```
Connection Status
                                       Device connected
Current Configuration
                                      High (480 Mbit/s)
Speed
Device Address
Number Of Open Pipes
Device Descriptor E1DA Cosmos ADC PCM32/384
 Offset
                                  Size Value
                                                              Description
                  Field
0
        bLength
                                 1
                                       12h
1
        bDescriptorType
                                 1
                                       01h
                                              Device
2
        bcdUSB
                                 2
                                       0200h
                                              USB Spec 2.0
4
                                 1
        bDeviceClass
                                       EFh
                                              Miscellaneous
5
        bDeviceSubClass
                                 1
                                       02h
                                              Common Class
6
        bDeviceProtocol
                                 1
                                       01h
                                              Interface Association Descriptor
7
        bMaxPacketSize0
                                 1
                                       40h
                                              64 bytes
8
        idVendor
                                 2
                                       2FC6h
10
        idProduct
                                 2
                                       6012h
                                 2
                                       0201h
                                              2.01
12
        bcdDevice
14
        iManufacturer
                                 1
                                       01h
                                              "E1DA"
                                              "E1DA Cosmos ADC PCM32/384"
15
        iProduct
                                 1
                                       02h
                                              "CTUA181119A"
16
        iSerialNumber
                                 1
                                       03h
        bNumConfigurations
                                 1
                                       01h
17
Device Qualifier Descriptor
 Offset
                  Field
                                  Size Value
                                                              Description
0
                                 1
                                       0Ah
        bLength
1
        bDescriptorType
                                 1
                                       06h
                                              Device Qualifier
2
                                              USB Spec 2.0
        bcdUSB
                                 2
                                       0200h
4
                                              Miscellaneous
        bDeviceClass
                                 1
                                       EFh
5
                                 1
                                       02h
                                              Common Class
        bDeviceSubClass
6
        bDeviceProtocol
                                 1
                                       01h
                                              Interface Association Descriptor
7
        bMaxPacketSize0
                                 1
                                       40h
                                              64 bytes
8
        bNumConfigurations
                                 1
                                       01h
        bReserved
                                       00h
Configuration Descriptor 1 Self Powered
 Offset
                          Field
                                                 Size
                                                           Value
                                                                         Description
          bLength
                                                1
                                                      09h
1
         bDescriptorType
                                                1
                                                      02h
                                                                     Configuration
2
         wTotalLength
                                                2
                                                      0152h
4
          bNumInterfaces
                                                1
                                                      04h
5
          bConfigurationValue
                                                1
                                                      01h
6
          iConfiguration
                                                1
                                                      00h
7
                                                1
                                                      C0h
                                                                     Self Powered
         bmAttributes
                                                      ...00000
         4..0: Reserved
         5: Remote Wakeup
                                                       ..0....
                                                                     No
          6: Self Powered
                                                       .1.....
                                                                     Yes
          7: Reserved (set to one)
                                                      1.....
          (bus-powered for 1.0)
                                                      00h
         bMaxPower
                                                1
                                                                     0 mA
Interface Association Descriptor Audio
  Offset
                      Field
                                        Size
                                               Value
                                                                  Description
0
                                       1
                                              08h
          bLength
                                              0Bh
                                                      Interface Association
1
          bDescriptorType
                                       1
          bFirstInterface
2
                                       1
                                              00h
