

Technical specifications

Audio

Sampling rate

16-bit / 44.1KHz

THD + N (Total Harmonic Distortion + Noise)

- Line Outputs (1/8",RCA) > -80dB (A-weighted)
- Headphone Output (1/8",1/4") > -80 dB (A-weighted)

Maximum Output level

Channel 1-2 (1/8" stereo jack, and ,RCA) + 6 dBu into > 1k Ω

Channel 3-4 (Headphone 1/8" stereo jack) + 4 dBu into > 32 Ω

Mechanical

Weight

4.2 lbs = 1.9 Kg

Dimensions (W x D x H):

17,9" x 10" = 45,5 x 25,6 cm

Controls

Transport buttons 34

Pads 8

Rotary potentiometers 8

Faders 5

Jog wheels 2

Air Control with 6 level leds 1

Browsing Encoder 1

Beat Leds 8

Midi Messages

The Midi Streaming device has an input and an output data stream to communicate control and status changes to midi-capable software.

Midi Input

Midi Control	Midi Message	Message Type	Value Description
FX_KP1_DA	9x 01 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP2_DA	9x 02 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP3_DA	9x 03 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP4_DA	9x 04 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP5_DA	9x 05 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP6_DA	9x 06 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP7_DA	9x 07 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP8_DA	9x 08 Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP1_DA	9x 09 Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP2_DA	9x 0A Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP3_DA	9x 0B Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP4_DA	9x 0C Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP5_DA	9x 0D Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP6_DA	9x 0E Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP7_DA	9x 0F Value	Button-Toggling Output	"7F": Pressed – "00": Released
SH_FX_KP8_DA	9x 10 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Play_DA	9x 11 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Cue_DA	9x 12 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Sync_DA	9x 13 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Shift_DA	9x 14 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Bank1_DA	9x 15 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Bank2_DA	9x 16 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Filter_DA	9x 17 Value	Button-Toggling Output	"7F": Pressed – "00": Released
HotCue_Sam_DA	9x 18 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Listen_DA	9x 19 Value	Button-Toggling Output	"7F": Pressed – "00": Released
Load_DA	9x 1A Value	Button-Toggling Output	"7F": Pressed – "00": Released
Touch_DA	9x 1B Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP1_DB	9x 1C Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP2_DB	9x 1D Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP3_DB	9x 1E Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP4_DB	9x 1F Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP5_DB	9x 20 Value	Button-Toggling Output	"7F": Pressed – "00": Released
FX_KP6_DB	9x 21 Value	Button-Toggling Output	"7F": Pressed – "00": Released

FX_KP7_DB	9x 22 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
FX_KP8_DB	9x 23 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP1_DB	9x 24 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP2_DB	9x 25 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP3_DB	9x 26 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP4_DB	9x 27 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP5_DB	9x 28 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP6_DB	9x 29 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP7_DB	9x 2A Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SH_FX_KP8_DB	9x 2B Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Play_DB	9x 2C Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Cue_DB	9x 2D Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Sync_DB	9x 2E Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Shift_DB	9x 2F Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Bank1_DB	9x 30 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Bank2_DB	9x 31 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Filter_DB	9x 32 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
HotCue_Sam_DB	9x 33 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Listen_DB	9x 34 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Load_DB	9x 35 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Touch_DB	9x 36 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
HP_CUE	9x 37 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
HP_MIX	9x 38 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Vinyl	9x 39 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Mic	9x 40 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Record	9x 41 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Magic	9x 42 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
Browse	9x 43 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
HC_1_DA	9x 44 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
HC_2_DA	9x 45 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
HC_3_DA	9x 46 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
HC_4_DA	9x 47 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_1_DA	9x 48 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_2_DA	9x 49 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_3_DA	9x 4A Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_4_DA	9x 4B Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
HC_1_DB	9x 4C Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
HC_2_DB	9x 4D Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
HC_3_DB	9x 4E Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
HC_4_DB	9x 4F Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_1_DB	9x 50 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_2_DB	9x 51 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_3_DB	9x 52 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity
SAM_4_DB	9x 53 Value	Button-Velocity	00 > 7F : Slow to Fast Velocity

