

SANWA SUPPLY USB-CVPS2

動作確認結果

- キーボード 動作OK
 ELECOM TK-P12FY2SVにて
- マウス クリックを取りこぼす場合あり
 メーカー不明 SM-9013にて

認識状態

- NYA-USB98KBWM
 device0 0b39:0001:00
 >device type:hid
 ->interface0:keyboard
 ->interface1:mouse
- Windows
 - ▼  USB Composite Device
 - ▼  USB 入力デバイス
 -  HID キーボード デバイス
 - ▼  USB 入力デバイス
 -  HID 準拠コンシューマー制御デバイス
 -  HID 準拠システムコントローラー
 -  HID 準拠マウス

USB Descriptor

Global:

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Device Descriptor:

0x12 bLength
0x01 bDescriptorType
0x0110bcdUSB
0x00 bDeviceClass
0x00 bDeviceSubClass
0x00 bDeviceProtocol
0x08 bMaxPacketSize0 (8 bytes)
0x0B39 idVendor
0x0001 idProduct

0x0310 bcdDevice
0x01 iManufacturer "Composite USB PS2 Converter"
0x02 iProduct "USB to PS2 Adaptor V3.10"
0x00 iSerialNumber
0x01 bNumConfigurations

Configuration Descriptor:

0x09 bLength
0x02 bDescriptorType
0x003B wTotalLength (59 bytes)
0x02 bNumInterfaces
0x01 bConfigurationValue
0x02 iConfiguration "USB to PS2 Adaptor V3.10"
0xA0 bmAttributes (Bus-powered Device, Remote-Wakeup)
0x32 bMaxPower (100 mA)

Interface0:

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Interface Descriptor:

0x09 bLength
0x04 bDescriptorType
0x00 bInterfaceNumber
0x00 bAlternateSetting
0x01 bNumEndPoints
0x03 bInterfaceClass (Human Interface Device Class)
0x01 bInterfaceSubClass
0x01 bInterfaceProtocol
0x00 iInterface

HID Descriptor:

0x09 bLength
0x21 bDescriptorType
0x0110bcdHID
0x00 bCountryCode
0x01 bNumDescriptors
0x22 bDescriptorType (Report descriptor)
0x0040 bDescriptorLength

Endpoint Descriptor:

0x07 bLength
0x05 bDescriptorType
0x81 bEndpointAddress (IN endpoint 1)
0x03 bmAttributes (Transfer: Interrupt / Synch: None / Usage: Data)

0x0008 wMaxPacketSize (1 x 8 bytes)
0x00A bInterval (10 frames)

HID Report Descriptor:

```
-----  
0x05, 0x01,        // Usage Page (Generic Desktop Ctrls)  
0x09, 0x06,        // Usage (Keyboard)  
0xA1, 0x01,        // Collection (Application)  
0x05, 0x07,        // Usage Page (Kbrd/Keypad)  
0x19, 0xE0,        // Usage Minimum (0xE0)  
0x29, 0xE7,        // Usage Maximum (0xE7)  
0x15, 0x00,        // Logical Minimum (0)  
0x25, 0x01,        // Logical Maximum (1)  
0x95, 0x08,        // Report Count (8)  
0x75, 0x01,        // Report Size (1)  
0x81, 0x02,        // Input (Data,Var,Abs,No Wrap,Linear,Preferred State,No Null Position)  
0x95, 0x01,        // Report Count (1)  
0x75, 0x08,        // Report Size (8)  
0x81, 0x01,        // Input (Const,Array,Abs,No Wrap,Linear,Preferred State,No Null Position)  
0x05, 0x08,        // Usage Page (LEDs)  
0x19, 0x01,        // Usage Minimum (Num Lock)  
0x29, 0x03,        // Usage Maximum (Scroll Lock)  
0x95, 0x03,        // Report Count (3)  
0x75, 0x01,        // Report Size (1)  
0x91, 0x02,        // Output (Data,Var,Abs,No Wrap,Linear,Preferred State,No Null  
Position,Non-volatile)  
0x95, 0x05,        // Report Count (5)  
0x75, 0x01,        // Report Size (1)  
0x91, 0x01,        // Output (Const,Array,Abs,No Wrap,Linear,Preferred State,No Null  
Position,Non-volatile)  
0x95, 0x06,        // Report Count (6)  
0x75, 0x08,        // Report Size (8)  
0x15, 0x00,        // Logical Minimum (0)  
0x26, 0xE7, 0x00, // Logical Maximum (231)  
0x05, 0x07,        // Usage Page (Kbrd/Keypad)  
0x19, 0x00,        // Usage Minimum (0x00)  
0x29, 0xE7,        // Usage Maximum (0xE7)  
0x81, 0x00,        // Input (Data,Array,Abs,No Wrap,Linear,Preferred State,No Null Position)  
0xC0,              // End Collection
```