3
          bInterfaceCount
                                              02h
                                       1
4
          bFunctionClass
                                              01h
                                                      Audio
                                       1
5
          bFunctionSubClass
                                       1
                                              aah
6
          bFunctionProtocol
                                       1
                                              20h
```

7	iFunction				1	6	30h		
Interf	ace Descriptor 0	/0 Aud	dio,						
Offse	et Fie	ld			Size	Val	ue		Description
0	bLength			1	L	09h			
1	bDescriptorTy	pe		1	L	04h		Interfa	ice
2	bInterfaceNuml	per		1	L	00h			
3	bAlternateSet ⁻	ting		1	L	00h			
4	bNumEndpoints			1	L	00h			
5	bInterfaceClas	SS		1	L	01h		Audio	
6	bInterfaceSub(Class		1	L	01h		Audio C	Control
7	bInterfacePro	tocol		1	L	20h			
8	iInterface			1	L	02h		"E1DA C	Cosmos ADC PCM32/384"
Audio	Control Interfac	e Head	der D	esc	ripto	r			
Offset		Siz			-	lue			Description
0	bLength	1	09h						·
1	bDescriptorType	1	24h					Au	dio Control Interface Header
2	02000. <u>-</u> ptoypc	7			02 04	40 (aa i		
_	gnized Audio Cla	-							
Offset		Siz			Valı				Description
0	bLength	1	08h		Val	<i>1</i> C			besci iption
1	bDescriptorType	_	24h					Unrec	ognized Audio Class-Specific
2	bbcsci ipcoi type	6			03 07	aa i	aa	OIII CC	ognized Addio eldss specifie
	Control Input Te	-				00 (90		
Offset		Size		CI-T	-	/alue			Docanintion
					v	атие			Description
0	bLength	1	11h						Audia Cantnal Innut Innut
1	bDescriptorType	1	24h	. .	22.06	00 0	\		Audio Control Input Terminal
2		15			93 06				
	Control Feature		Descr		00 00 : or			00	
Offset		Siz	-			Valu	e		Description
0	bLength	1	12h						
1	bDescriptorType	1	24h						Audio Control Feature Unit
2		16		-	-			00 OC	
		-					00	00 00	
	Control Output T			scr	-				
Offset		Size	!		V	alue			Description
0	bLength	1	0Ch						
1	bDescriptorType	1	24h						Audio Control Output Terminal
2		10	03 0	D 6	1 01	00 0	В 0	F 00	
		10							
2			00 O	10					
	ace Descriptor 1			-	ndpoi	ints			
			dio,	-	ndpoi	ints Siz	:e	Value	Description
Interf	et	/0 Aud	dio,	-	indpoi		_	Value 09h	Description
Interf Offs 0	e t bLength	/0 Aud Field	dio,	-	indpoi	Siz 1		09h	•
Interf Offs 0	et bLength bDescriptorT	/0 Aud Field ype	dio,	-	indpoi	Siz		09h 04h	Description Interface
Interf Offs 0 1 2	bLength bDescriptorT bInterfaceNu	/0 Aud Field ype mber	dio,	-	indpoi	Siz 1 1 1		09h 04h 01h	•
Interf Offs 0 1 2	bLength bDescriptorT bInterfaceNu bAlternateSe	/0 Aud Field ype mber tting	dio,	-	indpoi	Siz 1 1 1		09h 04h 01h 00h	·
Interf Offs 0 1 2 3	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint	/0 Aud Field ype mber etting	dio,	-	indpoi	Siz 1 1 1 1		09h 04h 01h 00h 00h	Interface
Interf Offs 0 1 2 3 4 5	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl	/0 Aud Field Type Imber Inting S	dio,	-	ndpoi	Siz 1 1 1 1 1		09h 04h 01h 00h 00h 01h	Interface Audio
Interf Offs 0 1 2 3 4 5 6	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu	/0 Aud Field Type mber tting s ass bClass	dio,	-	indpoi	Siz 1 1 1 1 1 1		09h 04h 01h 00h 00h 01h 02h	Interface
Interf Offs 0 1 2 3 4 5 6 7	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu	/0 Aud Field Type mber tting s ass bClass	dio,	-	indpoi	Siz 1 1 1 1 1 1 1 1		09h 04h 01h 00h 00h 01h 02h	Interface Audio Audio Streaming
Interf Offs 0 1 2 3 4 5 6 7 8	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu bInterfacePr iInterface	/0 Aud Field Type mber tting s ass bClass otoco	dio,	Ø E		Siz 1 1 1 1 1 1 1 1		09h 04h 01h 00h 00h 01h 02h	Interface Audio
Interf Offs 0 1 2 3 4 5 6 7 8 Interf	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu bInterfacePr iInterface	/0 Aud Field ype mber tting s ass bClass otoco	s l	Ø E		Siz 1 1 1 1 1 1 1 1 1		09h 04h 01h 00h 00h 01h 02h 20h	Interface Audio Audio Streaming "Record Interface"
Interf Offs 0 1 2 3 4 5 6 7 8 Interf	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu bInterfacePr iInterface face Descriptor 1	/0 Aud Field Type mber tting s ass bClass otoco	s l	Ø E		Siz 1 1 1 1 1 1 1 1 1 1 Sint		09h 04h 01h 00h 00h 01h 02h 20h 05h	Interface Audio Audio Streaming "Record Interface"
Interf	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu bInterfacePr iInterface face Descriptor 1 set bLength	/0 Aud Field ype mber tting s ass bClass otoco	s l	Ø E		Siz 1 1 1 1 1 1 1 1 1 1 1 1 1		09h 04h 01h 00h 00h 01h 02h 20h 05h • Val	Interface Audio Audio Streaming "Record Interface" ue Description
Interf	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu bInterfacePr iInterface ace Descriptor 1 set bLength bDescriptor	/0 Aud Field Type Mber tting s ass bClass otoco /1 Aud Fiel	s l	Ø E		Siz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		09h 04h 01h 00h 00h 01h 02h 20h 05h • Val 09h 04h	Interface Audio Audio Streaming "Record Interface"
Interf Offs 0 1 2 3 4 5 6 7 8 Interf Offs	bLength bDescriptorT bInterfaceNu bAlternateSe bNumEndpoint bInterfaceCl bInterfaceSu bInterfacePr iInterface face Descriptor 1 set bLength	/0 Aud Field ype mber tting s ass bClass otoco /1 Aud Fiel Type umber	s l dio,	Ø E		Siz 1 1 1 1 1 1 1 1 1 1 1 1 1		09h 04h 01h 00h 00h 01h 02h 20h 05h • Val	Interface Audio Audio Streaming "Record Interface" ue Description

```
4
           bNumEndpoints
                                                   01h
                                            1
5
                                                   01h
           bInterfaceClass
                                            1
                                                             Audio
6
           bInterfaceSubClass
                                            1
                                                   02h
                                                             Audio Streaming
7
           bInterfaceProtocol
                                            1
                                                    20h
                                                   00h
           iInterface
                                            1
Audio Streaming Interface Descriptor
Offset
              Field
                          Size
                                          Value
                                                                     Description
0
       bLength
                          1
                               10h
1
       bDescriptorType
                               24h
                                                            Audio Streaming Interface
                         1
                               01 0D 05 01 01 00 00 00
