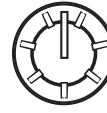
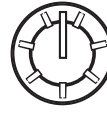
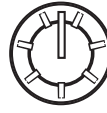
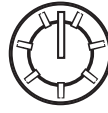
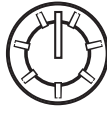
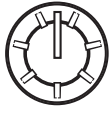


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	E9	E10	E11	E12	E13	E14	E15	E16
	MIDI data type select	MIDI send Channel	Parameter	Value 1	Value 2	Controller mode	Controller option	Display indication
Program Change	Continuous elements (encoders, Pitch Bend, Mod wheel, volume fader, expression pedal)							
	1-16, 0 (0= global)	Bank Select MSB: Off, 0 - 127	Bank Select LSB: Off, 0 - 127	Fixed Program Change Number: Off, 0 - 127	-	-	Value indication: On/Off	
	Switch elements (buttons, sustain pedal)							
	1-16, 0 (0= global)	Bank Select MSB: Off, 0 - 127	Bank Select LSB: Off, 0 - 127	Fixed Program Change Number: Off, 0 - 127	Increment (Inc), Single preset assign (PrS)	In case of 'Increment' steps: -127...+127	Value indication: On/Off	

Table A.1: Rotary knob assignment for Program Change messages

CC Control Change	Continuous elements (encoders, Pitch Bend, Mod wheel, volume fader, expression pedal)							
	1-16, 0 (0= global)	CC 0-127	Min. value: 0-127	Max. value: 0-127	-	-	Value indication: On/Off	
	Switch elements (buttons, sustain pedal)							
	1-16, 0 (0= global)	CC 0-127	On-Value: 0-127	Off-Value: Off, 0-127	Toggle On Toggle Off Increment	In case of 'Increment' steps: -127...+127	Value indication: On/Off	
CC TRIGGER (CC commands by key triggering)	Keyboard							
	1-16, 0 (0= global)	CC 0-127	0-127 (fixed), VEL*	-	Toggle On Toggle Off	Reset to normal keyboard operation	Value indication: On/Off	
	* Velocity dependent, based on Velocity Curve							

Table A.2: Rotary knob assignment for Controller messages

NRPN	Continuous elements (encoders, Pitch Bend, Mod wheel, volume fader, expression pedal)							
	1-16, 0 (0= global)	NRPN Parameter Number	Min. value: 0-127	Max. value: 0-127	-	-	Value indication: On/Off	
	Switch elements (buttons, sustain pedal)							
	1-16, 0 (0= global)	NRPN Parameter Number	On-Value: 0-127	Off-Value: Off, 0-127	Toggle On Toggle Off Increment	In case of 'Increment' steps: -127...+127	Value indication: On/Off	

Table A.3: Rotary knob assignment for NRPN messages

NOTE (Nnt) (MIDI notes on buttons)	Switch elements (buttons, sustain pedal)							
	1-16, 0 (0= global)	MIDI Note Number: 0-127	Fixed Value 0-127	-	Toggle On Toggle Off	Reset to normal keyboard operation	Value indication: On/Off	
NOTE TRIGGER (Ncc) (MIDI notes by key triggering)	Keyboard							
	1-16, 0 (0= global)	MIDI Note Number: 0-127	Fixed (0-127), VEL*	-	Toggle On Toggle Off	Reset to normal keyboard operation	Value indication: On/Off	
	* Velocity dependent, based on Velocity Curve							

Table A.4: Rotary knob assignment for Note messages

Pitch Bend	Continuous elements (encoders, Pitch Bend, Mod wheel, volume fader, expression pedal)							
	1-16, 0 (0= global)	-	Range 0-127	-	-	-	Value indication: On/Off	

Table A.5: Rotary knob assignment for Pitch Bend messages

After Touch	Continuous elements (encoders, Pitch Bend, Mod wheel, volume fader, expression pedal)							
	1-16, 0 (0= global)	0-127, All*	Min. value: 0-127	Max. value: 0-127	-	-	Value indication: On/Off	
	Switch elements (buttons, sustain pedal)							
	1-16, 0 (0= global)	0-127, All*	On-Value: 0-127	Off-Value: Off, 0-127	Toggle On Toggle Off Increment	In case of 'Increment' steps: -127...+127	Value indication: On/Off	
* All = Channel Aftertouch								

Table A.6: Rotary knob assignment for After Touch messages

MMC MIDI Machine Control	Switch elements (buttons, sustain pedal)							
	Device number: 0-126, ALL	All needed commands are pre-selected, if "MMC" button pressed!						

