

USB Input Device

Connection Status Device connected
Current Configuration 1
Speed Full (12 Mbit/s)
Device Address 4
Number Of Open Pipes 2

Device Descriptor SideWinder Force Feedback Wheel (USB)

Offset	Field	Size	Value	Description
0	bLength	1	12h	
1	bDescriptorType	1	01h	Device
2	bcdUSB	2	0100h	USB Spec 1.0
4	bDeviceClass	1	00h	Class info in Ifc Descriptors
5	bDeviceSubClass	1	00h	
6	bDeviceProtocol	1	00h	
7	bMaxPacketSize0	1	08h	8 bytes
8	idVendor	2	045Eh	Microsoft Corp.
10	idProduct	2	0034h	
12	bcdDevice	2	0101h	1.01
14	iManufacturer	1	01h	"Microsoft"
15	iProduct	1	02h	"SideWinder Force Feedback Wheel (USB)"
16	iSerialNumber	1	00h	
17	bNumConfigurations	1	01h	

Configuration Descriptor 1 Bus Powered, 100 mA

Offset	Field	Size	Value	Description
0	bLength	1	09h	
1	bDescriptorType	1	02h	Configuration
2	wTotalLength	2	0029h	
4	bNumInterfaces	1	01h	
5	bConfigurationValue	1	01h	
6	iConfiguration	1	00h	
7	bmAttributes	1	A0h	Bus Powered, Remote Wakeup
	4..0: Reserved		...00000	
	5: Remote Wakeup		..1.....	Yes
	6: Self Powered		.0.....	No, Bus Powered
	7: Reserved (set to one) (bus-powered for 1.0)		1.....	
8	bMaxPower	1	32h	100 mA

Interface Descriptor 0/0 HID, 2 Endpoints

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	02h	
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	0100h	1.00
4	bCountryCode	1	00h	
5	bNumDescriptors	1	01h	
6	bDescriptorType	1	22h	Report
7	wDescriptorLength	2	0510h	1296 bytes

Endpoint Descriptor 81 1 In, Interrupt, 1 ms

Offset	Field	Size	Value	Description
0	bLength	1	07h	
1	bDescriptorType	1	05h	Endpoint
2	bEndpointAddress	1	81h	1 In
3	bmAttributes	1	03h	Interrupt
	1..0: Transfer Type	11	Interrupt
	7..2: Reserved		000000..	
4	wMaxPacketSize	2	0040h	64 bytes
6	bInterval	1	01h	1 ms

Endpoint Descriptor 02 2 Out, Interrupt, 4 ms

Offset	Field	Size	Value	Description
0	bLength	1	07h	
1	bDescriptorType	1	05h	Endpoint
2	bEndpointAddress	1	02h	2 Out
3	bmAttributes	1	03h	Interrupt
	1..0: Transfer Type	11	Interrupt
	7..2: Reserved		000000..	
4	wMaxPacketSize	2	0010h	16 bytes
6	bInterval	1	04h	4 ms

