



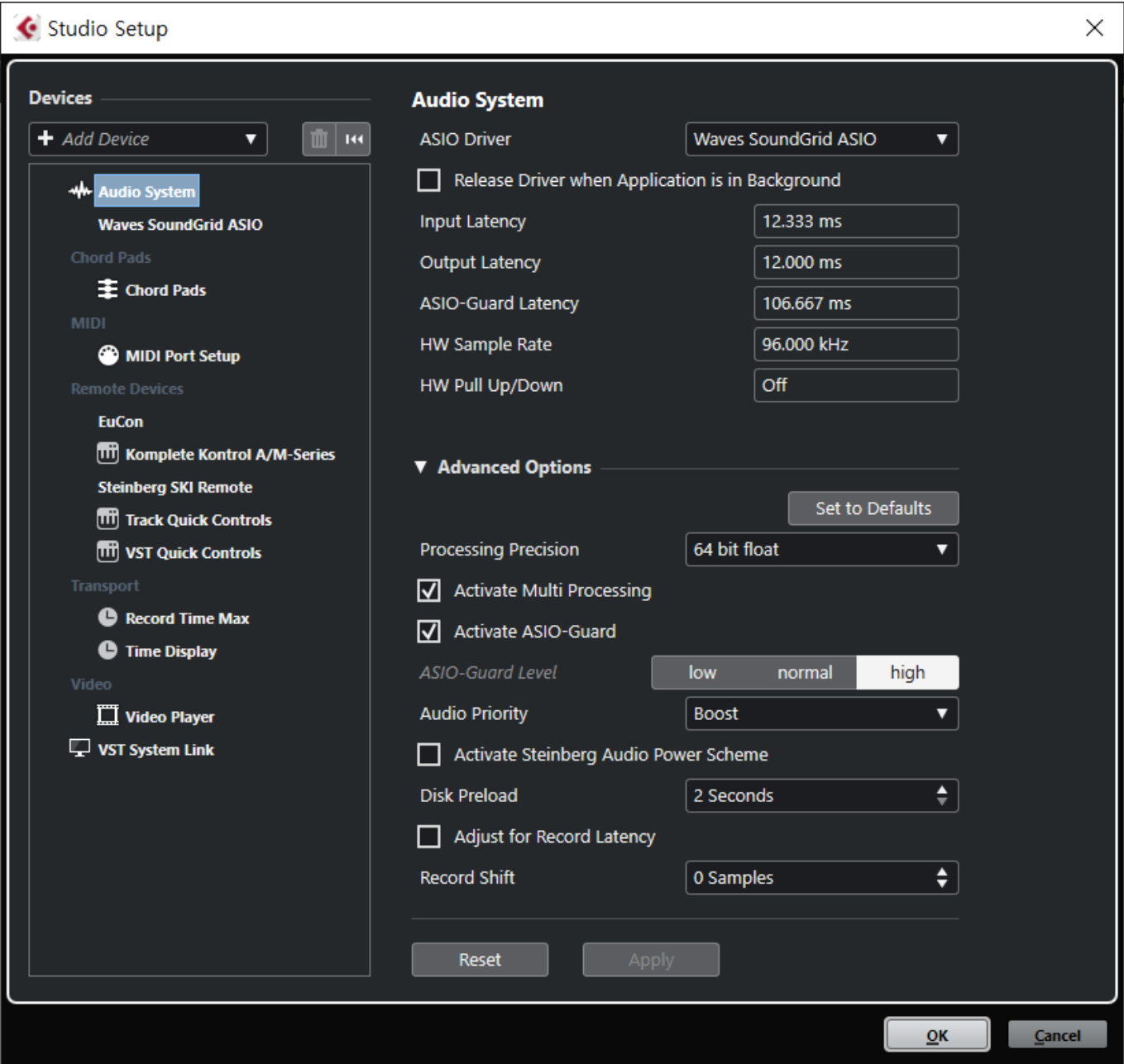
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Studio setup

Cubase

ASIO-Guard



Cubase Studio setup Audio system 가 .

