

DDJ-SB

List of MIDI messages ver. 1.00



[MIDI channel assignment]

MIDI channel is defined as shown below.
 0x9* :Note
 0xB* :Control Change (CC)

Channel Category	MIDI Channel	channel No. (hex)
DECK1	1	n=0
DECK2	2	n=1
FX DECK1	5	m=4
FX DECK2	6	m=5
Browser/Global Section	7	m=6
PERFORMANCE PAD (DECK1)	8	p=7
PERFORMANCE PAD (DECK2)	9	p=8
MIDI-OUT communication	12	m=B

¹ As a reference for MIDI assign, MIDI message sent from buttons and knobs of this controller are listed in decimal numbers and English scale. Please utilize this reference depending on the notation of your MIDI compatible software.

NOTE is a term used for MIDI to express that a key of a keyboard or a piano is pressed or your finger is released from it. CC is an abbreviation of "Control Change". Control Change is a kind of MIDI message used to communicate many kinds of control information such as sound quality and volume level. English scale uses alphabetical letters of C, D, E, F, G, A and B as well as # to indicate halftone.

Group	Fig.	User Interface				MIDI assign reference ¹				MIDI-IN (to computer)			MIDI-OUT (from computer)			Note (Data2)
		UI name	+SHIFT	Trigger	Condition (mode)	MIDI Channel (Dec)	NOTE / CC	MIDI Data (Data1)		Status (Hex)	Data 1 (Hex)	Data 2 (Hex)	Status (Hex)	Data 1 (Hex)	Data 2 (Hex)	
DECK	1	PLAY/PAUSE	+SHIFT	press		1/2	NOTE	11	B-1	9n	0B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
	2	CUE	+SHIFT	press		1/2	NOTE	71	B4	9n	47	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
	3	SYNC	+SHIFT	press		1/2	NOTE	12	C0	9n	0C	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
	4	JOG DIAL (Platter)	+SHIFT	rotate	Vinyl On	1/2	NOTE	72	C5	9n	48	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
					Vinyl Off	1/2	NOTE	88	E6	9n	58	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						1/2	CC	34	—	Bn	22	hh		Difference count value from when previous operated		
						1/2	CC	35	—	Bn	23	hh		When turned clockwise: Increases from 65(0x41)		
						1/2	CC	31	—	Bn	1F	hh		When turned counterclockwise: Decreases from 63(0x3F)		
					1/2	NOTE	54	F#3	9n	36	hh		OFF=0(0x00), ON=127(0x7F)			
4	JOG DIAL (Wheel side)	+SHIFT	rotate	Vinyl On	1/2	NOTE	53	F3	9n	35	hh		OFF=0(0x00), ON=127(0x7F)			
				Vinyl Off	1/2	NOTE	103	G7	9n	67	hh		OFF=0x00, ON=0x7F			
5	TEMPO	+SHIFT	slide		1/2	CC	0	—	Bn	00	MSB LSB		Min 0(MSB:0x00 LSB:0x00)–Max 16383(MSB:0x7F LSB:0x7F)			
6	VINYL	+SHIFT	press		1/2	NOTE	23	B0	9n	17	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
7	KEYLOCK	+SHIFT	press		1/2	NOTE	78	F#5	9n	4E	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
8	SHIFT	+SHIFT	press		1/2	NOTE	26	D1	9n	1A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
MIXER	9	CROSSFADER	+SHIFT	slide		7	CC	31	—	B6	1F	MSB LSB		Min 0(MSB:0x00 LSB:0x00)–Max 16383(MSB:0x7F LSB:0x7F)		
	10	CH FADER	+SHIFT	slide	Zero → not Zero	1/2	NOTE	19	—	Bn	13	MSB LSB		left edge: 0, right edge: 16383		
						1/2	CC	51	—	Bn	33	MSB LSB		Min 0(MSB:0x00 LSB:0x00)–Max 16383(MSB:0x7F LSB:0x7F)		
						1/2	CC	51	—	Bn	33	MSB LSB		bottom end: 0, top end: 16383		
					Not Zero → Zero	1/2	NOTE	102	F#7	9n	66	hh		PLAY message only for CH fader start		
						1/2	NOTE	81	A5	9n	51	hh		SYNC message only for CH fader start		
						1/2	NOTE	82	A#5	9n	52	hh		CUE message only for CH fader start		
	11	EQ HIGH		rotate		1/2	CC	7	—	Bn	07	MSB LSB		Min 0(MSB:0x00 LSB:0x00)–Max 16383(MSB:0x7F LSB:0x7F)		
	12	EQ MID		rotate		1/2	CC	39	—	Bn	27	MSB LSB		When turned fully counterclockwise: 0		
	13	EQ LOW		rotate		1/2	CC	11	—	Bn	0B	MSB LSB		When turned fully clockwise: 16383		
	14	FILTER		rotate		1/2	CC	15	—	Bn	0F	MSB LSB		Min 0(MSB:0x00 LSB:0x00)–Max 16383(MSB:0x7F LSB:0x7F)		
					1/2	CC	47	—	Bn	2F	MSB LSB		When turned fully counterclockwise: 0			
15	CUE (Headphone)	+SHIFT	press		7	CC	23	—	B6	17	MSB LSB		When turned fully clockwise: 16383			
16	MASTER LEVEL		rotate		7	CC	24	—	B6	18	MSB LSB		Min 0(MSB:0x00 LSB:0x00)–Max 16383(MSB:0x7F LSB:0x7F)			
17	HEADPHONES MIX		rotate		1/2	NOTE	84	C6	9n	54	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
18	HEADPHONES VOL		rotate		1/2	NOTE	104	G#7	9n	68	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
19	FILTER FADE		press											LED are lit by DDJ-SB		