Interface 0 HID Report Descriptor Joystick

Item Tag (Value)	Raw Data
Usage Page (Generic Desktop)	05 01
Usage (Joystick)	09 04
Collection (Application)	A1 01
Report ID (1)	85 01
Usage (X)	09 30
Logical Minimum (-512)	16 00 FE
Logical Maximum (511)	26 FF 01
Physical Minimum (0)	35 00
Physical Maximum (1023)	46 FF 03
Report Size (10)	75 0A
Report Count (1)	95 01
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 02
Report Size (6)	75 06
Input (Cnst,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 03
Collection (Physical)	A1 00
Usage Page (Generic Desktop)	05 01
Usage (Y)	09 31
Logical Minimum (0)	15 00
Logical Maximum (63)	25 3F
Physical Minimum (0)	35 00
Physical Maximum (63)	45 3F
Report Size (6)	75 06
Report Count (1)	95 01
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 02
Report Size (2)	75 02
Input (Cnst,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 03
Usage (Rz)	09 35
Report Size (6)	75 06
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 02
Report Size (2)	75 02
Input (Cnst,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 03
End Collection	C0
Usage Page (Button)	05 09
Logical Minimum (0)	15 00
Usage Minimum (Button 1)	19 01
Usage Maximum (Button 8)	29 08
Logical Maximum (1)	25 01
Physical Minimum (0)	35 00
Physical Maximum (1)	45 01
Report Size (1)	75 01
Report Count (8)	95 08
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 02
Usage Page (Vendor-Defined 2)	06 01 FF
Usage (Vendor-Defined 73)	09 49
Report Size (1)	75 01
Report Count (1)	95 01
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 02
Report Size (7)	75 07
Input (Cnst,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81 03
Usage Page (Physical Input Device)	05 0F
Usage (PID State Report)	09 92
Collection (Logical)	A1 02
Report ID (2)	85 02
Usage (Device Paused)	09 9F
Usage (Actuators Enabled)	09 A0
Usage (Safety Switch)	09 A4
Usage (Actuator Override Switch)	09 A5
Usage (Actuator Power)	09 A6
Logical Minimum (0)	15 00
Logical Maximum (1)	25 01
Physical Minimum (0)	35 00
Physical Maximum (1)	45 01
Report Size (1)	75 01

Report Count (5)	95	05	
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81	02	
Report Count (3)	95	03	
Input (Cnst,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81	03	
Usage (Effect Playing)	09	94	
Logical Minimum (0)	15	00	
Logical Maximum (1)	25	01	
Physical Minimum (0)	35	00	
Physical Maximum (1)	45	01	
Report Size (1)	75	01	
Report Count (1)	95	01	
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81	02	
Usage (Effect Block Index)	09	22	
Logical Minimum (1)	15	01	
Logical Maximum (40)	25	28	
Physical Minimum (1)	35	01	
Physical Maximum (40)	45	28	
Report Size (7)	75	07	
Report Count (1)	95	01	
Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)	81	02	
End Collection	C0		
Usage (Set Effect Report)	09	21	
Collection (Logical)	A1	02	
Report ID (1)	85	01	
Usage (Effect Block Index)	09	22	
Logical Minimum (1)	15	01	
Logical Maximum (40)	25	28	
Physical Minimum (1)	35	01	
Physical Maximum (40)	45	28	
Report Size (8)	75	08	
Report Count (1)	95	01	
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02	
Usage (Effect Type)	09	25	
Collection (Logical)	A1	02	
Usage (ET Constant Force)	09	26	
Usage (ET Ramp)	09	27	
Usage (ET Square)	09	30	
Usage (ET Sine)	09	31	
Usage (ET Triangle)	09	32	
Usage (ET Sawtooth Up)	09	33	
Usage (ET Sawtooth Down)	09	34	
Usage (ET Spring)	09	40	
Usage (ET Damper)	09	41	
Usage (ET Inertia)	09	42	
Usage (ET Friction)	09	43	
Usage (ET Custom Force Data)	09	28	
Logical Maximum (12)	25	0C	
Logical Minimum (1)	15	01	
Physical Minimum (1)	35	01	
Physical Maximum (12)	45	0C	
Report Size (8)	75	08	
Report Count (1)	95	01	
Output (Data,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	00	
End Collection	C0		
Usage (Duration)	09	50	
Usage (Trigger Repeat Interval)	09	54	
Usage (Sample Period)	09	51	
Logical Minimum (0)	15	00	
Logical Maximum (32767)	26	FF	7F
Physical Minimum (0)	35	00	
Physical Maximum (32767)	46	FF	7F
Unit (Eng Lin: Time (s))	66	03	10
Unit Exponent	55	FD	
Report Size (16)	75	10	
Report Count (3)	95	03	
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02	
Unit Exponent (0)	55	00	
Unit (None)	66	00	00
Usage (Gain)	09	52	
Logical Minimum (0)	15	00	
Logical Maximum (255)	26	FF	00
Physical Minimum (0)	35	00	
Physical Maximum (10000)	46	10	27
Report Size (8)	75	08	
Report Count (1)	95	01	
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02	

