



			127	PAYLOAD_USE_RANGE 2
		<b>USB ID</b>  Vendor 16D0 ..... ID 0D04 ..... ID 0D05 ..... ID 0D06 ID 0D07	<b>Year</b>  2018 2018 2015 2019	<b>Notes</b>  ID for 0x04 can also be set to 0d05,0d06, and 0d07, this was reserved for player ID. This only applies to Gamer Pro/GP (jr), GPA, 4-Play, and BlisSTer
<b>Modes bit mask</b> red items are read only  <b>Bit 0: autopause state</b> Bit 1: atl map bit 0 Bit 2: atl map bit 1 Bit 3: Hotswap Disabled Bit 4: UDLR mode Bit 5: Analog to D-pad Or Disable all combos(3.0) Bit 6: Autopause Disabled <b>Bit 7: d-pad only mode</b> Red items are read only		1:0 <b>paused:unpaused</b> - atl map bit 0 - atl map bit 1 1:0 on:off 1:0 on:off 1:0 on:off 1:0 on:off 1:0 on:off  When setting bits, they are absolute. If you set just one bit all others will go off. Set multiple bits for multiple options. For example to set apd and UDLR use 0x50. (0x10 + 0x40 = 0x50)		Autopause disabled: <b>Stops the controller from pressing start when unplugged.</b>  Alt map - there are 4, 0: default, mapping 1, mapping 2 mapping 3 Available on on 4.78 and greater.  Hotswap Disabled: will not detect controllers when the controller is unplugged, a reset is needed. This is not a desirable features and can cause undesired effects.  UDLR: this mode makes any analog controller's d-pad respond to analogs instead.  Analog to D-pad: converts analog data to d-pad buttons for d-pad only controllers (i.e snes) . <b>NOTE: The Bliss-Box will send d-pad only controllers (i.e snes) u,d,l,r buttons to analog by default..</b> This is only available on 2.0. 3.0 has an all combo disable feature that turns of the 3.0 cobo buttons options.  D-pad only mode: This mode is a 1 until the Bliss-Box see analog movement. It can be used to detect d-pad only gamepads.So it is read only

**NOTE: The Bliss-Box uses V-USB and therefore the highest speed is USB 1.1 high speed (not full speed). The v-usb is also not a hardware USB, so most of the code is spent appeasing the host. This works ok for v-USB but causes a few issues for sending data from host to client if the device needs to do anything time sensitive. Many of these controllers need just that. So it is designed to put the controller first and USB control transfers second. It simply will not work the other way around. All the host software needs to know, is that a control transfer can and will fail from time to time. Fortunately all USB API's handle errors. If you get an error, simply try again. Make sure to build in a time out so you do not get stuck in a loop if a real error condition is present.**

Get commands	Report ID	Returned Data	info
Get adapter info	0x11	Byte 0: controller type Byte 1: modes bit mask Byte 2: minor version Byte 3: player ID (subtract 3 from result) Byte 4: major version	This get command will return all data for the adapter. Controller, modes.
Get Controller Payload	0x10	Data  Byte 0 player ID Byte 1 button row 1 Byte 2 button row 2 Byte 3 button row 3 Byte 4 X main stick Byte 5 Y main stick Byte 6 Z AXIS 1 Byte 7 X Second stick Byte 8 Y Second stick Byte 9 Z AXIS 2 Byte 10 Slider Byte 11 Dial Byte 12 HAT	...  This is used for latency improvements. A USB Control transfer is much faster than an interrupt transfer thus this data will come to the software faster but it is not guaranteed ever poll. So there can be an occasional 8ms delay. The normal USB poll for Bliss-Box is every 16ms guaranteed. So this is still going to be the fastest bet but it is not built in to DX so you need to use the API.
Get Pressure PSX	0x15	Byte 0: player ID Byte 1-12: pressure data.	R,L,U,D,^,0,x,[],L1,R1,L2,R2
Get native response	0x16	Byte 0: player ID Byte 1: <b>PAYLOAD_USE</b> Byte 2: Size Byte 3-Size: data	Reply from controller would be limited to 255 currently.

