

SoundBridge IR Specification

Roku SoundBridge Helpful Tips for Developers



ROKU™

Revision 1.1 | November 30, 2004

Introduction

Some developers are interested in the specifications of the SoundBridge's IR Protocol. This document documents the IR format and protocol and details the keycodes.

Carrier Frequency

The IR Protocol for the SoundBridge is carried on a 38KHz frequency.

Format

NEC 6121 (μ PD 6121G with simple repeat code)

Custom Code

The custom code is 6F90

Keycodes

The following is the list of keycodes for the SoundBridge (M1000 and M2000).

Value	Short Description	Log Description
0x10	Nav Left	Left navigation arrow
0x11	Nav Right	Right navigation arrow
0x12	Nav Up	Up navigation arrow
0x13	Nav Down	Down navigation arrow
0x14	Select	Select key
0x15	Exit	Exit key
0x16	Power	Power toggle key
0x17	Menu	Menu key
0x18	Search	Search
0x19	Play	Resume Playback
0x1A	Next Track	Next track seek
0x1B	Prev Track	Previous track seek
0x1C	Pause	Pause Playback
0x1D	Add	Add to Song Queue
0x1E	Shuffle	Shuffle Toggle
0x1F	Repeat	Repeat Toggle
0x40	Volume Up	Volume Up
0x41	Volume Down	Volume Down
0x42	Brightness	Brightness
0x43	Discrete On	Discrete Power On
0x44	Discrete Off	Discrete Power Off
0x45	User Repeat 1	User Definable w/ Repeat
0x46	User Repeat 2	User Definable w/ Repeat
0x47	User Repeat 3	User Definable w/ Repeat
0x48	User Repeat 4	User Definable w/ Repeat

0x49	User Repeat 5	User Definable w/ Repeat
0x4A	User Repeat 6	User Definable w/ Repeat