATARI FALCON	ATARI TT	C64	C128
Yes	Yes	Yes	Yes	No



7. UPGRADE FIRMWARE

Please do as follow:

- 1) Download and run our UNIQUE firmware updater from:
http://electronica4u.com/files/e4you_Updater.exe
- 2) Then connect TOM/TOM+ adapter to USB PC port
- 3) Click „Connect” button
- 4) Select software revision you want to upload
- 5) Click „Upload firmware” button

Please watch our youtube movie for more details:

<http://youtube.com/watch?v=V9Ds2-qgEjg>

Requirements:

- USB Type A to A cable
- Windows OS