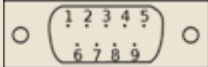


## DFU RS232 PROTOCOL

VERSION 1.0

## CONFIGURATION:

Baud Rate:	38400 (default)	Parity:	None
Data Bits:	8	Stop Bits:	1
Flow Control:	No Handshaking		
Pinout:		2=TXD, 3=RXD, 5=GND	

## STATUS REQUEST:

<b>POWER DEVICE STATUS</b>	<b>[TX] - BB 00 20 02 00 7F A1</b>
<b>OFF</b>	[RX] - BB 00 20 02 02 7F A3
<b>ON</b>	[RX] - BB 00 20 02 03 7F A3
<b>INPUT DEVICE STATUS</b>	<b>[TX] - BB 00 20 02 00 7E A0</b>
<b>HDMI 1</b>	[RX] - 48 44 4D 49 2D 31 0D 0A
<b>HDMI 2</b>	[RX] - 48 44 4D 49 2D 32 0D 0A
<b>HDMI 3</b>	[RX] - 48 44 4D 49 2D 33 0D 0A
<b>COMPONENT</b>	[RX] - 43 4F 4D 50 4F 4E 45 4E 54 0D 0A
<b>DMP</b>	[RX] - 44 4D 50 0D 0A

## COMMANDS:

<b>POWER ON</b>	<b>[TX] - BB 00 1F 01 00 20</b> [RX] - 63 3A 31 46 2D 64 3A 32 30
<b>POWER OFF</b>	<b>[TX] - BB 00 1F 01 01 21</b> [RX] - 63 3A 31 46 2D 64 3A 32 31
<b>VOLUME + / RIGHT</b>	<b>[TX] - BB 00 20 02 00 04 26</b> [RX] - 63 3A 32 30 2D 64 3A 30 34
<b>VOLUME - / LEFT</b>	<b>[TX] - BB 00 20 02 00 00 22</b> [RX] - 63 3A 32 30 2D 64 3A 30 30
<b>BUTTON UP</b>	<b>[TX] - BB 00 20 02 00 01 23</b> [RX] - 63 3A 32 30 2D 64 3A 30 31
<b>BUTTON DOWN</b>	<b>[TX] - BB 00 20 02 00 02 24</b> [RX] - 63 3A 32 30 2D 64 3A 30 32
<b>INPUT COMPONENT</b>	<b>[TX] - BB 00 0B 03 1C 00 03 2D</b> [RX] - 63 3A 30 42 2D 64 3A 32 44
<b>INPUT HDMI 1</b>	<b>[TX] - BB 00 0B 03 1C 00 01 2B</b> [RX] - 63 3A 30 42 2D 64 3A 32 42
<b>INPUT HDMI 2</b>	<b>[TX] - BB 00 0B 03 1C 00 00 2A</b> [RX] - 63 3A 30 42 2D 64 3A 32 41

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INPUT HDMI 3	[TX] - BB 00 0B 03 1C 00 02 2C [RX] - 63 3A 30 42 2D 64 3A 32 43
INPUT DMP	[TX] - BB 00 0B 03 1C 00 07 31 [RX] - 63 3A 30 42 2D 64 3A 33 31
INPUT SELECT	[TX] - BB 00 20 02 00 0B 2D [RX] - 63 3A 32 30 2D 64 3A 30 42
OSD	[TX] - BB 00 20 02 00 05 27 [RX] - 63 3A 32 30 2D 64 3A 30 35
OK / INFO	[TX] - BB 00 20 02 00 03 25 [RX] - 63 3A 32 30 2D 64 3A 30 33
EXIT	[TX] - BB 00 20 02 00 48 6A [RX] - 63 3A 32 30 2D 64 3A 34 38
MUTE	[TX] - BB 00 20 02 00 06 28 [RX] - 63 3A 32 30 2D 64 3A 30 36
SLEEP MODE	[TX] - BB 00 20 02 00 49 6B [RX] - 63 3A 32 30 2D 64 3A 34 39
DIGIT 0	[TX] - BB 00 20 02 00 28 4A [RX] - 63 3A 32 30 2D 64 3A 32 38
DIGIT 1	[TX] - BB 00 20 02 00 21 43 [RX] - 63 3A 32 30 2D 64 3A 32 31
DIGIT 2	[TX] - BB 00 20 02 00 22 44 [RX] - 63 3A 32 30 2D 64 3A 32 32
DIGIT 3	[TX] - BB 00 20 02 00 23 45 [RX] - 63 3A 32 30 2D 64 3A 32 33
DIGIT 4	[TX] - BB 00 20 02 00 25 47 [RX] - 63 3A 32 30 2D 64 3A 32 35
DIGIT 5	[TX] - BB 00 20 02 00 26 48 [RX] - 63 3A 32 30 2D 64 3A 32 36
DIGIT 6	[TX] - BB 00 20 02 00 27 49 [RX] - 63 3A 32 30 2D 64 3A 32 37
DIGIT 7	[TX] - BB 00 20 02 00 29 4B [RX] - 63 3A 32 30 2D 64 3A 32 39
DIGIT 8	[TX] - BB 00 20 02 00 2A 4C [RX] - 63 3A 32 30 2D 64 3A 32 41
DIGIT 9	[TX] - BB 00 20 02 00 2B 4D [RX] - 63 3A 32 30 2D 64 3A 32 42
ASPECT RATIO / TOGGLE	[TX] - BB 00 20 02 00 2E 50 [RX] - 63 3A 32 30 2D 64 3A 32 45
ASPECT RATIO 4:3	[TX] - BB 00 20 02 00 30 52 [RX] - 63 3A 32 30 2D 64 3A 32 47

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**ASPECT RATIO 16:9** [TX] - **BB 00 20 02 00 31 53**  
[RX] - 63 3A 32 30 2D 64 3A 32 48

**ASPECT RATIO ZOOM 1** [TX] - **BB 00 20 02 00 32 54**  
[RX] - 63 3A 32 30 2D 64 3A 32 49

**ASPECT RATIO ZOOM 2** [TX] - **BB 00 20 02 00 33 55**  
[RX] - 63 3A 32 30 2D 64 3A 32 4A