Table A.7: Rotary knob assignment for MMC messages

GS/XG	Continuous elements (encoders, Pitch Bend, Mod wheel, volume fader, expression pedal)							
	1-16, 0 (0= global)	Select with text indication*	Min. value: 0-127	Max. value: 0-127	-	-	Value indication: On/Off	
	Switch elements (buttons, sustain pedal)							
	1-16, 0 (0= global)	Select with text indication*	On-Value: 0-127	Off-value: Off, 0-127	Toggle On Toggle Off	-	Value indication: On/Off	
* For parameter names, see Tab. 7.1 in manual								

Table A.8: Rotary knob assignment for GS/XG parameters

Note Trigger	Keyboard							
	1-16, 0 (0= global)	MIDI Note Number: 0-127	Velocity value: 0-127 (fixed) or VEL*	-	Toggle On Toggle Off	Reset to normal keyboard operation	Value indication: On/Off	
CC Trigger		CC 0-127	VEL*					
* Velocity dependent, based on Velocity Curve								

Table A.9: Rotary knob assignment for Key CC and Note trigger

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Standard MIDI Controller (CC) Numbers			
00	Bank Select	32	Bank Select LSB
01	Modulation	33	Modulation LSB
02	Breath Controller	34	Breath Controller LSB
03	Controller 3 (undefined)	35	Controller 35 (undefined)
04	Foot Controller	36	Foot Controller LSB
05	Portamento Time	37	Portamento Time LSB
06	Data Entry MSB	38	Data Entry LSB
07	Channel Volume (formerly Main Volume)	39	Channel Volume LSB (formerly Main Volume)
08	Balance	40	Balance LSB
09	Controller 9 (undefined)	41	Controller 41 (undefined)
10	Pan	42	Pan LSB
11	Expression	43	Expression LSB
12	Effect Control 1	44	Effect Control 1 LSB
13	Effect Control 2	45	Effect Control 2 LSB
14	Controller 14 (undefined)	46	Controller 46 (undefined)
15	Controller 15 (undefined)	47	Controller 47 (undefined)
16	General Purpose 1	48	General Purpose 1 LSB
17	General Purpose 2	49	General Purpose 2 LSB
18	General Purpose 3	50	General Purpose 3 LSB
19	General Purpose 4	51	General Purpose 4 LSB
20	Controller 20 (undefined)	52	Controller 52 (undefined)
21	Controller 21 (undefined)	53	Controller 53 (undefined)
22	Controller 22 (undefined)	54	Controller 54 (undefined)
23	Controller 23 (undefined)	55	Controller 55 (undefined)
24	Controller 24 (undefined)	56	Controller 56 (undefined)
25	Controller 25 (undefined)	57	Controller 57 (undefined)
26	Controller 26 (undefined)	58	Controller 58 (undefined)
27	Controller 27 (undefined)	59	Controller 59 (undefined)
28	Controller 28 (undefined)	60	Controller 60 (undefined)
29	Controller 29 (undefined)	61	Controller 61 (undefined)
30	Controller 30 (undefined)	62	Controller 62 (undefined)
31	Controller 31 (undefined)	63	Controller 63 (undefined)
64	Damper Pedal (Sustain)	65	Portamento On/Off
66	Sostenuto On/Off	67	Soft Pedal On/Off
68	Legato Footswitch	69	Hold 2
70	Sound Controller 1 (Sound Variation)	71	Sound Controller 2 (Resonance/Timbre)
72	Sound Controller 3 (Release Time)	73	Sound Controller 4 (Attack Time)
74	Sound Controller 5 (Cutoff Frequency/Brightness)	75	Sound Controller 6 (Decay Time)
76	Sound Controller 7 (Vibrato Rate)	77	Sound Controller 8 (Vibrato Depth)
78	Sound Controller 9 (Vibrato Delay)	79	Sound Controller 10 (undefined)
80	General Purpose 5	81	General Purpose 6
82	General Purpose 7	83	General Purpose 8
84	Portamento Control	85	Controller 85 (undefined)
86	Controller 86 (undefined)	87	Controller 87 (undefined)
88	Controller 88 (undefined)	89	Controller 89 (undefined)
90	Controller 90 (undefined)	91	Effects 1 Depth (Reverb)
92	Effects 2 Depth (Tremolo)	93	Effects 3 Depth (Chorus)
94	Effects 4 Depth (Celeste/Detune)	95	Effects 5 Depth (Phaser)
96	Data Entry +1 (Increment)	97	Data Entry -1 (Decrement)
98	NRPN LSB	99	NRPN MSB
100	RPN LSB	101	RPN MSB
102	Controller 102 (undefined)	103	Controller 103 (undefined)
104	Controller 104 (undefined)	105	Controller 105 (undefined)
106	Controller 106 (undefined)	107	Controller 107 (undefined)
108	Controller 108 (undefined)	109	Controller 109 (undefined)
110	Controller 110 (undefined)	111	Controller 111 (undefined)
112	Controller 112 (undefined)	113	Controller 113 (undefined)
114	Controller 114 (undefined)	115	Controller 115 (undefined)
116	Controller 116 (undefined)	117	Controller 117 (undefined)
118	Controller 118 (undefined)	119	Controller 119 (undefined)
120	All Sound Off	121	Reset All Controllers
122	Local Control On/Off	123	All Notes Off
124	Omni Mode Off	125	Omni Mode On
126	Poly Mode Off/ Mono Mode On	127	Poly Mode On/ Mono Mode Off