Usage (Trigger Button)	09	53
Logical Minimum (1)	15	01
Logical Maximum (8)	25	08
Physical Minimum (1)	35	01
Physical Maximum (8)	45	08
Report Size (8)	75	08
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Usage (Axes Enable)	09	55
Collection (Logical)	A1	02
Usage Page (Generic Desktop)	05	01
Usage (X)	09	30
Usage (Y)	09	31
Logical Minimum (0)	15	00
Logical Maximum (1)	25	01
Report Size (1)	75	01
Report Count (2)	95	02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
End Collection	C0	
Usage Page (Physical Input Device)	05	0F
Usage (Direction Enable)	09	56
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Report Count (5)	95	05
Output (Cnst,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	03
Usage (Direction)	09	57
Collection (Logical)	A1	02
Usage (Ordinal:Ordinal 1)	0B	01 00 0A 00
Usage (Ordinal:Ordinal 2)	0B	02 00 0A 00
Unit (Eng Rot: Degree)	66	14 00
Unit Exponent	55	FE
Logical Minimum (0)	15	00
Logical Maximum (255)	26	FF 00
Physical Minimum (0)	35	00
Physical Maximum (36000)	47	A0 8C 00 00
Unit (None)	66	00 00
Report Size (8)	75	08
Report Count (2)	95	02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Unit Exponent (0)	55	00
Unit (None)	66	00 00
End Collection	C0	
Usage Page (Physical Input Device)	05	0F
Usage (Start Delay)	09	A7
Unit (Eng Lin: Time (s))	66	03 10
Unit Exponent	55	FD
Logical Minimum (0)	15	00
Logical Maximum (32767)	26	FF 7F
Physical Minimum (0)	35	00
Physical Maximum (32767)	46	FF 7F
Report Size (16)	75	10
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Unit (None)	66	00 00
Unit Exponent (0)	55	00
End Collection	C0	
Usage Page (Physical Input Device)	05	0F
Usage (Set Envelope Report)	09	5A
Collection (Logical)	A1	02
Report ID (2)	85	02
Usage (Effect Block Index)	09	22
Logical Minimum (1)	15	01
Logical Maximum (40)	25	28
Physical Minimum (1)	35	01
Physical Maximum (40)	45	28
Report Size (8)	75	08
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Usage (Attack Level)	09	5B
Usage (Fade Level)	09	5D
Logical Minimum (0)	15	00
Logical Maximum (255)	26	FF 00
Physical Minimum (0)	35	00
Physical Maximum (10000)	46	10 27
Report Count (2)	95	02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02

Usage (Attack Time)	09 5C
Usage (Fade Time)	09 5E
Unit (Eng Lin: Time (s))	66 03 10
Unit Exponent	55 FD
Logical Maximum (32767)	26 FF 7F
Physical Maximum (32767)	46 FF 7F
Report Size (16)	75 10
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Physical Maximum (0)	45 00
Unit (None)	66 00 00
Unit Exponent (0)	55 00
End Collection	C0
Usage (Set Condition Report)	09 5F
Collection (Logical)	A1 02
Report ID (3)	85 03
Usage (Effect Block Index)	09 22
Logical Minimum (1)	15 01
Logical Maximum (40)	25 28
Physical Minimum (1)	35 01
Physical Maximum (40)	45 28
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Parameter Block Offset)	09 23
Logical Minimum (0)	15 00
Logical Maximum (1)	25 01
Physical Minimum (0)	35 00
Physical Maximum (1)	45 01
Report Size (4)	75 04
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Type Specific Block Offset)	09 58
Collection (Logical)	A1 02
Usage (Ordinal:Ordinal 1)	0B 01 00 0A 00
Usage (Ordinal:Ordinal 2)	0B 02 00 0A 00
Report Size (2)	75 02
Report Count (2)	95 02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
End Collection	C0
Logical Minimum (-128)	15 80
Logical Maximum (127)	25 7F
Physical Minimum (-10000)	36 F0 D8
Physical Maximum (10000)	46 10 27
Usage (CP Offset)	09 60
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Physical Minimum (-10000)	36 F0 D8
Physical Maximum (10000)	46 10 27
Usage (Positive Coefficient)	09 61
Usage (Negative Coefficient)	09 62
Report Count (2)	95 02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Logical Minimum (0)	15 00
Logical Maximum (255)	26 FF 00
Physical Minimum (0)	35 00
Physical Maximum (10000)	46 10 27
Usage (Positive Saturation)	09 63
Usage (Negative Saturation)	09 64
Report Size (8)	75 08
Report Count (2)	95 02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Dead Band)	09 65
Physical Maximum (10000)	46 10 27
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
End Collection	C0
Usage (Set Periodic Report)	09 6E
Collection (Logical)	A1 02
Report ID (4)	85 04
Usage (Effect Block Index)	09 22
Logical Minimum (1)	15 01
Logical Maximum (40)	25 28
Physical Minimum (1)	35 01
Physical Maximum (40)	45 28
Report Size (8)	75 08

Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Magnitude)	09 70
Logical Minimum (0)	15 00
Logical Maximum (255)	26 FF 00
Physical Minimum (0)	35 00
Physical Maximum (10000)	46 10 27
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Offset)	09 6F
Logical Minimum (-128)	15 80
Logical Maximum (127)	25 7F
Physical Minimum (-10000)	36 F0 D8
Physical Maximum (10000)	46 10 27
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Phase)	09 71
Unit (Eng Rot: Degree)	66 14 00
Unit Exponent	55 FE
Logical Minimum (0)	15 00
Logical Maximum (255)	26 FF 00
Physical Minimum (0)	35 00
Physical Maximum (36000)	47 A0 8C 00 00
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Period)	09 72
Logical Maximum (32767)	26 FF 7F
Physical Maximum (32767)	46 FF 7F
Unit (Eng Lin: Time (s))	66 03 10
Unit Exponent	55 FD
Report Size (16)	75 10
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Unit (None)	66 00 00
Unit Exponent (0)	55 00
End Collection	C0
Usage (Set Constant Force Report)	09 73
Collection (Logical)	A1 02
Report ID (5)	85 05
Usage (Effect Block Index)	09 22
Logical Minimum (1)	15 01
Logical Maximum (40)	25 28
Physical Minimum (1)	35 01
Physical Maximum (40)	45 28
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Magnitude)	09 70
Logical Minimum (-255)	16 01 FF
Logical Maximum (255)	26 FF 00
Physical Minimum (-10000)	36 F0 D8
Physical Maximum (10000)	46 10 27
Report Size (16)	75 10
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
End Collection	C0
Usage (Set Ramp Force Report)	09 74
Collection (Logical)	A1 02
Report ID (6)	85 06
Usage (Effect Block Index)	09 22
Logical Minimum (1)	15 01
Logical Maximum (40)	25 28
Physical Minimum (1)	35 01
Physical Maximum (40)	45 28
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Ramp Start)	09 75
Usage (Ramp End)	09 76
Logical Minimum (-128)	15 80
Logical Maximum (127)	25 7F
Physical Minimum (-10000)	36 F0 D8
Physical Maximum (10000)	46 10 27
Report Size (8)	75 08
Report Count (2)	95 02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02

