U.192 MPX USB Audio Interface

User Guide

Co-branded by Angry Audio & MaxxKonnect

ANGRYAUDIO

Table of Contents

What Is This Thing?

The U.192 is the first USB audio interface designed specifically for FM composite (MPX) audio. It's purpose-built to get MPX out of your PC reliably, predictably, and beautifully — without science experiments or driver drama.

If you're running software like StereoTool or MicroMPX, this is the final link between digital audio processing and your transmitter. You've found your unicorn.

The U.192 features DC-coupled outputs to preserve the integrity of MPX signals — including pilot, subcarrier, and square wave test tones without tilt.

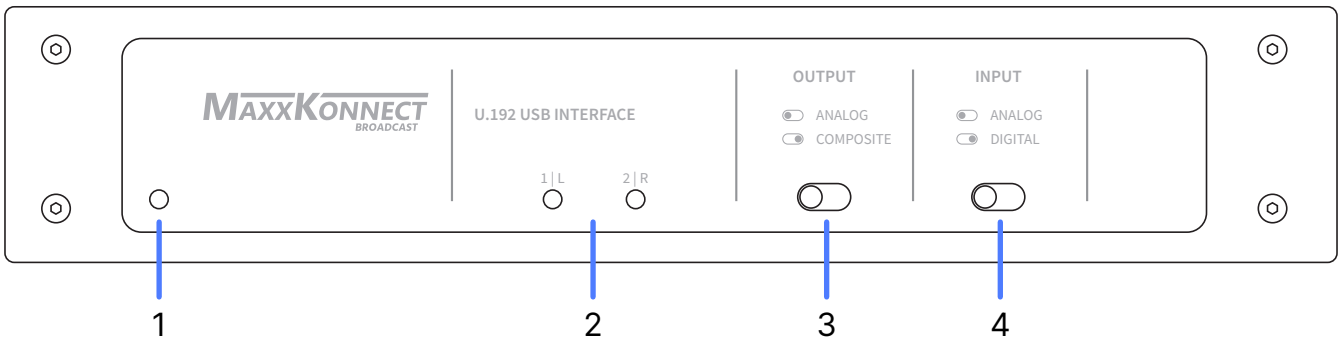
DC-coupled = no high-pass filter = your square waves don't wobble.

What's in the Box

- U.192 MPX USB Audio Interface
- USB-A to USB-B cable
- StudioHub dual XLR Female to RJ45 adaptor
- USB Thumbdrive with driver and documentation

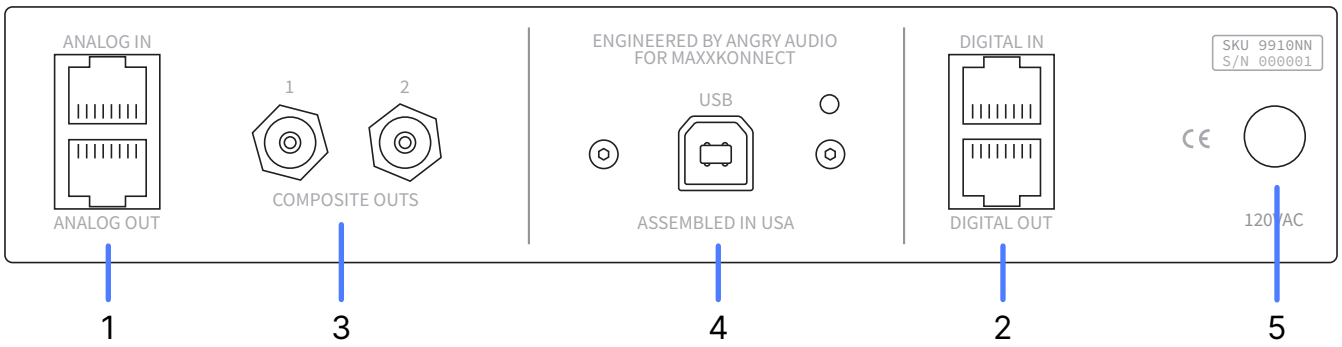
Optional accessories: rackmount kit, wall mount brackets, StudioHub adapters for analog or digital audio.

Front Panel



1. Power LED
2. Signal/Clip LEDs (L/R or Ch1/Ch2)
3. Output Select Switch (MPX BNC vs Analog RJ45)
4. Input Select Switch (Digital AES vs Analog)

Rear Panel



1. StudioHub RJ45 Analog I/O
2. StudioHub RJ45 AES/EBU I/O
3. Composite BNC Outputs (x2, surge protected)
4. USB-B Port + LED
5. Captive AC power cord

Quick Start

1. Connect AC power — internal PSU, no wall wart.
2. Plug USB directly into a real motherboard port. No hubs. Use rear ports on desktops.
3. Mac/Linux? Skip the driver install. You're done.
4. Windows? Continue below.