Interface1:

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Interface Descriptor:

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-----  
0x09    bLength  
0x04    bDescriptorType  
0x01    bInterfaceNumber
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0x00 bAlternateSetting
0x01 bNumEndPoints
0x03 bInterfaceClass (Human Interface Device Class)
0x01 bInterfaceSubClass
0x02 bInterfaceProtocol
0x00 iInterface

HID Descriptor:

0x09 bLength
0x21 bDescriptorType
0x0110bcdHID
0x00 bCountryCode
0x01 bNumDescriptors
0x22 bDescriptorType (Report descriptor)
0x0066 bDescriptorLength

Endpoint Descriptor:

0x07 bLength
0x05 bDescriptorType
0x82 bEndpointAddress (IN endpoint 2)
0x03 bmAttributes (Transfer: Interrupt / Synch: None / Usage: Data)
0x0008 wMaxPacketSize (1 x 8 bytes)
0x0A bInterval (10 frames)

HID Report Descriptor:

0x05, 0x01, // Usage Page (Generic Desktop Ctrls)
0x09, 0x02, // Usage (Mouse)
0xA1, 0x01, // Collection (Application)
0x85, 0x01, // Report ID (1)
0x09, 0x01, // Usage (Pointer)
0xA1, 0x00, // Collection (Physical)
0x05, 0x09, // Usage Page (Button)
0x19, 0x01, // Usage Minimum (0x01)
0x29, 0x05, // Usage Maximum (0x05)
0x15, 0x00, // Logical Minimum (0)
0x25, 0x01, // Logical Maximum (1)
0x75, 0x01, // Report Size (1)
0x95, 0x05, // Report Count (5)
0x81, 0x02, // Input (Data,Var,Abs,No Wrap,Linear,Preferred State,No Null Position)
0x75, 0x03, // Report Size (3)
0x95, 0x01, // Report Count (1)
0x81, 0x01, // Input (Const,Array,Abs,No Wrap,Linear,Preferred State,No Null Position)
0x05, 0x01, // Usage Page (Generic Desktop Ctrls)
0x09, 0x30, // Usage (X)

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0x09, 0x31,    // Usage (Y)
0x09, 0x38,    // Usage (Wheel)
0x15, 0x81,    // Logical Minimum (-127)
0x25, 0x7F,    // Logical Maximum (127)
0x75, 0x08,    // Report Size (8)
0x95, 0x03,    // Report Count (3)
0x81, 0x06,    // Input (Data,Var,Rel,No Wrap,Linear,Preferred State,No Null Position)
0xC0,          // End Collection
0xC0,          // End Collection
0x05, 0x01,    // Usage Page (Generic Desktop Ctrls)
0x09, 0x80,    // Usage (Sys Control)
0xA1, 0x01,    // Collection (Application)
0x85, 0x02,    // Report ID (2)
0x19, 0x81,    // Usage Minimum (Sys Power Down)
0x29, 0x88,    // Usage Maximum (Sys Menu Exit)
0x15, 0x00,    // Logical Minimum (0)
0x25, 0x01,    // Logical Maximum (1)
0x75, 0x01,    // Report Size (1)
0x95, 0x08,    // Report Count (8)
0x81, 0x02,    // Input (Data,Var,Abs,No Wrap,Linear,Preferred State,No Null Position)
0xC0,          // End Collection
0x05, 0x0C,    // Usage Page (Consumer)
0x09, 0x01,    // Usage (Consumer Control)
0xA1, 0x01,    // Collection (Application)
0x85, 0x03,    // Report ID (3)
0x19, 0x00,    // Usage Minimum (Unassigned)
0x2A, 0x3C, 0x02, // Usage Maximum (AC Format)
0x15, 0x00,    // Logical Minimum (0)
0x26, 0x3C, 0x02, // Logical Maximum (572)
0x75, 0x10,    // Report Size (16)
0x95, 0x01,    // Report Count (1)
0x81, 0x00,    // Input (Data,Array,Abs,No Wrap,Linear,Preferred State,No Null Position)
0xC0,          // End Collection
```