K.ON – detailed MIDI data chart

FUNCTION	MIDI INFORMATION		DESCRIPTIONS
KEYBOARD	USB	09 9n xx yy 08 8n xx yy	Note ON/OFF Info n:current channel (0-15)
	MIDI	9n xx yy 8n xx yy	xx :key number (0-127) yy: the force value (0-127) 2 channels info is sent when Dual is on
PROGRAM	USB	0C Cn xx 00	Voice change info; n: current channel num. (0-15)
	MIDI	Cn xx	xx is the voice num. (0-127)
CHANNEL	USB	0B Bm 7B 00 0B Bn 7B 00 0B Bm aa 00 0B Bn aa 00 0B Bm bb 00 0B Bn bb 00	All notes off info; pedal off info m: channel num.prior to change (0-15), n: channel num. After change (0-15) aa:pedal a controller num. (0-127) bb:pedal b controller num. (0-127)
	MIDI	Bm 7B 00 Bn 7B 00 Bm aa 00 Bn aa 00 Bm bb 00 Bn bb 00	
TRANSPOSE	USB	0B Bm 7B 00 0B Bn 7B 00	All notes off Info; m: channel num. prior to change (0-15), n: channel num. after change
	MIDI	Bm 7B 00 Bn 7B 00	(0-15)
OCTAVE	USB	0B Bm 7B 00 0B Bn 7B 00	All notes off info; M: channel num. Prior tochange (0-15), n: channel num. after change
	MIDI	Bm 7B 00 Bn 7B 00	(0-15)
TOUCH	USB	0D Dn xx	Channel after touch info;
	MIDI	Dn xx	n channel num. prior to change (0-15), xx: after touch intensity value (0-127)
CONFIGURE	USB	0B Bm 7B 00 0B Bn 7B 00 0B Bm aa 00 0B Bn aa 00 0B Bm bb 00 0B Bn bb 00	All notes off info; pedal off info; m: channel num. prior to change (0-15), n: channel num. after change (0-15) aa: pedal a controller num. (0-127) bb: pedal b controller num. (0-127)
	MIDI	Bm 7B 00 Bn 7B 00 Bm aa 00 Bn aa 00 Bm bb 00 Bn bb 00	
8 CONTROLLER KNOBS	USB	0B Bn xx yy	controller info; n:current channel num. (0-15), xx:controller num. (0-127), yy:control
	MIDI	Bn xx yy	value (0-127)
8 CONTROLLER FADERS(GROUP 1,2)	USB	0B Bn 07 yy	volume control info; n:channel num. (0-15), yy:volume value (0-127)
	MIDI	Bn 07 yy	
8 CONTROLLER FADERS (GROUP 3)	USB	0B Bn xx yy	controller info; n:current channel num. (0-15), xx:controller num. (0-127), yy:control
	MIDI	Bn xx yy	value (0-127)
MASTER VOLUME FADER	USB	0B B0 71 xx 04 f0 7f 7f 04 04 01 00 06 xx f7 00	controller info; master volume system info; xx:master volume value
	MIDI	Bn 71 xx F0 7f 7f 04 01 00 xx f7	
RESET	USB	04 f0 7e 7f 07 09 01f7	System reset system info;
	MIDI	f0 7e 7f 09 01 f7	
ALL NOTE OFF	USB	0B B0 7B 00 ...... 0B BF 7B 00	All notes off info; From channle 0 to channel 15
	MIDI	B0 7B 00 ...... BF 7B 00	
GM ON	USB	04 F0 7E 7F 07 09 01 F7	GM initialization info
	MIDI	F0 7E 7F 09 01 F7	
XG ON	USB	04 F0 43 10 04 4C 00 00 07 7E 00 F7	XG initialization info
	MIDI	F0 43 10 4C 00 00 7E 00 F7	
GS ON	USB	04 F0 41 10 04 42 12 40 04 00 7F 00 06 41 F7 00	GS initialization info
	MIDI	F0 41 10 42 12 40 00 7F 00 41 F7	
PEDAL	USB	0B Bn xx yy	Controller info; N:current channel num. (0-15), xx:controller num. (0-127), yy:control
	MIDI	Bn xx yy	value (0-127)
PITCH (used as pitch)	USB	0E En xx yy	Pitch bend info; N:current channel num. (0-15), xx, yy:control value (0-127)
	MIDI	En xx yy	
PITCH(used as general controller	USB	0B Bn xx yy	Controller info; N:current channel num. (0-15), xx:controller num (0-127), yy:control
