

Xumo Stream Box

Target Device Information

Purchased from <https://shop.xumo.com/xumosb-xi1.html>

Device and remote images available here.

The set-top is manufactured by Sercomm. It is based on the Comcast Xfinity X1 platform and uses a variant of the X1 codes (subdevice 8 instead of 16).

Information from the bottom of the target device:

XiOne-SC(B)

Model No.: SCXI11BEI

FCC-ID: P27-XIONESCM2

HW Version: 1.1

OEM Remote Information

Model: R34010BA00-00005

Manufacturer: UEI

Remote Codes (Pronto)

Note: The device does not have discrete on/off codes. However, the Home button will wake the device from sleep.

Button	Function (Decimal)	Pronto CCF Hex (Generated)
Power (toggle)	15	0000 006D 0012 0012 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 004B 0008 001D 0008 0046 0008 001D 0008 006A 0008 001D 0008 001D 0008 0BEF 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 0022 0008 0046 0008 0046 0008 001D 0008 006A 0008 001D 0008 001D 0008 0BEF
Input	87	0000 006D 0012 0012 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 005B 0008 001D 0008 0046 0008 0037 0008 0041 0008 001D 0008 001D 0008 0BEF 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 0032 0008 0046 0008 0046 0008 0037 0008 0041 0008 001D 0008 001D 0008 0BEF
Vol+	10	0000 006D 0012 0012 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 0065 0008 001D 0008 0046 0008 001D 0008 0051 0008 001D 0008 001D 0008 0BEF 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 003C 0008 0046 0008 0046 0008 001D 0008 0051 0008 001D 0008 001D 0008 0BEF
Vol-	11	0000 006D 0012 0012 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 0060 0008 001D 0008 0046 0008 001D 0008 0056 0008 001D 0008 001D 0008 0BEF 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 0037 0008 0046 0008 0046 0008 001D 0008 0056 0008 001D 0008 001D 0008 0BEF

9	9	0000 006D 0012 0012 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 006A 0008 001D 0008 0046 0008 001D 0008 004B 0008 001D 0008 001D 0008 0BEF 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 0041 0008 0046 0008 0046 0008 001D 0008 004B 0008 001D 0008 001D 0008 0BEF
0	0	0000 006D 0012 0012 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 0046 0008 001D 0008 0046 0008 001D 0008 001D 0008 001D 0008 001D 0008 0BEF 0008 001D 0008 001D 0008 0046 0008 006A 0008 0032 0008 0032 0008 002C 0008 0065 0008 020C 0008 001D 0008 001D 0008 0046 0008 0046 0008 001D 0008 001D 0008 001D 0008 001D 0008 0BEF

Protocol Information

The remote protocol is XMP, where the last byte is 0.

“XMP uses one burst pair to encode numbers 0 to 15, with an on duration of 210uS, and off duration of 760uS + n*136uS where n takes on values of 0 to 15.”

Each button press is sent as 2 4-byte frames, with a short pause in between the two frames. The frames can then be repeated with T=8 (I haven't seen T=9 with this remote).

The codes are similar to the normal Xfinity cable box code (URC 1982), where the Subdevice is 16 decimal (hex 0x10) and the Device is 62 decimal (hex 0x3E).

But for the Xumo, the Subdevice has been changed to 8 decimal (hex 0x08) and the Device is 62 decimal (hex 0x3E).

Frames look like the following:

0	0	8	F	4	4	3	E	0	X	0/8	8	X	X	0	0
S:4	C1	S	15	OEM	D			S:4	C2	T	S				
Subdevice Hi	Checksum First Byte	Subdevice Low	Fixed Value	OEM Code (0x44)	Device Code			Subdevice Hi	Checksum 2nd Byte	0 = original, 8 = repeat	Subdevice Low	Function Code (we always see last byte as 00 for this particular device)			

How to calculate the checksum digit:

The checksum nibble is the complement of 15 plus the sum of the other 7 nibbles, mod 16

How to verify the checksum digit:

Just add all the digits mod 16, the result should be 0.