Table A.10: Standard MIDI controller overview

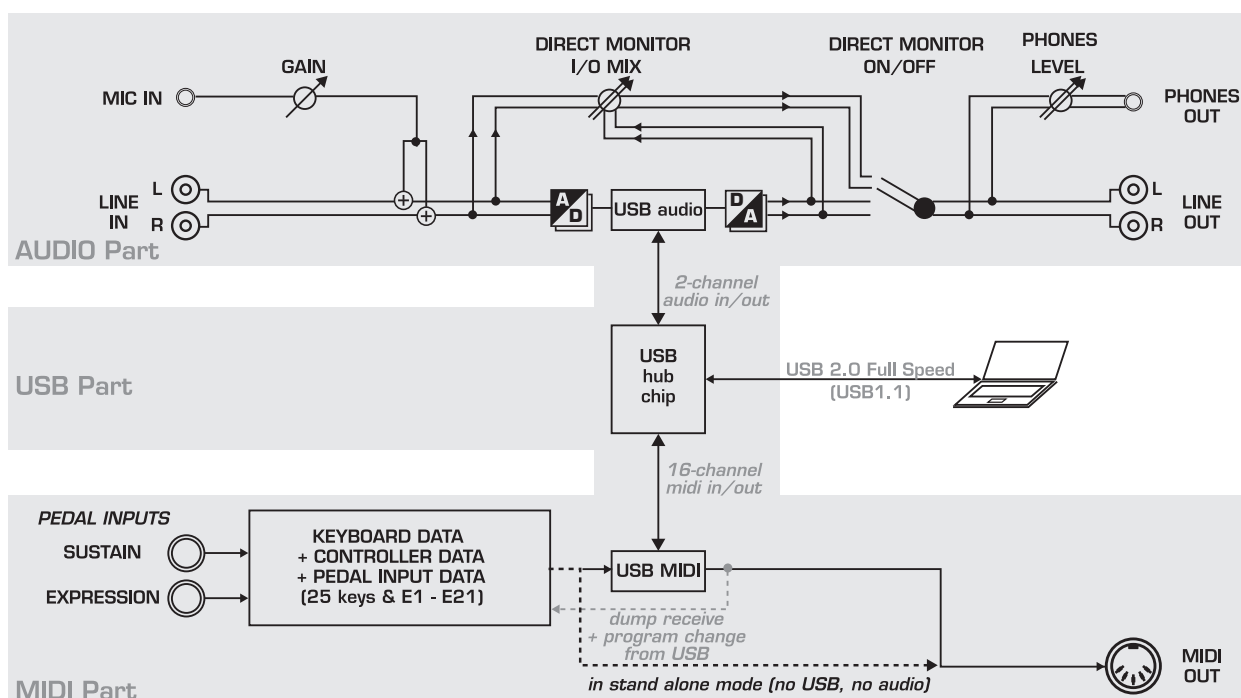


Fig. A.1: Block diagram of audio and MIDI functions