! 가
ASIO-Guard
가 .
ASIO
ASIO-Guard

ASIO
Audio drop out
Buffer
가
ASIO-Guard
MIDI
1) ASIO-Guard buffer
CPU
VSTi
ASIO buffer
VSTi, MIDI
ASIO
가
ASIO-Guard buffer
“ ”
가
3
가
High
가
Buffer
가
ASIO-Guard latency
가
2)

ASIO buffer
ASIO buffer :
ASIO-Guard buffer :
VSTi
VSTi

ASIO-Guard
VSTi , Input monitor
가
3)
VSTi
ASIO-Guard latency

ASIO Guard latency

가
ASIO latency
ASIO-Guard latency가 100ms
100ms
CPU
DAW
Input buffer Playback buffer
가 DAW
ASIO-Guard latency
가
VSTi

Audio system

ASIO driver

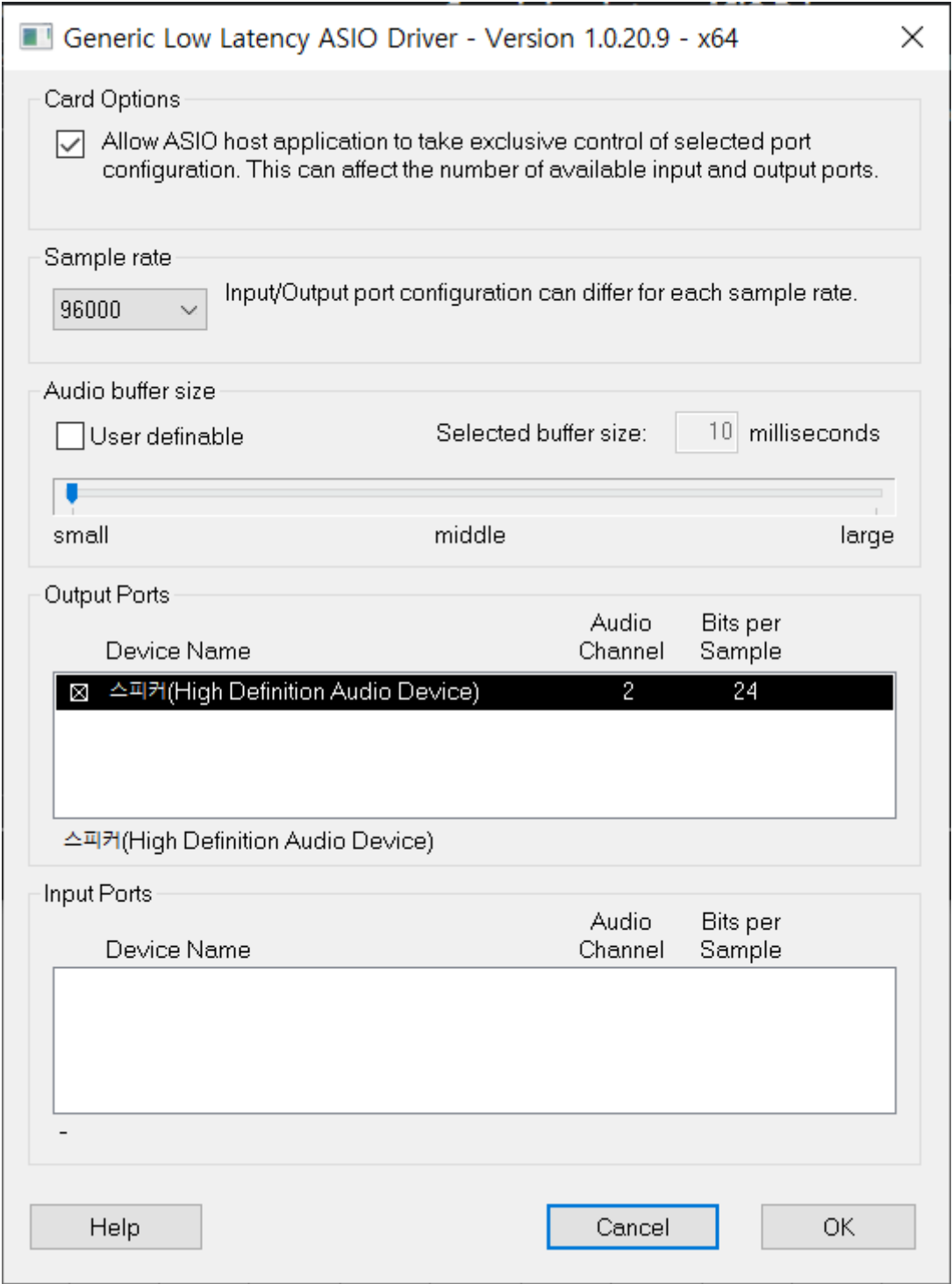