EFFECT	FX	+SHIFT	press/rotate		5	NOTE	MIDI assign reference		Status	MIDI-IN (to computer)			MIDI-OUT (from computer)			Details (Data2)	
							NOTE / CC	MIDI Data (Data1) (English scale)		Hex	Data 1 (Hex)	Data 2 (Hex)	Hex	Data 1 (Hex)	Data 2 (Hex)		
EFFECT	20	FX1-1 ON	press		5	NOTE	71	B4	94	47	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
				+SHIFT	5	NOTE	99	D#7	94	63	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
	22	FX1-2 ON	press		5	NOTE	72	C5	94	48	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
				+SHIFT	5	NOTE	100	E7	94	64	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
	25	FX1-3 ON	press		5	NOTE	73	C#5	94	49	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
				+SHIFT	5	NOTE	101	F7	94	65	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
	23	FX1-1		rotate	5	CC	2 34	-	B4	02 22	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
		FX1-2		rotate	5	CC	4 36	-	B4	04 24	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
		FX1-3		rotate	5	CC	6 38	-	B4	06 26	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
		FX1 BEATS	+SHIFT	rotate	5	CC	0 32	-	B4	00 20	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
	21	FX2-1 ON	press		6	NOTE	71	B4	95	47	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
				+SHIFT	6	NOTE	99	D#7	95	63	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
	24	FX2-2 ON	press		6	NOTE	72	C5	95	48	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
				+SHIFT	6	NOTE	100	E7	95	64	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
	26	FX2-3 ON	press		6	NOTE	73	C#5	95	49	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
				+SHIFT	6	NOTE	101	F7	95	65	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	LED are lit by DDJ-SB or by MIDI-OUT	
	27	FX2-1		rotate	6	CC	2 34	-	B5	02 22	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
		FX2-2		rotate	6	CC	4 36	-	B5	04 24	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
		FX2-3		rotate	6	CC	6 38	-	B5	06 26	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
		FX2 BEATS	+SHIFT	rotate	6	CC	0 32	-	B5	00 20	MSB LSB	/			Min 0(MSB:0x00 LSB:0x00)-Max 16383(MSB:0x7F LSB:0x7F)	When turned fully counterclockwise: 0	When turned fully clockwise: 16383
BROWSER	27	BROWSE	rotate		7	CC	64	-	B6	40	hh	/			Difference count value from when previous operated Turn clockwise: 1-30(0x01-0x1E) Turn counterclockwise: 127-98(0x7F-0x62)		
				+SHIFT	7	CC	100	-	B6	64	hh	/					
	28	LOAD	press	Deck1	7	NOTE	65	F4	96	41	hh	/			OFF=0(0x00), ON=127(0x7F)		
				Deck2	7	NOTE	71	B4	96	47	hh	/			OFF=0(0x00), ON=127(0x7F)		
	29		press	Deck1	7	NOTE	88	E6	96	58	hh	/			OFF=0(0x00), ON=127(0x7F)		
					7	NOTE	89	F6	96	59	hh	/			OFF=0(0x00), ON=127(0x7F)		
	30	BACK	press		7	NOTE	101	F7	96	65	hh	/			OFF=0(0x00), ON=127(0x7F)		
					7	NOTE	102	F#7	96	66	hh	/			OFF=0(0x00), ON=127(0x7F)		
	PERFORMANCE PADS	31	PERFORMANCE PAD 1	press	in HOT CUE mode	8/9	NOTE	0	C-1	9p	00	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	
					in AUTO LOOP mode	8/9	NOTE	8	G#-1	9p	08	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	
					in MANUAL LOOP mode	8/9	NOTE	16	E0	9p	10	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	
					in SAMPLER mode	8/9	NOTE	24	C1	9p	18	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)	
in HOT CUE 5-8 mode					8/9	NOTE	32	G#1	9p	20	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
in ROLL mode					8/9	NOTE	40	E2	9p	28	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
in HOT LOOP mode					8/9	NOTE	48	C3	9p	30	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
in BANK mode					8/9	NOTE	56	G#3	9p	38	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
in HOT CUE mode					8/9	NOTE	64	E4	9p	40	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
in AUTO LOOP mode					8/9	NOTE	72	C5	9p	48	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
in MANUAL LOOP mode					8/9	NOTE	80	G#5	9p	50	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
in SAMPLER mode					8/9	NOTE	88	E6	9p	58	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)		