Windows Driver & Firmware Installation

⚠ Do not skip steps. This process has no respect for your previous driver experience.

1. Connect USB
   - Use the included cable. Rear USB port preferred.
   - Verify USB LED on U.192 is lit. No light = no go.

2. Install Driver (Windows only)
   - Insert the included thumb drive.
   - Navigate to: \InstallDriver\
   - Run: miniDSP_UAC2_*.exe
   - Follow prompts. Accept defaults. Click Finish.

3. Install Firmware
   - Navigate to: \UpdateFirmware\
   - Launch: miniDSPUAC2Dfu.exe
   - Browse to: \Firmware\AllRate\
   - Select: MCHStreamer_8i8o_sn06_AllRate_v1.9a_up.bin
   - Click Start. Wait for success message. Exit.

4. System Sound Settings
   - Set "MCHStreamer" as default input and output.
   - Set format to: 24-bit, 192000 Hz (Studio Quality)
   - Enable exclusive mode for both input and output.

Routing: What Goes Where?

- Input: Choose between analog or AES (front switch).
- Output (MPX mode): Two composite BNCs (L+R or dual mono).
- Output (baseband stereo): StudioHub RJ45 (not simultaneous with MPX).
- AES Output: Always active, fixed at 192 kHz. Use with devices that accept MPX over AES.
- Composite outputs are DC-coupled to ensure full-spectrum accuracy — essential for preserving pilot tone, RDS, and subcarrier symmetry.

Examples:
- Drive two analog exciters with the BNCs.
- Feed an MPX STL + exciter.
- AES to primary exciter, BNC to backup.

Pro Tip: Want to split MPX over AES? Use a StudioHub SH-AESSPLIT transformer. Don't even think about passive Y-cables.

Performance Tuning Tips

Here are a few ways to help your Windows system play nice with USB audio:

- Use a rear USB port (direct to motherboard) — avoids flaky front-panel hubs.
- Set your Windows power plan to High Performance. USB devices hate sleep modes.
- Disable USB Selective Suspend in advanced power settings.
- Disable system sounds and audio enhancements — these interfere with real-time audio.
- Match sample rate and bit depth in Windows and your audio software (192kHz / 24-bit).
- Enable exclusive mode in Sound Settings to give your processing app full control.
- The U.192's DC-coupled outputs maintain signal integrity down to 0 Hz — no tilt on square waves or low-frequency test tones.

If you're still having trouble, contact support — we're happy to help.

Mounting

The U.192 uses the same 1/2RU chassis as other Angry Audio Gadgets:
- Comes with rubber feet (tabletop)
- Optional rack mount kit (side-by-side with another 1/2RU unit)
- Wall and under-counter mounting kits available

Troubleshooting

USB LED won't light?
- Bad cable, bad port, or your computer isn't delivering USB power.

Clipping indicator flashes?
- Your output level is too high. Adjust in software.

Digital output not working?
- It operates at a high sample rate (typically 192 kHz or 176.4 kHz), depending on your processing software. Make sure your device supports that rate.

Still stuck? We're happy to help:
https://angryaudio.com/contact/

Warranty & Returns

- 2-year warranty against defects.
- 45-day 'Love it or send it back' sales guarantee.
- If you're not satisfied, just send it back in good condition within 45 days for a full refund. No forms. No drama.

Specs

Sampling Rate	192 kHz, 176.4 kHz (Software dependent)
Output Voltage	Up to 10 Vpp
Output Type	50Ω BNC composite (MPX), analog RJ45, AES (192kHz)
Output Coupling	DC-coupled — preserves full MPX spectrum with no square wave tilt
Input Type	Analog or AES selectable
Power	Internal AC/DC power supply with region-specific captive cord:
	991061 US 120VAC
	991061A AUS 240VAC
	991061E EU 240VAC
	991061U UK 240VAC
USB	Type-B, USB 2.0 class compliant

Built for Broadcast.

No fluff. No fiddling. Just beautiful composite audio.