                               02 03 00 00 00 00
Audio Streaming Format Type Descriptor
 Offset
                Field
                              Size
                                         Value
                                                                 Description
0
        bLength
                             1
                                   96h
1
        b {\tt DescriptorType}
                                   24h
                                                    Audio Streaming Format Type
                             1
2
                             4
                                   02 01 02 10
Endpoint Descriptor 82 2 In, Isochronous, 125 us
                                                                Description
Offset
                                 Size
                                         Value
                 Field
        bLength
                                1
                                      07h
        bDescriptorType
                                      05h
                                1
                                                  Endpoint
1
        bEndpointAddress
                                                  2 In
2
                                      82h
                                1
3
                                                  Isochronous, Asynchronous, Data
        bmAttributes
                                1
                                      05h
        1..0: Transfer Type
                                                  Isochronous
                                      .....01
        3..2: Sync Type
                                      ....01..
                                                  Asynchronous
        5..4: Usage Type
                                      ..00....
                                                  Data
        7..6: Reserved
                                      00.....
4
        wMaxPacketSize
                                2
                                      0308h
                                                  776 bytes
        bInterval
                                1
                                      01h
                                                  125 us
Audio Streaming Isochronous Audio Data Endpoint Descriptor
Offse
           Field
                     Size
                                Value
                                                             Description
  t
                          08h
0
      bLength
                     1
      bDescriptorTyp<sub>1</sub>
                                            Audio Streaming Isochronous Audio Data
                          25h
1
                                            Endpoint
                          01 00 00 00 00 00
2
                     6
Interface Descriptor 1/2 Audio, 1 Endpoint
  Offset
                         Field
                                             Size
                                                                    Description
                                                     Value
           bLength
                                                   09h
0
                                            1
           bDescriptorType
                                                             Interface
1
                                            1
                                                   04h
2
           bInterfaceNumber
                                            1
                                                   01h
3
           bAlternateSetting
                                            1
                                                   02h
           bNumEndpoints
                                            1
                                                   01h
5
           bInterfaceClass
                                            1
                                                   01h
                                                             Audio
           bInterfaceSubClass
                                                   02h
                                                             Audio Streaming
                                            1
           bInterfaceProtocol
                                                    20h
                                            1
           iInterface
                                                   00h
Audio Streaming Interface Descriptor
Offset
              Field
                          Size
                                          Value
                                                                     Description
а
       bLength
                               10h
                                                            Audio Streaming Interface
1
       bDescriptorType
                               24h
                               01 0D 05 01 01 00 00 00
                          14
                               02 03 00 00 00 00
Audio Streaming Format Type Descriptor
 Offset
                              Size
                Field
                                         Value
                                                                 Description
0
                                   06h
        bLength
                             1
                                                    Audio Streaming Format Type
1
        bDescriptorType
                             1
                                   24h
2
                             4
                                   02 01 03 18
```

```
Offset
                 Field
                                 Size
                                         Value
                                                               Description
0
        bLength
                                1
                                      a7h
1
        bDescriptorType
                                1
                                      05h
                                                 Endpoint
2
        bEndpointAddress
                                1
                                      82h
                                                 2 In
3
        bmAttributes
                                      05h
                                                 Isochronous, Asynchronous, Data
                                1
        1..0: Transfer Type
                                      .....01
                                                  Isochronous
        3..2: Sync Type
                                      ....01..
                                                 Asynchronous
        5..4: Usage Type
                                      ..00....