Shift_State_DA	9x 54 Value	Status	"7F" : Mode On – "00" : Mode Off
Bank_State_DA	9x 55 Value	Status	"7F" : Bank2 – "00" : Bank1
HotCue_State_DA	9x 56 Value	Status	"7F" : Sample – "00" : HotCue
Shift_State_DB	9x 57 Value	Status	"7F" : Mode On – "00" : Mode Off
Bank_State_DB	9x 58 Value	Status	"7F" : Bank2 – "00" : Bank1
HotCue_State_DB	9x 59 Value	Status	"7F" : Sample – "00" : HotCue
XFader	Bx 01 Value	Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
Vol_DA	Bx 02 Value	Analog – Coarse (128 values)	00 > 7F : Full Down > Full Up
Pitch_DA	Bx 04 Value	Analog – Coarse (128 values)	00 > 7F : Full Down > Full Up
Treb_DA	Bx 05 Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
Med_DA	Bx 06 Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
Bass_DA	Bx 07 Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
Gain_DA	Bx 08 Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
Vol_DB	Bx 09 Value	Analog – Coarse (128 values)	00 > 7F : Full Down > Full Up
Pitch_DB	Bx 0A Value	Analog – Coarse (128 values)	00 > 7F : Full Down > Full Up
Treb_DB	Bx 0B Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
Med_DB	Bx 0C Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
Bass_DB	Bx 0D Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
Gain_DB	Bx 0E Value	Analog – Coarse (128 values)	00 > 7F : Full CW : Full CCW
AirControl	Bx 0F Value	Analog – Coarse (128 values)	00 > 7F : Out of Range CW : Lowest
XFader_LSB	Bx 21 Value	Analog – Coarse (128 values)	LSByte of associated data
Vol_DA_LSB	Bx 22 Value	Analog – Coarse (128 values)	LSByte of associated data
Pitch_DA_LSB	Bx 24 Value	Analog – Coarse (128 values)	LSByte of associated data
Treb_DA_LSB	Bx 25 Value	Analog – Coarse (128 values)	LSByte of associated data
Med_DA_LSB	Bx 26 Value	Analog – Coarse (128 values)	LSByte of associated data
Bass_DA_LSB	Bx 27 Value	Analog – Coarse (128 values)	LSByte of associated data
Gain_DA_LSB	Bx 28 Value	Analog – Coarse (128 values)	LSByte of associated data
Vol_DB_LSB	Bx 29 Value	Analog – Coarse (128 values)	LSByte of associated data
Pitch_DB_LSB	Bx 2A Value	Analog – Coarse (128 values)	LSByte of associated data
Treb_DB_LSB	Bx 2B Value	Analog – Coarse (128 values)	LSByte of associated data
Med_DB_LSB	Bx 2C Value	Analog – Coarse (128 values)	LSByte of associated data
Bass_DB_LSB	Bx 2D Value	Analog – Coarse (128 values)	LSByte of associated data
Gain_DB_LSB	Bx 2E Value	Analog – Coarse (128 values)	LSByte of associated data
SH_HC_1_DA	Bx 44 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_HC_2_DA	Bx 45 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_HC_3_DA	Bx 46 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_HC_4_DA	Bx 47 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure

SH_SAM_1_DA	Bx 48 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_SAM_2_DA	Bx 49 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_SAM_3_DA	Bx 4A Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_SAM_4_DA	Bx 4B Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_HC_1_DB	Bx 4C Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_HC_2_DB	Bx 4D Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_HC_3_DB	Bx 4E Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_HC_4_DB	Bx 4F Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_SAM_1_DB	Bx 50 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_SAM_2_DB	Bx 51 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_SAM_3_DB	Bx 52 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
SH_SAM_4_DB	Bx 53 Value	Analog – Coarse (128 values)	00 > 7F : No Pressure : Full Pressure
JOG_DA	Bx 66 Value	Incremental – Coarse (128 values)	7F > 40 : CCW Slow>Fast – 01 > 3F : CW Slow>Fast
JOG_DB	Bx 67 Value	Incremental – Coarse (128 values)	7F > 40 : CCW Slow>Fast – 01 > 3F : CW Slow>Fast
JOG_Scratch_DA	Bx 68 Value	Incremental – Coarse (128 values)	7F > 40 : CCW Slow>Fast – 01 > 3F : CW Slow>Fast
JOG_Scratch_DB	Bx 69 Value	Incremental – Coarse (128 values)	7F > 40 : CCW Slow>Fast – 01 > 3F : CW Slow>Fast
Browse	Bx 6A Value	Incremental – Coarse (128 values)	7F > 40 : CCW Slow>Fast – 01 > 3F : CW Slow>Fast

Midi Output

Midi Control	Midi Message	Value Description
FX_KP1_DA	9x 01 Value	00 : OFF – 7F: ON
FX_KP2_DA	9x 02 Value	00 : OFF – 7F: ON
FX_KP3_DA	9x 03 Value	00 : OFF – 7F: ON
FX_KP4_DA	9x 04 Value	00 : OFF – 7F: ON
FX_KP5_DA	9x 05 Value	00 : OFF – 7F: ON
FX_KP6_DA	9x 06 Value	00 : OFF – 7F: ON
FX_KP7_DA	9x 07 Value	00 : OFF – 7F: ON
FX_KP8_DA	9x 08 Value	00 : OFF – 7F: ON
SH_FX_KP1_DA	9x 09 Value	00 : OFF – 7F: ON
SH_FX_KP2_DA	9x 0A Value	00 : OFF – 7F: ON
SH_FX_KP3_DA	9x 0B Value	00 : OFF – 7F: ON
SH_FX_KP4_DA	9x 0C Value	00 : OFF – 7F: ON
SH_FX_KP5_DA	9x 0D Value	00 : OFF – 7F: ON
SH_FX_KP6_DA	9x 0E Value	00 : OFF – 7F: ON
SH_FX_KP7_DA	9x 0F Value	00 : OFF – 7F: ON
SH_FX_KP8_DA	9x 10 Value	00 : OFF – 7F: ON
Play_DA	9x 11 Value	00 : OFF – 7F: ON
Cue_DA	9x 12 Value	00 : OFF – 7F: ON
Sync_DA	9x 13 Value	00 : OFF – 7F: ON
Filter_DA	9x 17 Value	00 : OFF – 7F: ON
Listen_DA	9x 19 Value	00 : OFF – 7F: ON
FX_KP1_DB	9x 1C Value	00 : OFF – 7F: ON
FX_KP2_DB	9x 1D Value	00 : OFF – 7F: ON
FX_KP3_DB	9x 1E Value	00 : OFF – 7F: ON
FX_KP4_DB	9x 1F Value	00 : OFF – 7F: ON
FX_KP5_DB	9x 20 Value	00 : OFF – 7F: ON
FX_KP6_DB	9x 21 Value	00 : OFF – 7F: ON
FX_KP7_DB	9x 22 Value	00 : OFF – 7F: ON
FX_KP8_DB	9x 23 Value	00 : OFF – 7F: ON
SH_FX_KP1_DB	9x 24 Value	00 : OFF – 7F: ON
SH_FX_KP2_DB	9x 25 Value	00 : OFF – 7F: ON
SH_FX_KP3_DB	9x 26 Value	00 : OFF – 7F: ON
SH_FX_KP4_DB	9x 27 Value	00 : OFF – 7F: ON
SH_FX_KP5_DB	9x 28 Value	00 : OFF – 7F: ON
SH_FX_KP6_DB	9x 29 Value	00 : OFF – 7F: ON
SH_FX_KP7_DB	9x 2A Value	00 : OFF – 7F: ON
SH_FX_KP8_DB	9x 2B Value	00 : OFF – 7F: ON