Cubase

Generic Low Latency ASIO driver

ASIO

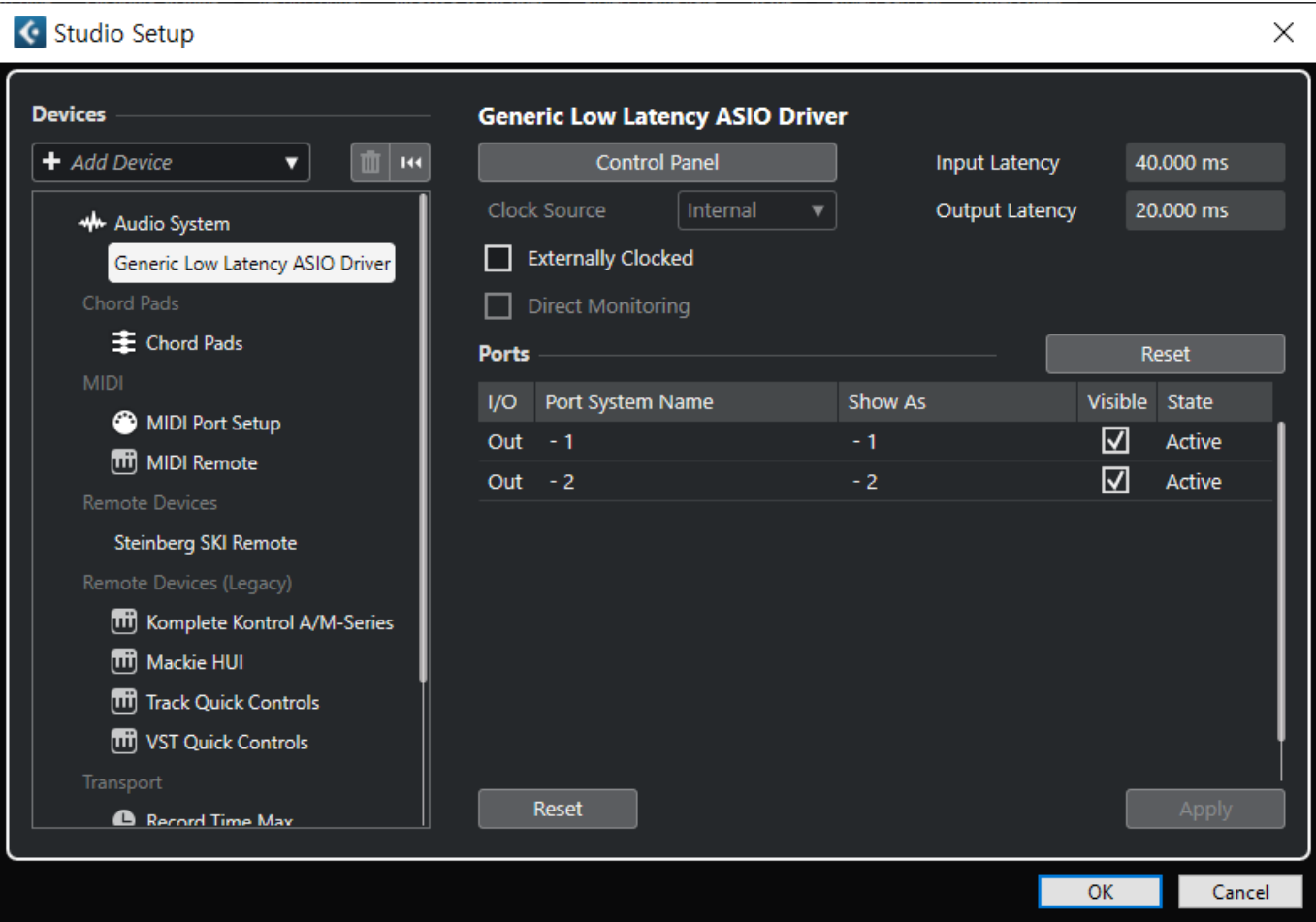
ASIO

⁴⁾ ASIO



Realtek Cubase ASIO

Generic ASIO driver



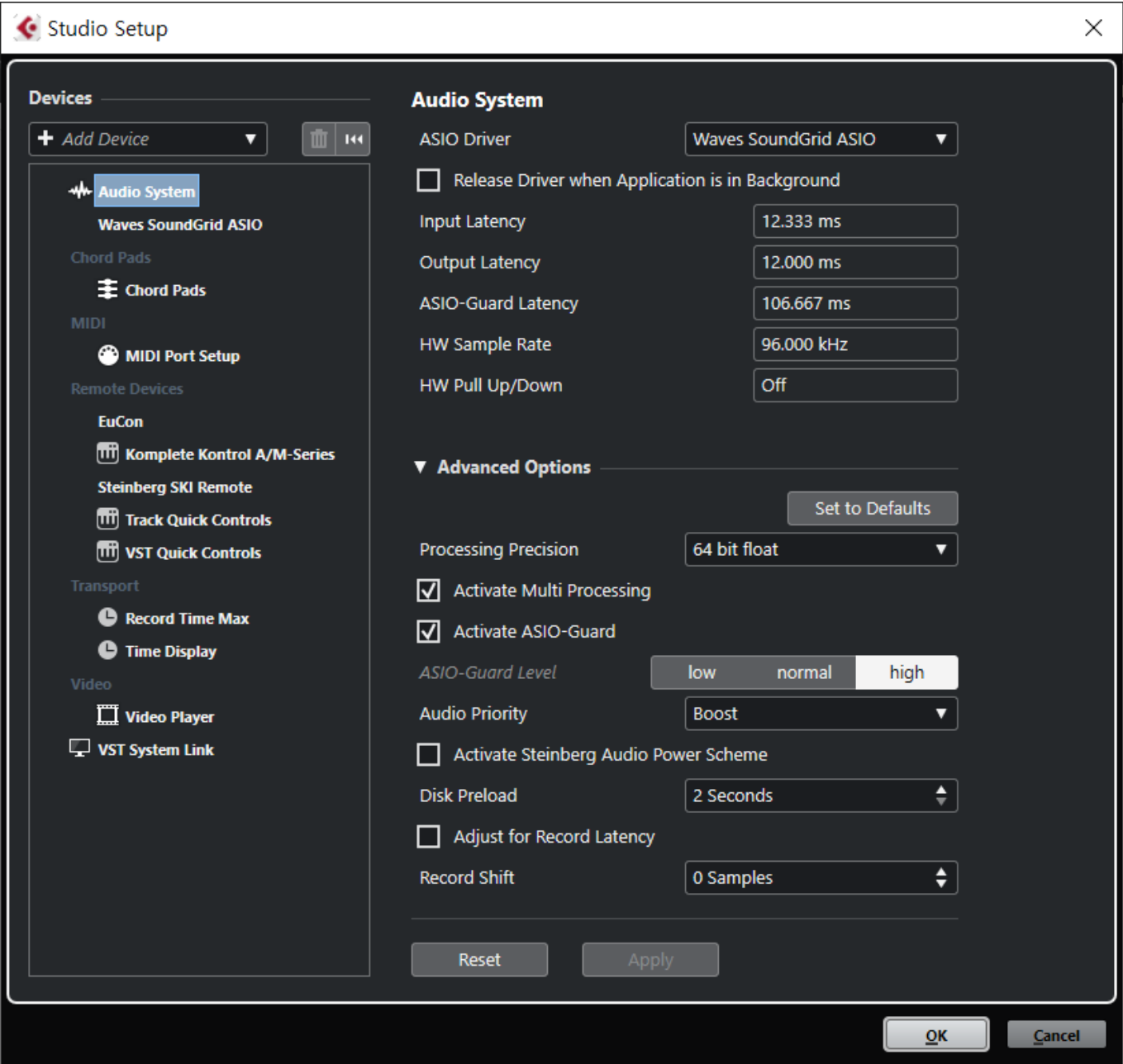
가 , ASIO4ALL , ASIO4ALL
Generic ASIO driver .

Advanced option

Procession Precision

(32-bit float, 64-bit float), Cubase , .

ASIO guard



Cubase Studio setup Audio system 가 .



ASIO Buffer , , Buffer가
 , Audio drop out 가 .

Buffer MIDI, ASIO-Guard 5) ASIO-Guard buffer CPU

VSTi, MIDI ASIO 가 VSTi ASIO buffer ASIO-Guard buffer “ ” 가

3 가 High 가 Buffer 가 ASIO-Guard latency 가 6)

ASIO buffer

ASIO buffer : , VSTi

ASIO-Guard buffer : , VSTi

ASIO-Guard VSTi , Input monitor , VSTi . ASIO-Guard latency 가 7)

ASIO Guard latency

가 ASIO latency , CPU

. ASIO-Guard latency가 100ms , 100ms

가

DAW , Input buffer Playback buffer 가 DAW

ASIO-Guard latency VSTi

가

Audio priority

- BOOST : Audio MIDI 가
- NORMAL : Audio MIDI

MIDI Port setup

Windows MIDI

Windows MIDI

DirectMusic MIDI

directMusic(directX) MIDI

Windows 95

directMusic(direcX)

MIDI

.