                                                 Data
        7..6: Reserved
                                      00....
4
        wMaxPacketSize
                                2
                                      0308h
                                                 776 bytes
6
        bInterval
                                1
                                      01h
                                                 125 us
Audio Streaming Isochronous Audio Data Endpoint Descriptor
Offse
           Field
                     Size
                                Value
                                                             Description
  t
0
                     1
                          08h
      bLength
      bDescriptorTyp<sub>1</sub>
                                           Audio Streaming Isochronous Audio Data
1
                          25h
                                           Endpoint
                         01 00 00 00 00 00
2
Interface Descriptor 1/3 Audio, 1 Endpoint
                                             Size
                                                                    Description
  Offset
                        Field
                                                     Value
                                                   09h
0
           bLength
                                            1
           bDescriptorType
                                                   04h
                                                            Interface
1
                                            1
2
           bInterfaceNumber
                                            1
                                                   01h
3
           bAlternateSetting
                                            1
                                                   03h
4
           bNumEndpoints
                                            1
                                                   01h
5
           bInterfaceClass
                                            1
                                                   01h
                                                            Audio
6
           bInterfaceSubClass
                                            1
                                                   02h
                                                            Audio Streaming
           bInterfaceProtocol
                                            1
                                                   20h
           iInterface
                                                   00h
Audio Streaming Interface Descriptor
Offset
              Field
                          Size
                                          Value
                                                                    Description
                               10h
a
       bLength
                               24h
1
       bDescriptorType
                                                           Audio Streaming Interface
                         1
                               01 0D 05 01 01 00 00 00
2
                         14
                               02 03 00 00 00 00
Audio Streaming Format Type Descriptor
 Offset
                Field
                              Size
                                                                 Description
                                         Value
0
        bLength
                             1
                                   06h
1
        bDescriptorType
                             1
                                   24h
                                                    Audio Streaming Format Type
                                   02 01 04 20
2
                             4
Endpoint Descriptor 82 2 In, Isochronous, 125 us
Offset
                 Field
                                 Size
                                         Value
                                                               Description
0
        bLength
                                      07h
        bDescriptorType
                                      05h
                                                 Endpoint
1
                                1
        bEndpointAddress
                                      82h
2
                                1
                                                 2 In
3
        bmAttributes
                                1
                                      05h
                                                 Isochronous, Asynchronous, Data
                                      .....01
        1..0: Transfer Type
                                                 Isochronous
                                      ....01..
        3..2: Sync Type
                                                 Asynchronous
        5..4: Usage Type
                                      ..00....
                                                 Data
        7..6: Reserved
                                      00....
4
        wMaxPacketSize
                                2
                                      0308h
                                                 776 bytes
        bInterval
                                1
                                      01h
                                                  125 us
Audio Streaming Isochronous Audio Data Endpoint Descriptor
Offse
           Field
                                Value
                                                             Description
                     Size
      bLength
                     1
                          08h
```

Endpoint Descriptor 82 2 In, Isochronous, 125 us

```
bDescriptorTyp<sub>1</sub>
                                            Audio Streaming Isochronous Audio Data
                          25h
1
                                            Endpoint
                          01 00 00 00 00 00
2
Interface Descriptor 1/4 Audio, 1 Endpoint
  Offset
                         Field
                                             Size
                                                                    Description
                                                     Value
                                                   09h
           bLength
                                            1
1
           bDescriptorType
                                            1
                                                   04h
                                                            Interface
2
           bInterfaceNumber
                                            1
                                                   01h
           bAlternateSetting
                                            1
                                                   04h
           bNumEndpoints
                                                   01h
                                            1
           bInterfaceClass
                                                   01h
                                                            Audio
           bInterfaceSubClass
6
                                            1
                                                   02h
                                                            Audio Streaming
                                                   20h
7
           bInterfaceProtocol
                                            1
           iInterface
                                            1
                                                   00h
Audio Streaming Interface Descriptor
Offset
              Field
                          Size
                                          Value
                                                                    Description
                               10h
       bLength
                         1
1
       bDescriptorType
                               24h
                                                            Audio Streaming Interface
                         1
                               01 0D 05 01 00 00 00 80
                          14
                               02 03 00 00 00 00
Audio Streaming Format Type Descriptor
 Offset
                                         Value
                Field
                              Size
                                                                 Description
        bLength
                                   06h
1
        bDescriptorType
                             1
                                   24h
                                                    Audio Streaming Format Type
                             4
                                   02 01 04 20
Endpoint Descriptor 82 2 In, Isochronous, 125 us
Offset
                 Field
                                 Size
                                         Value
                                                                Description
        bLength
                                1
                                      07h
        bDescriptorType
1
                                1
                                      05h
                                                  Endpoint
2
        bEndpointAddress
                                1
                                      82h
                                                  2 In
3
        bmAttributes
                                      05h
                                                  Isochronous, Asynchronous, Data
        1..0: Transfer Type
                                                  Isochronous
                                      .....01
        3..2: Sync Type
                                      ....01..