End Collection	C0
Usage (Custom Force Data Report)	09 68
Collection (Logical)	A1 02
Report ID (7)	85 07
Usage (Effect Block Index)	09 22
Logical Minimum (1)	15 01
Logical Maximum (40)	25 28
Physical Minimum (1)	35 01
Physical Maximum (40)	45 28
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Custom Force Data Offset)	09 6C
Logical Minimum (0)	15 00
Logical Maximum (10000)	26 10 27
Physical Minimum (0)	35 00
Physical Maximum (10000)	46 10 27
Report Size (16)	75 10
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Custom Force Data)	09 69
Logical Minimum (-127)	15 81
Logical Maximum (127)	25 7F
Physical Minimum (0)	35 00
Physical Maximum (255)	46 FF 00
Report Size (8)	75 08
Report Count (12)	95 0C
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Buf)	92 02 01
End Collection	C0
Usage (Download Force Sample)	09 66
Collection (Logical)	A1 02
Report ID (8)	85 08
Usage Page (Generic Desktop)	05 01
Usage (X)	09 30
Usage (Y)	09 31
Logical Minimum (-127)	15 81
Logical Maximum (127)	25 7F
Physical Minimum (0)	35 00
Physical Maximum (255)	46 FF 00
Report Size (8)	75 08
Report Count (2)	95 02
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
End Collection	C0
Usage Page (Physical Input Device)	05 0F
Usage (Effect Operation Report)	09 77
Collection (Logical)	A1 02
Report ID (10)	85 0A
Usage (Effect Block Index)	09 22
Logical Minimum (1)	15 01
Logical Maximum (40)	25 28
Physical Minimum (1)	35 01
Physical Maximum (40)	45 28
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
Usage (Effect Operation)	09 78
Collection (Logical)	A1 02
Usage (Op Effect Start)	09 79
Usage (Op Effect Start Solo)	09 7A
Usage (Op Effect Stop)	09 7B
Logical Minimum (1)	15 01
Logical Maximum (3)	25 03
Report Size (8)	75 08
Report Count (1)	95 01
Output (Data,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 00
End Collection	C0
Usage (Loop Count)	09 7C
Logical Minimum (0)	15 00
Logical Maximum (255)	26 FF 00
Physical Minimum (0)	35 00
Physical Maximum (255)	46 FF 00
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91 02
End Collection	C0
Usage (PID Block Free Report)	09 90
Collection (Logical)	A1 02
Report ID (11)	85 0B

Usage (Effect Block Index)	09	22
Logical Maximum (40)	25	28
Logical Minimum (1)	15	01
Physical Minimum (1)	35	01
Physical Maximum (40)	45	28
Report Size (8)	75	08
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
End Collection	C0	
Usage (PID Device Control)	09	96
Collection (Logical)	A1	02
Report ID (12)	85	0C
Usage (DC Enable Actuators)	09	97
Usage (DC Disable Actuators)	09	98
Usage (DC Stop All Effects)	09	99
Usage (DC Device Reset)	09	9A
Usage (DC Device Pause)	09	9B
Usage (DC Device Continue)	09	9C
Logical Minimum (1)	15	01
Logical Maximum (6)	25	06
Report Size (8)	75	08
Report Count (1)	95	01
Output (Data,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	00
End Collection	C0	
Usage (Device Gain Report)	09	7D
Collection (Logical)	A1	02
Report ID (13)	85	0D
Usage (Device Gain)	09	7E
Logical Minimum (0)	15	00
Logical Maximum (255)	26	FF 00
Physical Minimum (0)	35	00
Physical Maximum (10000)	46	10 27
Report Size (8)	75	08
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
End Collection	C0	
Usage (Set Custom Force Report)	09	6B
Collection (Logical)	A1	02
Report ID (14)	85	0E
Usage (Effect Block Index)	09	22
Logical Minimum (1)	15	01
Logical Maximum (40)	25	28
Physical Minimum (1)	35	01
Physical Maximum (40)	45	28
Report Size (8)	75	08
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Usage (Sample Count)	09	6D
Logical Minimum (0)	15	00
Logical Maximum (255)	26	FF 00
Physical Minimum (0)	35	00
Physical Maximum (255)	46	FF 00
Report Size (8)	75	08
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Usage (Sample Period)	09	51
Unit (Eng Lin: Time (s))	66	03 10
Unit Exponent	55	FD
Logical Minimum (0)	15	00
Logical Maximum (32767)	26	FF 7F
Physical Minimum (0)	35	00
Physical Maximum (32767)	46	FF 7F
Report Size (16)	75	10
Report Count (1)	95	01
Output (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	91	02
Unit Exponent (0)	55	00
Unit (None)	66	00 00
End Collection	C0	
Usage (Create New Effect Report)	09	AB
Collection (Logical)	A1	02
Report ID (1)	85	01
Usage (Effect Type)	09	25
Collection (Logical)	A1	02
Usage (ET Constant Force)	09	26
Usage (ET Ramp)	09	27
Usage (ET Square)	09	30