32	PERFORMANCE PAD 2	press	in HOT CUE mode	8/9	NOTE	1	C#-1	9p	01	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in AUTO LOOP mode	8/9	NOTE	9	A-1	9p	09	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in MANUAL LOOP mode	8/9	NOTE	17	F0	9p	11	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in SAMPLER mode	8/9	NOTE	25	C#1	9p	19	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT CUE 5-8 mode	8/9	NOTE	33	A1	9p	21	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in ROLL mode	8/9	NOTE	41	F2	9p	29	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT LOOP mode	8/9	NOTE	49	C#3	9p	31	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in BANK mode	8/9	NOTE	57	A3	9p	39	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT CUE mode	8/9	NOTE	65	F4	9p	41	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in AUTO LOOP mode	8/9	NOTE	73	C#5	9p	49	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in MANUAL LOOP mode	8/9	NOTE	81	A5	9p	51	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in SAMPLER mode	8/9	NOTE	89	F6	9p	59	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
33	PERFORMANCE PAD 3	press	in HOT CUE mode	8/9	NOTE	2	D-1	9p	02	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in AUTO LOOP mode	8/9	NOTE	10	A#-1	9p	0A	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in MANUAL LOOP mode	8/9	NOTE	18	F#0	9p	12	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in SAMPLER mode	8/9	NOTE	26	D1	9p	1A	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT CUE 5-8 mode	8/9	NOTE	34	A#1	9p	22	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in ROLL mode	8/9	NOTE	42	F#2	9p	2A	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT LOOP mode	8/9	NOTE	50	D3	9p	32	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in BANK mode	8/9	NOTE	58	A#3	9p	3A	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT CUE mode	8/9	NOTE	66	F#4	9p	42	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in AUTO LOOP mode	8/9	NOTE	74	D5	9p	4A	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in MANUAL LOOP mode	8/9	NOTE	81	A#5	9p	52	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in SAMPLER mode	8/9	NOTE	90	F#6	9p	5A	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
34	PERFORMANCE PAD 4	press	in HOT CUE mode	8/9	NOTE	3	D#-1	9p	03	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in AUTO LOOP mode	8/9	NOTE	11	B-1	9p	0B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in MANUAL LOOP mode	8/9	NOTE	19	G0	9p	13	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in SAMPLER mode	8/9	NOTE	27	D#1	9p	1B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT CUE 5-8 mode	8/9	NOTE	35	B1	9p	23	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in ROLL mode	8/9	NOTE	43	G2	9p	2B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT LOOP mode	8/9	NOTE	51	D#3	9p	33	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in BANK mode	8/9	NOTE	59	B3	9p	3B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in HOT CUE mode	8/9	NOTE	67	G4	9p	43	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in AUTO LOOP mode	8/9	NOTE	75	D#5	9p	4B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in MANUAL LOOP mode	8/9	NOTE	83	B5	9p	53	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
			in SAMPLER mode	8/9	NOTE	91	G6	9p	5B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)			
35	HOT CUE mode	press	1/2	NOTE	27	D#1	9n	1B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)				
36	AUTO LOOP mode	press	1/2	NOTE	105	A7	9n	69	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)				
37	MANUAL LOOP mode	press	1/2	NOTE	30	F#1	9n	1E	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)				
38	SAMPLER mode	press	1/2	NOTE	107	B7	9n	6B	hh	← Same as MIDI-IN			OFF=0(0x00), ON=127(0x7F)				

MIDI-OUT		MIDI assign reference				MIDI-IN (to computer)			MIDI-OUT (from computer)			Details (Data2)
Group	Communication name	MIDI Channel (Dec)	NOTE / CC	MIDI Data (Data1) (English scale)	Status (Hex)	Data 1 (Hex)	Data 2 (Hex)	Status (Hex)	Data 1 (Hex)	Data 2 (Hex)		
Other	DJ App. Connect	12	NOTE	9	A-1			9B	09	hh	connected = 0x00-0x7F (any value)	