                                                  Asynchronous
        5..4: Usage Type
                                      ..00....
                                                  Data
        7..6: Reserved
                                      00....
                                2
                                      0308h
                                                  776 bytes
4
        wMaxPacketSize
        bInterval
                                      01h
6
                                1
                                                  125 us
Audio Streaming Isochronous Audio Data Endpoint Descriptor
Offse
           Field
                     Size
                                Value
                                                             Description
  t
0
      bLength
                     1
                          08h
      bDescriptorTyp<sub>1</sub>
                                            Audio Streaming Isochronous Audio Data
1
                          25h
                                            Endpoint
                          01 00 00 00 00 00
Interface Descriptor 2/0 HID, 2 Endpoints
  Offset
                                             Size
                                                     Value
                                                                    Description
                         Field
                                                   09h
           bLength
                                            1
1
           bDescriptorType
                                            1
                                                   04h
                                                            Interface
2
           bInterfaceNumber
                                                   02h
                                            1
3
           bAlternateSetting
                                                   00h
                                            1
           bNumEndpoints
                                                   02h
                                            1
           bInterfaceClass
                                            1
                                                   03h
                                                            HID
           bInterfaceSubClass
                                            1
                                                   00h
           bInterfaceProtocol
                                                   00h
                                            1
                                                             "HID Interface"
           iInterface
                                            1
                                                   07h
HID Descriptor
  Offset
                        Field
                                           Size
                                                   Value
                                                               Description
```

0	bLength	1	09h		
1	bDescriptorType		21h	HID	
2	bcdHID		0111h	1.11	
4	bCountryCode	1	00h		
5	bNumDescriptors	1	01h		
6	bDescriptorType		22h	Report	
7			001Dh	29 bytes	
	oint Descriptor 05 5 Out, Intern	2	001011	25 by ccs	
-	fset Field	ирс	Size	Value	Description
0	bLength	1		Value	Desci iption
1		1	_		Endnoint
	bDescriptorType				Endpoint
2	bEndpointAddress	1			5 Out
3	bmAttributes	1			Interrupt
	10: Transfer Type			11	Interrupt
	72: Reserved			100	
4	wMaxPacketSize	2		Sh	8 bytes
6	bInterval	1			
	oint Descriptor 86 6 In, Interru	pt, 32 m	5		
Off	fset Field		Size	Value	Description
0	bLength	1	07h		
1	bDescriptorType	1	05h		Endpoint
2	bEndpointAddress	1	86h		6 In
3	bmAttributes	1	03h		Interrupt
	10: Transfer Type			11	Interrupt
	72: Reserved			000	
4	wMaxPacketSize	2			8 bytes
6	bInterval	1			32 ms
	rface Descriptor 3/0 Vendor-Spec	_	_		32 m3
	fset Field		ize Valı	10	Description
0	bLength	1	09h	<i>AC</i>	Desci ipcion
1	bDescriptorType	1	04h	Interfa	0.00
2	bInterfaceNumber	1	-	Tillelila	ice
			03h		
3	bAlternateSetting	1	00h		
4	bNumEndpoints	1	02h		c
5	bInterfaceClass	1	FFh	venaor-	Specific
6	bInterfaceSubClass	1	F0h		
7	bInterfaceProtocol	1	00h		
8	iInterface	1	08h	"iAP Ir	nterface"
	oint Descriptor 07 7 Out, Bulk,	512 byte:			
	fset Field		Size	Value	Description
0	bLength	1	07h		
					C
1	bDescriptorType	1			Endpoint
			05h		7 Out
1	bDescriptorType	1	05h 07h		
1 2	bDescriptorType bEndpointAddress	1 1	05h 07h 02h	10	7 Out
1 2	bDescriptorType bEndpointAddress bmAttributes	1 1	05h 07h 02h	10	7 Out Bulk
