

# Speedlink Competition Pro USB#

## Table of Contents

- [Speedlink Competition Pro USB](#)
- [Description](#)
- [Byte 3: Buttons](#)
- [Device dependent source](#)

Tested with a Speedlink Competition Pro USB. Might work with other digital gamepads. String descriptor returns "Gamepad".

## Description#

USB Register	Byte of HID Packet	Function	Atari Memory Shadow	original Label	new USB label	
\$10	1	Horizontal Movement (left/right)	\$270 (624)	PADDL0	JHORIZ	
\$11	2	Vertical Movement (up/down)	\$271 (625)	PADDL1	JVERT	
\$12	3	Buttons 1-4	\$272 (626)	PADDL2	JBUTTON	

## Byte 3: Buttons#

Bit	Button	
1	1	
2	2	
3	3	
4	4	

## Device dependent source#

This Source must be included into the [Base HID Driver](#).

```
01000          .LI OFF
01010 *****
01020 ** 6502 USB DEVELOPMENT **
01030 ** (C) 2005 BY ABBUC **
01040 ** REGIONALGRUPPE FFM **
01050 ** DEVICE DRIVER FOR **
01060 ** COMPETITON PRO USB **
01070 ** VERSION 1.0 20050111 **
01080 ** LICENSED UNDER THE **
01090 ** GNU PUBLIC LICENSE **
01100 ** (GPL) VERS. 2 OR LATER **
01110 ** **
01120 *****
```

```

01130 ; THIS FILE MUST BE INCLUDED
01140 ; FROM USBHID.SRC!
01150 ;
01160 ; ATARI MEMORY LOCATIONS
01170 ;
01180 STICK0    = $0278
01190 STICK1    = $0279
01200 STRIG0    = $0284
01210 STRIG1    = $0285
01220 ;
01230 ; USB JOYSTICK SHADOW REGISTER
01240 ;
01250 JHORIZ     = $0270
01260 JVERT      = $0271
01270 JBUTTON    = $0272
01280 ;
01290 -----
01300 POLLDEVICE
01310 ;
01320             LDA #03
01330             JSR PROCESS
01340 ;             AND #01
01350 ;             BEQ .2 ; NO DATA
01360 ;
01370             LDX #$10
01380             JSR REGFETCH
01390             STA JHORIZ
01400 ;
01410             LDX #$11
01420             JSR REGFETCH
01430             STA JVERT
01440 ;
01450             LDX #$12
01460             JSR REGFETCH
01470             STA JBUTTON
01480 ;
01490 .2         RTS
01500 -----
01510 USB2ATA
01520             LDA #$0F
01530             STA STICK0
01540             LDA #1
01550             STA STRIG0
01560 ;
01570             LDA JBUTTON
01580             BEQ GETSTICK
01590             LDA #0
01600             STA STRIG0
01610 ;
01620 GETSTICK
01630             LDA STICK0
01640             LDX JHORIZ
01650             CPX #$80
01660             BEQ .10 ; NOTHING
01670             BCC .2 ; LEFT
01680             EOR #$08 ; RIGHT
01690             BPL .3
01700 .2         EOR #$04 ; LEFT
01710 .3         STA STICK0

```

```

01720 .10
01730         LDX JVERT
01740         CPX #$80
01750         BEQ .20 ; NOTHING
01760         BCC .12 ; UP
01770         EOR #$02 ; DOWN
01780         BPL .13
01790 .12     EOR #$01 ; UP
01800 .13     STA STICK0
01810 .20     RTS
01820 -----
01860 VBI
01870         LDA STICK0
01880         EOR #$0F
01890         BNE .1
01900         LDA STRIG0
01910         BEQ .1
01920 ;
01930         JSR POLLDEVICE
01940         JSR USB2ATA
01950 .1       JMP XITVBV
01960 -----
01970         .OR $7400
01980 -----
01990 PRINTDEVICE
02000         JSR PRINT
02010         .AS "COMPETITION PRO USB Driver"
02020         .HX 40
02030         RTS
02040 -----
02050 PRINTVERSION
02060         JSR PRINT
02070         .AS "Version 1.0 "
02080         .HX 40
02090         RTS
02100 -----
02110 PRINTCOPY
02120         JSR PRINT
02130         .AS "(c) 20050111 C. Strotmann/ABBUC"
02140         .HX 40
02150         RTS
02160 -----

```