

USB Composite Device

Connection Status Device connected
Current Configuration 1
Speed Full (12 Mbit/s)
Device Address 11
Number Of Open Pipes 3

Device Descriptor MarkOne

| Offset | Field | Size | Value | Description |
|--------|--------------------|------|-------|----------------------------------|
| 0 | bLength | 1 | 12h | |
| 1 | bDescriptorType | 1 | 01h | Device |
| 2 | bcdUSB | 2 | 0200h | USB Spec 2.0 |
| 4 | bDeviceClass | 1 | EFh | Miscellaneous |
| 5 | bDeviceSubClass | 1 | 02h | Common Class |
| 6 | bDeviceProtocol | 1 | 01h | Interface Association Descriptor |
| 7 | bMaxPacketSize0 | 1 | 40h | 64 bytes |
| 8 | idVendor | 2 | 340Ch | |
| 10 | idProduct | 2 | 0001h | |
| 12 | bcdDevice | 2 | 0200h | 2.00 |
| 14 | iManufacturer | 1 | 01h | "T.R.U.N" |
| 15 | iProduct | 1 | 02h | "MarkOne" |
| 16 | iSerialNumber | 1 | 03h | "COMP001" |
| 17 | bNumConfigurations | 1 | 01h | |

Configuration Descriptor 1 Bus Powered, 500 mA

| Offset | Field | Size | Value | Description |
|--------|---|------|----------|-----------------|
| 0 | bLength | 1 | 09h | |
| 1 | bDescriptorType | 1 | 02h | Configuration |
| 2 | wTotalLength | 2 | 005Dh | |
| 4 | bNumInterfaces | 1 | 03h | |
| 5 | bConfigurationValue | 1 | 01h | |
| 6 | iConfiguration | 1 | 00h | |
| 7 | bmAttributes | 1 | 80h | Bus Powered |
| | 4..0: Reserved | | ...00000 | |
| | 5: Remote Wakeup | | ..0..... | No |
| | 6: Self Powered | | .0..... | No, Bus Powered |
| | 7: Reserved (set to one) (bus-powered for 1.0) | | 1..... | |
| 8 | bMaxPower | 1 | FAh | 500 mA |

Interface Descriptor 0/0 HID, 1 Endpoint

| Offset | Field | Size | Value | Description |
|--------|--------------------|------|-------|-------------|
| 0 | bLength | 1 | 09h | |
| 1 | bDescriptorType | 1 | 04h | Interface |
| 2 | bInterfaceNumber | 1 | 00h | |
| 3 | bAlternateSetting | 1 | 00h | |
| 4 | bNumEndpoints | 1 | 01h | |
| 5 | bInterfaceClass | 1 | 03h | HID |
| 6 | bInterfaceSubClass | 1 | 00h | |
| 7 | bInterfaceProtocol | 1 | 00h | |
| 8 | iInterface | 1 | 00h | |

HID Descriptor

| Offset | Field | Size | Value | Description |
|--------|-------------------|------|-------|-------------|
| 0 | bLength | 1 | 09h | |
| 1 | bDescriptorType | 1 | 21h | HID |
| 2 | bcdHID | 2 | 0111h | 1.11 |
| 4 | bCountryCode | 1 | 00h | |
| 5 | bNumDescriptors | 1 | 01h | |
| 6 | bDescriptorType | 1 | 22h | Report |
| 7 | wDescriptorLength | 2 | 003Ah | 58 bytes |

Endpoint Descriptor 83 3 In, Interrupt, 5 ms

| Offset | Field | Size | Value | Description |
|--------|---------------------|------|----------|-------------|
| 0 | bLength | 1 | 07h | |
| 1 | bDescriptorType | 1 | 05h | Endpoint |
| 2 | bEndpointAddress | 1 | 83h | 3 In |
| 3 | bmAttributes | 1 | 03h | Interrupt |
| | 1..0: Transfer Type | |11 | Interrupt |
| | 7..2: Reserved | | 000000.. | |
| 4 | wMaxPacketSize | 2 | 0004h | 4 bytes |

6 bInterval 1 05h 5 ms

Interface Association Descriptor Abstract Control Model

| Offset | Field | Size | Value | Description |
|--------|-------------------|------|-------|------------------------|
| 0 | bLength | 1 | 08h | |
| 1 | bDescriptorType | 1 | 0Bh | Interface Association |
| 2 | bFirstInterface | 1 | 01h | |
| 3 | bInterfaceCount | 1 | 02h | |
| 4 | bFunctionClass | 1 | 02h | CDC Control |
| 5 | bFunctionSubClass | 1 | 02h | Abstract Control Model |
| 6 | bFunctionProtocol | 1 | 01h | AT Commands: V.250 etc |
| 7 | iFunction | 1 | 00h | |

Interface Descriptor 1/0 CDC Control, 0 Endpoints

| Offset | Field | Size | Value | Description |
|--------|--------------------|------|-------|------------------------|
| 0 | bLength | 1 | 09h | |
| 1 | bDescriptorType | 1 | 04h | Interface |
| 2 | bInterfaceNumber | 1 | 01h | |
| 3 | bAlternateSetting | 1 | 00h | |
| 4 | bNumEndpoints | 1 | 00h | |
| 5 | bInterfaceClass | 1 | 02h | CDC Control |
| 6 | bInterfaceSubClass | 1 | 02h | Abstract Control Model |
| 7 | bInterfaceProtocol | 1 | 01h | AT Commands: V.250 etc |
| 8 | iInterface | 1 | 00h | |