1 2 3	<pre>bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved</pre>	1 1	05h 07h 02h 0000	100	7 Out Bulk Bulk
1 2 3	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize	1 1 1	05h 07h 02h 0000 0200	100	7 Out Bulk
1 2 3 4 6	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval	1 1 1 2 1	05h 07h 02h 0000 0200	100	7 Out Bulk Bulk
1 2 3 4 6 Endpo	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval wint Descriptor 88 8 In, Bulk, 5	1 1 1 2 1	05h 07h 02h 0000 0200 01h	900 9h	7 Out Bulk Bulk 512 bytes
1 2 3 4 6 Endpo	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval pint Descriptor 88 8 In, Bulk, 5	1 1 1 2 1 12 bytes	05h 07h 02h 0000 0200 01h	100	7 Out Bulk Bulk
1 2 3 4 6 Endpo Off	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval pint Descriptor 88 8 In, Bulk, 5 fset Field bLength	1 1 1 2 1 12 bytes	05h 07h 02h 0000 0200 01h Size	900 9h	7 Out Bulk Bulk 512 bytes Description
1 2 3 4 6 Endpo Off 0 1	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval pint Descriptor 88 8 In, Bulk, 5 Fset bLength bDescriptorType	1 1 1 2 12 bytes 1 1	05h 07h 02h 0000 0200 01h Size 07h 05h	900 9h	7 Out Bulk Bulk 512 bytes Description Endpoint
1 2 3 4 6 Endpo Off 0 1 2	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval sint Descriptor 88 8 In, Bulk, 5 Fset Field bLength bDescriptorType bEndpointAddress	1 1 2 1 12 bytes 1 1	05h 07h 02h 0006 0206 01h Size 07h 05h 88h	900 9h	7 Out Bulk Bulk 512 bytes Description Endpoint 8 In
1 2 3 4 6 Endpo Off 0 1	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval int Descriptor 88 8 In, Bulk, 5 fset Field bLength bDescriptorType bEndpointAddress bmAttributes	1 1 1 2 12 bytes 1 1	05h 07h 02h 0000 0200 01h Size 07h 05h 88h 02h	Value	7 Out Bulk Bulk 512 bytes Description Endpoint 8 In Bulk
1 2 3 4 6 Endpo Off 0 1 2	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval bint Descriptor 88 8 In, Bulk, 5 fset Field bLength bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type	1 1 2 1 12 bytes 1 1	05h 07h 02h 0000 01h Size 07h 05h 88h 02h	000 Oh Value 10	7 Out Bulk Bulk 512 bytes Description Endpoint 8 In
1 2 3 4 6 Endpo Off 0 1 2 3	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval bint Descriptor 88 8 In, Bulk, 5 fset Field bLength bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved	1 1 2 1 12 bytes 1 1 1	05h 07h 02h 0000 01h Size 07h 05h 88h 02h 	Value10	7 Out Bulk Bulk 512 bytes Description Endpoint 8 In Bulk Bulk
1 2 3 4 6 Endpo Off 0 1 2	bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type 72: Reserved wMaxPacketSize bInterval bint Descriptor 88 8 In, Bulk, 5 fset Field bLength bDescriptorType bEndpointAddress bmAttributes 10: Transfer Type	1 1 2 1 12 bytes 1 1	05h 07h 02h 0000 01h Size 07h 05h 88h 02h 	Value10	7 Out Bulk Bulk 512 bytes Description Endpoint 8 In Bulk

```
bInterval
                                                   01h
Other Speed Configuration Descriptor 1 Self Powered
Offset
                    Field
                                      Size
                                              Value
                                                                 Description
        bLength
                                      1
                                           09h
1
        bDescriptorType
                                      1
                                           07h
                                                       Other Speed Configuration
2
        wTotalLength
                                      2
                                           00C8h
        bNumInterfaces
4
                                      1
                                           02h
5
        bConfigurationValue
                                      1
                                           01h
6
        iConfiguration
                                      1
                                           00h
7
        bmAttributes
                                           C0h
                                                       Self Powered
        4..0: Reserved
                                           ...00000
        5: Remote Wakeup
                                            ..0....
                                                       No
        6: Self Powered
                                           .1....
                                                       Yes
        7: Reserved (set to one)
                                           1.....