WinRT MIDI

Windows RunTime MIDI

Windows 10

Cubase 12

MIDI Protocol

WinRT MIDI

Windows 10, 11

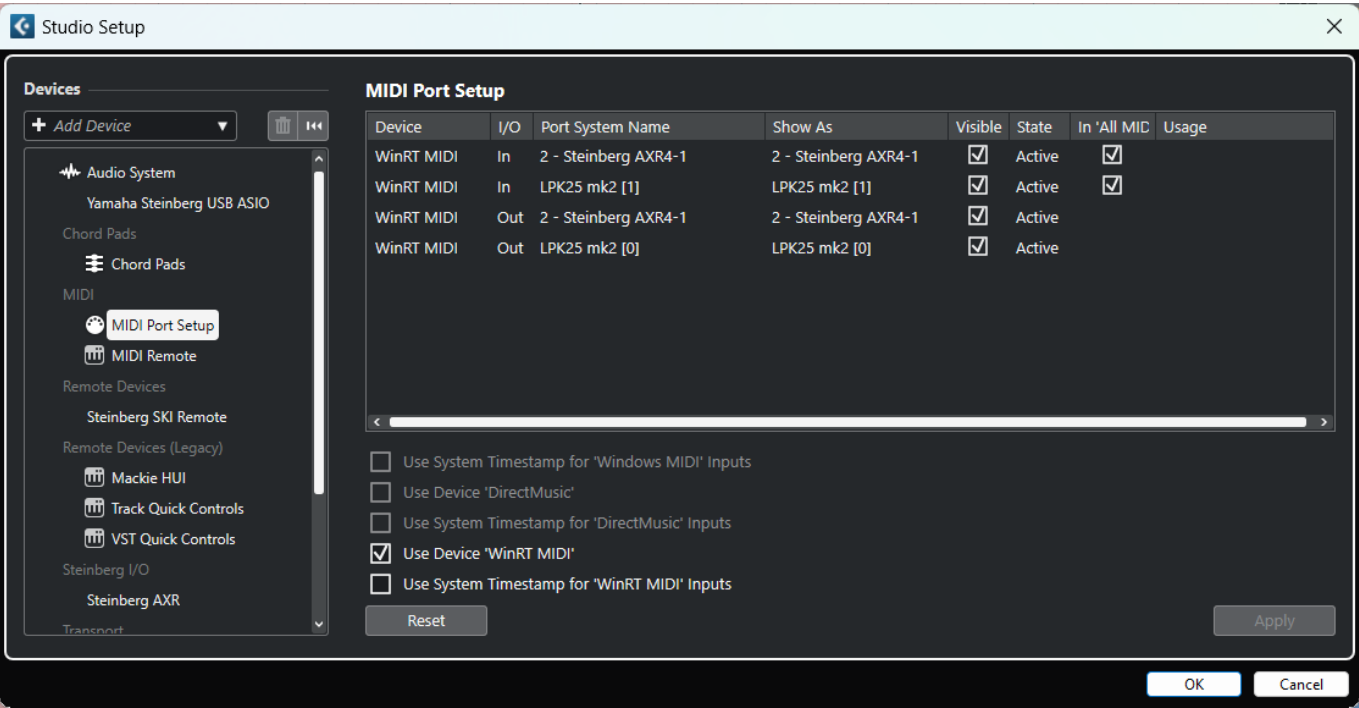
Bluetooth MIDI

8)

.

MIDI가.

<https://helpcenter.steinberg.de/hc/en-us/articles/4501438703122-WinRT-MIDI-and-Windows-Bluetooth-MIDI-support-in-Cubase-12>



Use System Timestamp

MIDI

System timestamp

MIDI

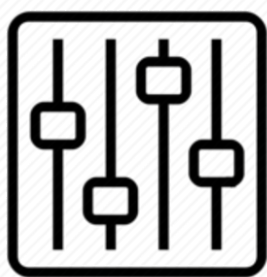
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가.

1) 5),

2) 6),

High , ASIO-Guard buffer ASIO buffer가 ,
3) 7) ,
가 ASIO-Guard
가 ASIO-Guard
4)
8)
MAC 2016



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