Header Functional Descriptor

| Offset | Field | Size | Value | Description |
|--------|--------------------|------|-------|--------------|
| 0 | bFunctionLength | 1 | 05h | |
| 1 | bDescriptorType | 1 | 24h | CS Interface |
| 2 | bDescriptorSubtype | 1 | 00h | Header |
| 3 | bcdCDC | 2 | 1001h | 10.01 |

Header Functional Descriptor

| Offset | Field | Size | Value | Description |
|--------|--------------------|------|-------|--------------|
| 0 | bFunctionLength | 1 | 05h | |
| 1 | bDescriptorType | 1 | 24h | CS Interface |
| 2 | bDescriptorSubtype | 1 | 00h | Header |
| 3 | bcdCDC | 2 | 0200h | 2.00 |

Abstract Control Management Functional Descriptor

| Offset | Field | Size | Value | Description |
|--------|--------------------|------|----------|--|
| 0 | bFunctionLength | 1 | 04h | |
| 1 | bDescriptorType | 1 | 24h | CS Interface |
| 2 | bDescriptorSubtype | 1 | 02h | Abstract Control Management |
| 3 | bmCapabilities | 1 | 02h | |
| | 7..4: Reserved | | 0000.... | |
| | 3: Connection | |0... | |
| | 2: Send Break | |0.. | |
| | 1: Line Coding | |1. | Line Coding requests and Serial State notification supported |
| | 0: Comm Features | |0 | |

Union Functional Descriptor

| Offset | Field | Size | Value | Description |
|--------|------------------------|------|-------|--------------|
| 0 | bFunctionLength | 1 | 05h | |
| 1 | bDescriptorType | 1 | 24h | CS Interface |
| 2 | bDescriptorSubtype | 1 | 06h | Union |
| 3 | bControlInterface | 1 | 01h | |
| 4 | bSubordinateInterface0 | 1 | 02h | CDC Data |

Interface Descriptor 2/0 CDC Data, 2 Endpoints

| Offset | Field | Size | Value | Description |
|--------|--------------------|------|-------|-------------|
| 0 | bLength | 1 | 09h | |
| 1 | bDescriptorType | 1 | 04h | Interface |
| 2 | bInterfaceNumber | 1 | 02h | |
| 3 | bAlternateSetting | 1 | 00h | |
| 4 | bNumEndpoints | 1 | 02h | |
| 5 | bInterfaceClass | 1 | 0Ah | CDC Data |
| 6 | bInterfaceSubClass | 1 | 00h | |
| 7 | bInterfaceProtocol | 1 | 00h | |
| 8 | iInterface | 1 | 00h | |

Endpoint Descriptor 01 1 Out, Bulk, 64 bytes

| Offset | Field | Size | Value | Description |
|--------|---------------------|------|----------|-------------|
| 0 | bLength | 1 | 07h | |
| 1 | bDescriptorType | 1 | 05h | Endpoint |
| 2 | bEndpointAddress | 1 | 01h | 1 Out |
| 3 | bmAttributes | 1 | 02h | Bulk |
| | 1..0: Transfer Type | |10 | Bulk |
| | 7..2: Reserved | | 000000.. | |
| 4 | wMaxPacketSize | 2 | 0040h | 64 bytes |
| 6 | bInterval | 1 | 00h | |

Endpoint Descriptor 82 2 In, Bulk, 64 bytes

| Offset | Field | Size | Value | Description |
|--------|---------------------|------|----------|-------------|
| 0 | bLength | 1 | 07h | |
| 1 | bDescriptorType | 1 | 05h | Endpoint |
| 2 | bEndpointAddress | 1 | 82h | 2 In |
| 3 | bmAttributes | 1 | 02h | Bulk |
| | 1..0: Transfer Type | |10 | Bulk |
| | 7..2: Reserved | | 000000.. | |
| 4 | wMaxPacketSize | 2 | 0040h | 64 bytes |
| 6 | bInterval | 1 | 00h | |

Interface 0 HID Report Descriptor Game Pad

| Item Tag (Value) | Raw Data |
|--|----------|
| Usage Page (Generic Desktop) | 05 01 |
| Usage (Game Pad) | 09 05 |
| Collection (Application) | A1 01 |
| Collection (Physical) | A1 00 |
| Report ID (1) | 85 01 |
| Usage Page (Button) | 05 09 |
| Usage Minimum (Button 1) | 19 01 |
| Usage Maximum (Button 32) | 29 20 |
| Logical Minimum (0) | 15 00 |
| Logical Maximum (1) | 25 01 |
| Report Size (1) | 75 01 |
| Report Count (32) | 95 20 |
| Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit) | 81 02 |
| Usage Page (Generic Desktop) | 05 01 |
| Usage (X) | 09 30 |
| Usage (Y) | 09 31 |
| Usage (Z) | 09 32 |
| Usage (Rx) | 09 33 |
| Usage (Ry) | 09 34 |
| Usage (Rz) | 09 35 |
| Usage (Slider) | 09 36 |
| Usage (Dial) | 09 37 |
| Logical Minimum (-32768) | 16 00 80 |
| Logical Maximum (32767) | 26 FF 7F |
| Report Size (16) | 75 10 |
| Report Count (8) | 95 08 |
| Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit) | 81 02 |
| End Collection | C0 |
| End Collection | C0 |

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