        (bus-powered for 1.0)
        bMaxPower
                                           00h
                                                       0 mA
Interface Descriptor 0/0 Audio, 0 Endpoints
  Offset
                                            Size
                                                   Value
                                                                 Description
                        Field
                                                  09h
          bLength
                                           1
          bDescriptorType
                                                  04h
                                                           Interface
1
                                           1
          bInterfaceNumber
                                                  00h
2
                                           1
          bAlternateSetting
3
                                                  00h
                                           1
          bNumEndpoints
4
                                           1
                                                  00h
5
          bInterfaceClass
                                          1
                                                  01h
                                                           Audio
6
          bInterfaceSubClass
                                           1
                                                  01h
                                                           Audio Control
          bInterfaceProtocol
                                                  00h
          iInterface
                                                  00h
Audio Control Interface Header Descriptor
Offset
            Field
                       Size
                                      Value
                                                                 Description
0
       bLength
                       1
                            0Ah
1
       bDescriptorType 1
                            24h
                                                      Audio Control Interface Header
                            01 00 01 48 00 02 01 01
                       8
Audio Control Input Terminal Descriptor
Offset
                        Size
                                                                  Description
             Field
                                       Value
0
                             0Ch
       bLength
                        1
1
                             24h
                                                        Audio Control Input Terminal
       bDescriptorType 1
                             02 01 01 01 00 02 03 00
                        10
                             00 00
Audio Control Feature Unit Descriptor
Offset
                                                                  Description
             Field
                         Size
                                        Value
0
       bLength
                        1
                             0Ah
       bDescriptorType 1
                             24h
                                                         Audio Control Feature Unit
                        8
                             06 03 01 01 03 02 02 00
Audio Control Output Terminal Descriptor
                         Size
                                                                Description
             Field
                                       Value
                             09h
0
       bLength
1
       bDescriptorType 1
                             24h
                                                      Audio Control Output Terminal
                         7
                             03 04 02 03 00 03 00
Audio Control Input Terminal Descriptor
Offset
            Field
                        Size
                                                                  Description
                                       Value
a
       bLength
                        1
                             0Ch
1
       bDescriptorType 1
                             24h
                                                        Audio Control Input Terminal
                             02 0A 01 02 00 02 03 00
                        10
                             00 00
Audio Control Feature Unit Descriptor
             Field
                                                                  Description
Offset ...
                        Size
                                        Value
       bLength
                        1
                             0Ah
```

```
1
       bDescriptorType 1
                              24h
                                                          Audio Control Feature Unit
                              06 0B 0A 01 03 02 02 00
                         8
Audio Control Output Terminal Descriptor
Offset
             Field
                         Size
                                                                 Description
                                       Value
                              99h
0
       bLength
                         1
1
       bDescriptorType 1
                              24h
                                                      Audio Control Output Terminal
                              03 0D 01 01 00 0B 00
2
                         7
Interface Descriptor 1/0 Audio, 0 Endpoints
  Offset
                        Field
                                            Size
                                                    Value
                                                                   Description
0
           bLength
                                           1
                                                  09h
           bDescriptorType
                                                  04h
                                                           Interface
1
                                           1
           bInterfaceNumber
                                                  01h
2
                                           1
3
           bAlternateSetting
                                           1
                                                  00h
4
          bNumEndpoints
                                           1
                                                  00h
          bInterfaceClass
                                           1
                                                  01h
                                                           Audio
                                                           Audio Streaming
          bInterfaceSubClass
                                                  02h
6
                                           1
          bInterfaceProtocol
                                                  00h
7
                                           1
          iInterface
                                                  04h
Interface Descriptor 1/1 Audio, 1 Endpoint
                                            Size
  Offset
                                                    Value
                                                                   Description
                        Field
                                                  09h
          bLength
                                           1
          bDescriptorType
                                                  04h
                                                           Interface
1
                                           1
2
           bInterfaceNumber
                                                  01h
                                           1
3
           bAlternateSetting
                                           1
                                                  01h
4
          bNumEndpoints
                                           1
                                                  01h
5
          bInterfaceClass
                                           1
                                                  01h
                                                           Audio
           bInterfaceSubClass
                                           1
                                                  02h
                                                           Audio Streaming
           bInterfaceProtocol
                                           1
                                                  00h
8
           iInterface
                                                  00h
Audio Streaming Interface Descriptor
Offset
               Field
                             Size
                                         Value
                                                                 Description
0
                                  07h
        bLength
                            1
1
                                  24h
                                                      Audio Streaming Interface
        bDescriptorType
                            1
                            5
                                  01 01 01 01 00
Audio Streaming Format Type Descriptor
Offset
             Field
                        Size
                                                                   Description
                                        Value
                             0Eh
0
       bLength
                        1
1
                             24h
                                                         Audio Streaming Format Type
       bDescriptorType 1
                             02 01 02 02 10 02 44 AC
2
                        12
                             00 80 BB 00
Endpoint Descriptor 01 1 Out, Isochronous, 125 us
 Offset
                  Field
                                  Size
                                          Value
                                                                Description
0
        bLength
                                 1
                                       09h
1
        bDescriptorTvpe
                                       05h
                                                    Endpoint
                                 1
        bEndpointAddress
                                       01h
                                                    1 Out
2
                                 1
        bmAttributes
                                       09h
                                                    Isochronous, Adaptive, Data
3
        1..0: Transfer Type
                                       .....01
                                                    Isochronous
                                       ....10..
        3..2: Sync Type
                                                    Adaptive
        5..4: Usage Type
                                       ..00....
                                                    Data
        7..6: Reserved
                                       00....