Usage (ET Sine)	09 31
Usage (ET Triangle)	09 32
Usage (ET Sawtooth Up)	09 33
Usage (ET Sawtooth Down)	09 34
Usage (ET Spring)	09 40
Usage (ET Damper)	09 41
Usage (ET Inertia)	09 42
Usage (ET Friction)	09 43
Usage (ET Custom Force Data)	09 28
Logical Maximum (12)	25 0C
Logical Minimum (1)	15 01
Physical Minimum (1)	35 01
Physical Maximum (12)	45 0C
Report Size (8)	75 08
Report Count (1)	95 01
Feature (Data,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 00
End Collection	C0
Usage Page (Generic Desktop)	05 01
Usage (Byte Count)	09 3B
Logical Minimum (0)	15 00
Logical Maximum (511)	26 FF 01
Physical Minimum (0)	35 00
Physical Maximum (511)	46 FF 01
Report Size (10)	75 0A
Report Count (1)	95 01
Feature (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 02
Report Size (6)	75 06
Feature (Cnst,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 01
End Collection	C0
Usage Page (Physical Input Device)	05 0F
Usage (PID Block Load Report)	09 89
Collection (Logical)	A1 02
Report ID (2)	85 02
Usage (Effect Block Index)	09 22
Logical Maximum (40)	25 28
Logical Minimum (1)	15 01
Physical Minimum (1)	35 01
Physical Maximum (40)	45 28
Report Size (8)	75 08
Report Count (1)	95 01
Feature (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 02
Usage (Block Load Status)	09 8B
Collection (Logical)	A1 02
Usage (Block Load Success)	09 8C
Usage (Block Load Full)	09 8D
Usage (Block Load Error)	09 8E
Logical Maximum (3)	25 03
Logical Minimum (1)	15 01
Physical Minimum (1)	35 01
Physical Maximum (3)	45 03
Report Size (8)	75 08
Report Count (1)	95 01
Feature (Data,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 00
End Collection	C0
Usage (RAM Pool Available)	09 AC
Logical Minimum (0)	15 00
Logical Maximum (65535)	27 FF FF 00 00
Physical Minimum (0)	35 00
Physical Maximum (65535)	47 FF FF 00 00
Report Size (16)	75 10
Report Count (1)	95 01
Feature (Data,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 00
End Collection	C0
Usage (PID Pool Report)	09 7F
Collection (Logical)	A1 02
Report ID (3)	85 03
Usage (RAM Pool Size)	09 80
Report Size (16)	75 10
Report Count (1)	95 01
Logical Minimum (0)	15 00
Physical Minimum (0)	35 00
Logical Maximum (65535)	27 FF FF 00 00
Physical Maximum (65535)	47 FF FF 00 00
Feature (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 02
Usage (Simultaneous Effects Max)	09 83
Logical Maximum (255)	26 FF 00

Physical Maximum (255)	46 FF 00
Report Size (8)	75 08
Report Count (1)	95 01
Feature (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 02
Usage (Device Managed Pool)	09 A9
Usage (Shared Parameter Blocks)	09 AA
Report Size (1)	75 01
Report Count (2)	95 02
Logical Minimum (0)	15 00
Logical Maximum (1)	25 01
Physical Minimum (0)	35 00
Physical Maximum (1)	45 01
Feature (Data,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 02
Report Size (6)	75 06
Report Count (1)	95 01
Feature (Cnst,Var,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)	B1 03
End Collection	C0
End Collection	C0

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