Get EEprom	0x17	Byte 1-49: pressure data. FYI: Player ID is in EEprom.	Returns EEprom as explained above.
Get LCD Data	0x18	Byte 0: player ID Byte 1: -193 LCD data (192)	Gets LCD data stored in the eePROM.
<b>Set Commands</b> Report ID always 0x12	<b>Command code</b>	<b>Data Sent</b>	<b>Info</b>
Set modes/options	0x01	Byte 0: modes bit mask Byte 1: 1=Save 2=restore	If using second byte set Byte 0 to 0xff. Second byte restores defaults or saves to eeprom.
Set turbo speed	0x03	Speed of turbo 100is default rane is 1-254	
Set range selection	0x06	Bit mask 7 bits last is alway off.	1 n64 2 vectre 3 gameport 4-6 not in use
Set Rumble Motor	0x04/0x05	Use 0x04 for const and 0x05 for sine/square  3 bytes can be used. Byte 0, byte 1, byte 2  examples: 0 (this stops all rumble) 1, amount (starts rumble with amount) 2, amount, duration (2 bytes littleEndian) (starts rumble with amount and duration)	If the first byte is a 1 and no amount is given it defaults to 0xff (infinite)  If the first byte is 2 Duration defaults to 0xFF and amount to 0xFF if not specified.  NOTE: Not all controllers have an amount (n64, gc).and PSX can not produce low value (< 100 or so). Amount ranges from 1-255

Set Player	0x08	Byte 0: player number Byte 1: also resets port	Players can be 1,2,3, or 4 if byte 1 is set, device will reset
Set reset	0x10	none	Resets the Device
Set 4 Psx Pressure Button to extra analogs.	0x20	4 bytes  Mapps to HID: 1 Slider 2 Dial 3 z Axis 4 z Rotation	Default: (8) [] -> slider (7) X -> dial (5) L2 -> z Axis (6) R2 -> z Rotation  Available are: 1 d pad - R 2 d pad - L 3 d pad - U 4 d pad - D 5 ^ 6 0 7 X 8 [] 9 L1 10 R1 11 L2 12 R2
Set Forced Controller	0x40	Controller ID from <b>Controller enum</b>	Must be > 0 <b>(HARMFULL)</b>
Set Hotkey	0x80	Set the pressed button(s) to be the hot key	Must hold down 1 button the the first row.
<b>Send commands</b>	<b>Command code</b>	<b>parameters</b>	

Send LCD_IMG Report ID 0x14	0x24	None, just raw data.	<b>Dreamcast only</b>
Send button mappings Report ID 0x13	0x02	Byte 0: Future use. Byte 1-24: numerical numbers Byte:25 : 1 indicates a save 0 is a temp mapping	Each byte holds the default mapping for the corresponding HID assignment.  TIP: The command line tool will also understand a button mapping for ps3 and 360
Generic send ( uses send command 0x12)  Send Native Data Uses generic transfer type 1 (PAYLOAD_USE_NATIVE)  Send range Data Uses generic transfer type 2 (PAYLOAD_USE_RANGE)  This is just a way to send an arbitrary amount of data. Can be used for anything. There was no reason to make a new RID for it. So it uses the set RID 0x12	0x25 - denotes generic send	A header is sent first, each of the following packets are additional data. Data has a max of 255. Each packet is 5 bytes of data except the first.  First packet contains the header. 0:Rid=0x12 1:command=0x25 2: header=0 3:size HI byte   (currently second byte 4:size LO byte is   unsupported) 5:use type (PAYLOAD_USE_NATIVE) 6,7( data 0,1)  If size is > 2 another packet must be sent  Second line additional data. 0:Rid=0x12 1:command=0x25 2: position, starts on 2 then goes up by 5. use 0xff (255) for the last transfer packet. i.e. (3,8,13...255) 3-7 for remaining data.	Example 0x12,0x25,0,0,7,1,d1,d2 0x12,0x25,1,d3,d4,d5,d6,d7  Uses 1 native send data to controller natively <b>Supported controllers are n64,gc,psx,DC</b>  See: "Get native response" for fetch data using use 1.  2 n64 range (256 bytes ) Sets the new stick range.  3 per map (GPA only ) Sets up to 16 ID's for custom mapping. (16 * 8 ) 128 bytes


**C# example code can be seen in this sourceforge project**

<https://sourceforge.net/projects/bliss-box-api/>

See BBAPI.cs send command functions

Command line usage - Use the **-help** option You can find the Command line Interface (CLI) from the link above.