                                       00F0h
4
        wMaxPacketSize
                                 2
                                                    240 bytes
6
        bInterval
                                 1
                                       01h
                                                    125 us
        bRefresh
                                       00h
                                 1
        bSynchAddress
                                       00h
                                  1
Audio Streaming Isochronous Audio Data Endpoint Descriptor
           Field
Offset
                     Size
                               Value
                                                           Description
      bLength
                     1 07h
```

```
bDescriptorTyp <sub>1</sub>
                                          Audio Streaming Isochronous Audio Data Endpoint
                           25h
1
                           01 01 00 01 00
2
                      5
Interface Descriptor 1/0 Audio, 0 Endpoints
0ffs
                  Siz Val
        Field
                                                    Description
 et
                      ue
0
     bLength
                  1
                     09h
    bDescriptorT<sub>1</sub>
                     04h Interface
1
     bInterfaceNu <sub>1</sub>
2
                      01h
     mber
                     _{\rm 00h} Should be one greater than the alternate setting number of the
     bAlternateSe 1
3
                          previous interface descriptor
     tting
     bNumEndpoint 1
4
                      00h
     bInterfaceCl 1
                     01h Audio
5
     bInterfaceSu 1
                     02h Audio Streaming
6
     bClass
     bInterfacePr 1
7
                     00h
     otocol
     iInterface 1 05h "Record Interface"
Interface Descriptor 1/1 Audio, 1 Endpoint
  Offset
                         Field
                                              Size
                                                     Value
                                                                     Description
           bLength
                                                    09h
1
           bDescriptorType
                                            1
                                                    04h
                                                             Interface
2
           bInterfaceNumber
                                            1
                                                    01h
3
           bAlternateSetting
                                            1
                                                    01h
4
           bNumEndpoints
                                            1
                                                    01h
5
           bInterfaceClass
                                            1
                                                    01h
                                                             Audio
6
           bInterfaceSubClass
                                            1
                                                    02h
                                                             Audio Streaming
7
           bInterfaceProtocol
                                                    00h
                                            1
           iInterface
                                                    00h
8
                                            1
Audio Streaming Interface Descriptor
Offset
                Field
                             Size
                                                                   Description
                                           Value
0
                                   07h
        bLength
                             1
                                   24h
                                                        Audio Streaming Interface
1
        bDescriptorType
                             1
                                   01 0D 01 01 00
                             5
Audio Streaming Format Type Descriptor
Offset
             Field
                         Size
                                         Value
                                                                     Description
0
       bLength
                              0Eh
1
       bDescriptorType 1
                              24h
                                                           Audio Streaming Format Type
                              02 01 02 02 10 02 44 AC
                         12
                              00 80 BB 00
Endpoint Descriptor 82 2 In, Isochronous, 125 us
 Offset
                                           Value
                                                                  Description
                   Field
                                   Size
                                        09h
0
        bLength
                                  1
1
        bDescriptorType
                                  1
                                        05h
                                                     Endpoint
2
        bEndpointAddress
                                        82h
                                  1
                                                     2 In
        bmAttributes
3
                                        09h
                                                     Isochronous, Adaptive, Data
                                   1
        1..0: Transfer Type
                                         .....01
                                                     Isochronous
        3..2: Sync Type
                                         ....10..
                                                     Adaptive
        5..4: Usage Type
                                                     Data
                                         ..00....
        7..6: Reserved
                                        00....
                                  2
                                        00C4h
                                                     196 bytes
4
        wMaxPacketSize
6
        bInterval
                                  1
                                        01h
                                                     125 us
        bRefresh
                                  1
                                        00h
```

8 bSynchAddress 1 00h Audio Streaming Isochronous Audio Data Endpoint Desc	criptor					
Offset Field Size Value	Description					
0 bLength 1 07h						
1 bDescriptorTyp 1 25h Audio Stream	ning Isochronous Audio Data Endpoint					
2 5 01 01 00 00 00						
<pre>Interface 2 HID Report Descriptor Vendor-Defined 1</pre>						
Item Tag (Value)	Raw Data					
Usage Page (Vendor-Defined 1)	06 00 FF					
Usage (Vendor-Defined 1)	09 01					
Collection (Application)	A1 01					
Usage Minimum (Vendor-Defined 1)	19 01					
Usage Maximum (Vendor-Defined 1)	29 01					
Logical Minimum (0)	15 00					
Logical Maximum (255)	26 FF 00					
Report Size (8)	75 08					
Report Count (7)	95 07					
<pre>Input (Data,Var,Abs,NWrp,Lin,Pref,NNul,Bit)</pre>	81 02					
Report Size (8)	75 08					
Report Count (7)	95 07					
<pre>Output (Cnst,Ary,Abs,NWrp,Lin,Pref,NNul,NVol,Bit)</pre>	91 01					
End Collection	C0					