	MIDI	Bn xx yy	value (0-127)
MODULATION	USB	0B Bn xx yy	Controller info; N:current channel info (0-15), xx:controller num. (0-127), yy:control
	MIDI	Bn xx yy	value (0-127) Xx is 0 when used as modulation knob

◄◄ (⏮)	USB	0B B0 72 7f 0B B0 76 7f 0F FC 00 00	Controller info; System real info (stop)
	MIDI	B0 72 7f B0 76 7f FC	
◄◄	USB	0B B0 73 7f	Controller info;
	MIDI	B0 72 7f	
	USB	0B B0 74 7f	Controller info;
	MIDI	B0 74 7f	
►► ●	USB	0B B0 75 7f 0F FB 00 00 0F F8 00 00	Controller info; System real info (start, timer)
	MIDI	B0 75 7f FB F8	
■	USB	0B B0 76 7f 0F FC 00 00	Controller info; System real time info (stop)
	MIDI	B0 76 7f FC	
►	USB	0B B0 77 7f 0F FB 00 00 0F F8 00 00	Controller info; System real info (start, timer)
	MIDI	B0 77 7f FB F8	
Load	USB	0B Bm 7B 00 0B Bn 7B 00 0B Bm aa 00 0B Bn aa 00 0B Bm bb 00 0B Bn bb 00 0B Bn xx yy 0B Bn 07 yy 0B B0 71 yy 04 f0 7f 7f 04 04 01 00 06 yy f7 00 0C Cn tt 00	All notes off info; Pedal off info; Controller info of all knobs and faders; Voice change info; M:channel num. prior to change (0-15), n:channel num. after change (0-15) aa:pedal a controller num. (0-127) bb:pedal b controller num. (0-127) xx:controller num. of some of the knobs and faders on the panel; yy:control value of each controller tt:voice num.
	MIDI	Bm 7B 00 Bn 7B 00 Bm aa 00 Bn aa 00 Bm bb 00 Bn bb 00 Bn xx yy Bn 07 yy B0 71 yy f0 7f 7f 04 01 00 yy f7 Cn tt 00	
SEU	USB	REC key info+ 04 f0 32 02 04 a1 a2 a3 04 a4 a5 a6 04 a7 a8 b1 04 b2 b3 b4 04 b5 b6 b7 04 b8 03 c1 04 c2 c3 d1 04 d2 d3 d4 04 d5 d6 d7 04 d8 e1 e2 04 e3 e4 e5 04 e6 e7 e8 04 e9 n1 n2 04 n3 n4 n5 04 n6 n7 n8 04 n9 m1 m2 04 m3 m4 m5 04 m6 m7 m8 04 m9 p1 p2 04 p3 p4 p5 04 p6 p7 p8 04 p9 s1 s2 04 ct tt rt 04 ot ut i1 04 i2 v1 v2 05 f7 00 00 +stop key info	Send record info after pressing the REC key, restart system info; send stop key info after system info 1、 a1—a8: controller num set by user (aiming at 8 knobs); 2、 b1—b8: controller num. set by user (aiming at 8 knobs); 3、 c1+c2: controller num. of PITCH; 4、 c3: controller num. of MODULATION; 5、 d1—d8: controller's controlling value set by user (aiming at 8 knobs); 6、 e1—e8: controller's controlling value set by user (aiming at 8 knobs) 7、 e9, n9, m9: controlling value of master's volume; 8、 n1—n7: system preset controller's controlling value (aiming at 8 knobs); 9、 n8+n9: Tempo velocity value; 10、 m1—m7: volume of channel 1-8; 11、 p1—p7: volume of channel 9-16; 12、 s1: pedal a controller num.; 13、 s2: pedal b controller num.; 14、 ct: channel num.; 15、 tt: voice num.; 16、 rt: transpose parameter; 17、 ot: octave parameter; 18、 ut: velocity curve num.; 19、 i1+i2: keyboard split point; 20、 v1+v2: keyboard relavant parameter;
	MIDI	REC info+ f0 32 02 a1 a2 a3 a4 a5 a6 a7 a8 b1 b2 b3 b4 b5 b6 b7 b8 03 c1 c2 c3 d1 d2 d3 d4 d5 d6 d7 d8 e1 e2 e3 e4 e5 e6 e7 e8 e9 n1 n2 n3 n4 n5 n6 n7 n8 n9 m1 m2 m3 m4 m5 m6 m7 m8 m9 p1 p2 p3 p4 p5 p6 p7 p8 p9 s1 s2 ct tt rt ot ut i1 i2 v1 v2 f7 +Stop key info	
SED	Play +Stop+Load info		