Play_DB	9x 2C Value	00 : OFF – 7F: ON
Cue_DB	9x 2D Value	00 : OFF – 7F: ON
Sync_DB	9x 2E Value	00 : OFF – 7F: ON
Filter_DB	9x 32 Value	00 : OFF – 7F: ON
Listen_DB	9x 34 Value	00 : OFF – 7F: ON
HP_CUE	9x 37 Value	00 : OFF – 7F: ON
HP_MIX	9x 38 Value	00 : OFF – 7F: ON
Vinyl	9x 39 Value	00 : OFF – 7F: ON
Mic	9x 40 Value	00 : OFF – 7F: ON
Record	9x 41 Value	00 : OFF – 7F: ON
Magic	9x 42 Value	00 : OFF – 7F: ON
HC_1_DA	9x 44 Value	00 : OFF – 7F: ON
HC_2_DA	9x 45 Value	00 : OFF – 7F: ON
HC_3_DA	9x 46 Value	00 : OFF – 7F: ON
HC_4_DA	9x 47 Value	00 : OFF – 7F: ON
SAM_1_DA	9x 48 Value	00 : OFF – 7F: ON
SAM_2_DA	9x 49 Value	00 : OFF – 7F: ON
SAM_3_DA	9x 4A Value	00 : OFF – 7F: ON
SAM_4_DA	9x 4B Value	00 : OFF – 7F: ON
HC_1_DB	9x 4C Value	00 : OFF – 7F: ON
HC_2_DB	9x 4D Value	00 : OFF – 7F: ON
HC_3_DB	9x 4E Value	00 : OFF – 7F: ON
HC_4_DB	9x 4F Value	00 : OFF – 7F: ON
SAM_1_DB	9x 50 Value	00 : OFF – 7F: ON
SAM_2_DB	9x 51 Value	00 : OFF – 7F: ON
SAM_3_DB	9x 52 Value	00 : OFF – 7F: ON
SAM_4_DB	9x 53 Value	00 : OFF – 7F: ON
SH_HC_1_DA	Bx 44 Value	00 : OFF – 7F: ON
SH_HC_2_DA	Bx 45 Value	00 : OFF – 7F: ON
SH_HC_3_DA	Bx 46 Value	00 : OFF – 7F: ON
SH_HC_4_DA	Bx 47 Value	00 : OFF – 7F: ON
SH_SAM_1_DA	Bx 48 Value	00 : OFF – 7F: ON
SH_SAM_2_DA	Bx 49 Value	00 : OFF – 7F: ON
SH_SAM_3_DA	Bx 4A Value	00 : OFF – 7F: ON
SH_SAM_4_DA	Bx 4B Value	00 : OFF – 7F: ON
SH_HC_1_DB	Bx 4C Value	00 : OFF – 7F: ON
SH_HC_2_DB	Bx 4D Value	00 : OFF – 7F: ON
SH_HC_3_DB	Bx 4E Value	00 : OFF – 7F: ON
SH_HC_4_DB	Bx 4F Value	00 : OFF – 7F: ON
SH_SAM_1_DB	Bx 50 Value	00 : OFF – 7F: ON
SH_SAM_2_DB	Bx 51 Value	00 : OFF – 7F: ON
SH_SAM_3_DB	Bx 52 Value	00 : OFF – 7F: ON
SH_SAM_4_DB	Bx 53 Value	00 : OFF – 7F: ON

Beat1_DA	9x 54 Value	00 : OFF – 7F: ON
Beat2_DA	9x 55 Value	00 : OFF – 7F: ON
Beat3_DA	9x 56 Value	00 : OFF – 7F: ON
Beat4_DA	9x 57 Value	00 : OFF – 7F: ON
Beat1_DB	9x 58 Value	00 : OFF – 7F: ON
Beat2_DB	9x 59 Value	00 : OFF – 7F: ON
Beat3_DB	9x 5A Value	00 : OFF – 7F: ON
Beat4_DB	9x 5B Value	00 : OFF – 7F: ON
Update_All_Controls	Bx 7F Value	00 : OFF – 7F: ON ¹