ANGRY AUDIO
128 Holiday Court, Suite 118
Franklin, TN 37067
www.angryaudio.com

MAXXKONNECT
www.maxxkonnect.com

⚠ Safety & Compliance

Safety Instructions

1. **Read these instructions**. Preferably before plugging things in.
2. **Keep these instructions**. They may come in handy someday—perhaps even today.
3. **Heed all warnings**. Especially the ones in bold.
4. **Follow all instructions**. We wouldn't say it if it didn't matter.
5. **Do not use this apparatus near water. Pools, sinks, oceans, and other hazards of nature.**
6. **Clean only with a dry cloth**. Resist the urge to power-wash it.
7. **Do not block any ventilation openings**. These help keep the magic smoke in.
8. **Install in accordance with the manufacturer's instructions**. Or at least don't wing it.
9. **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses that produce heat** (including certain guitar amps).
10. **Protect the power cord**. Don't walk on it, roll your chair over it, or use it as a jump rope.
11. **Only use attachments/accessories specified by the manufacturer**. Your blender blade doesn't count.
12. **Unplug this apparatus during lightning storms or when unused for long periods of time**. Lightning is nature's factory reset.
13. **Refer all servicing to qualified service personnel**. Not your neighbor with a soldering iron and YouTube channel.
14. **Do not defeat the safety purpose of the grounding-type plug**. That third prong is there for a reason.

Regulatory Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

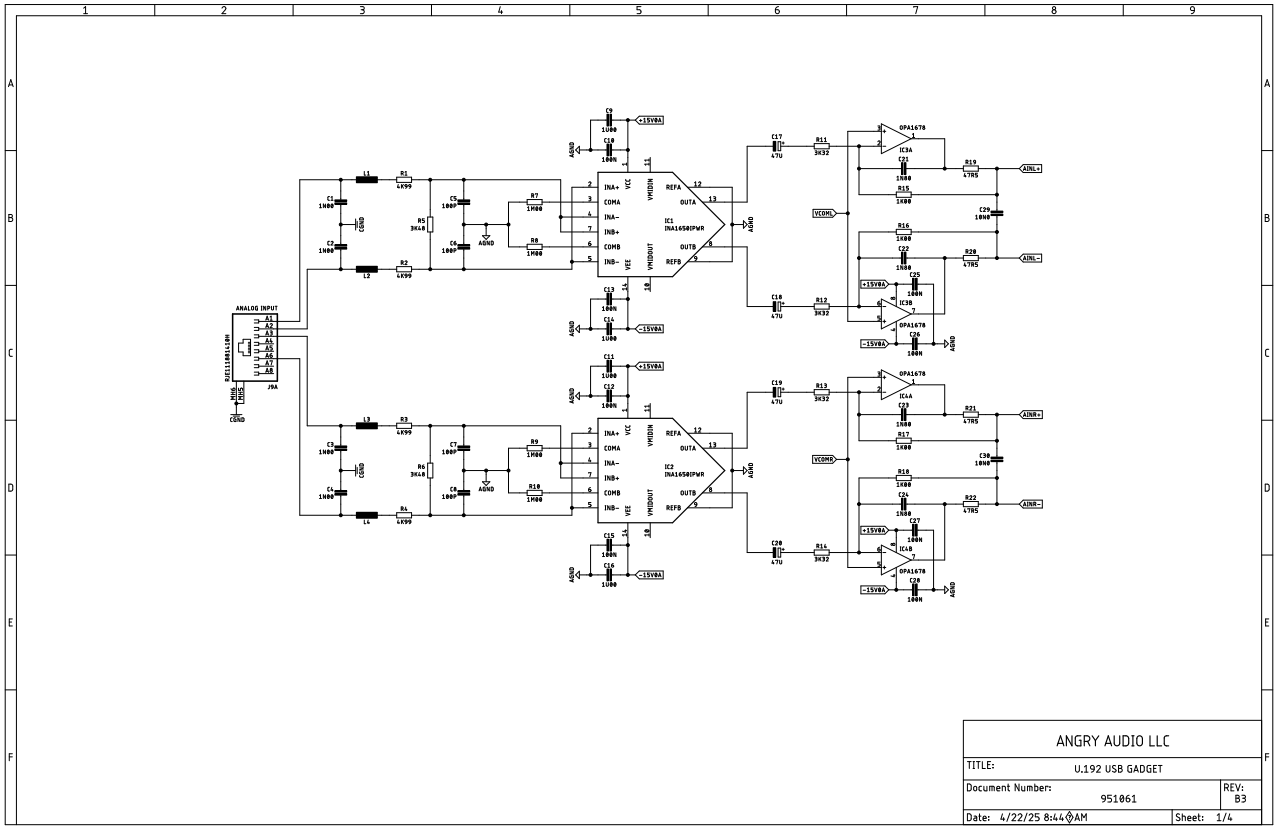
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

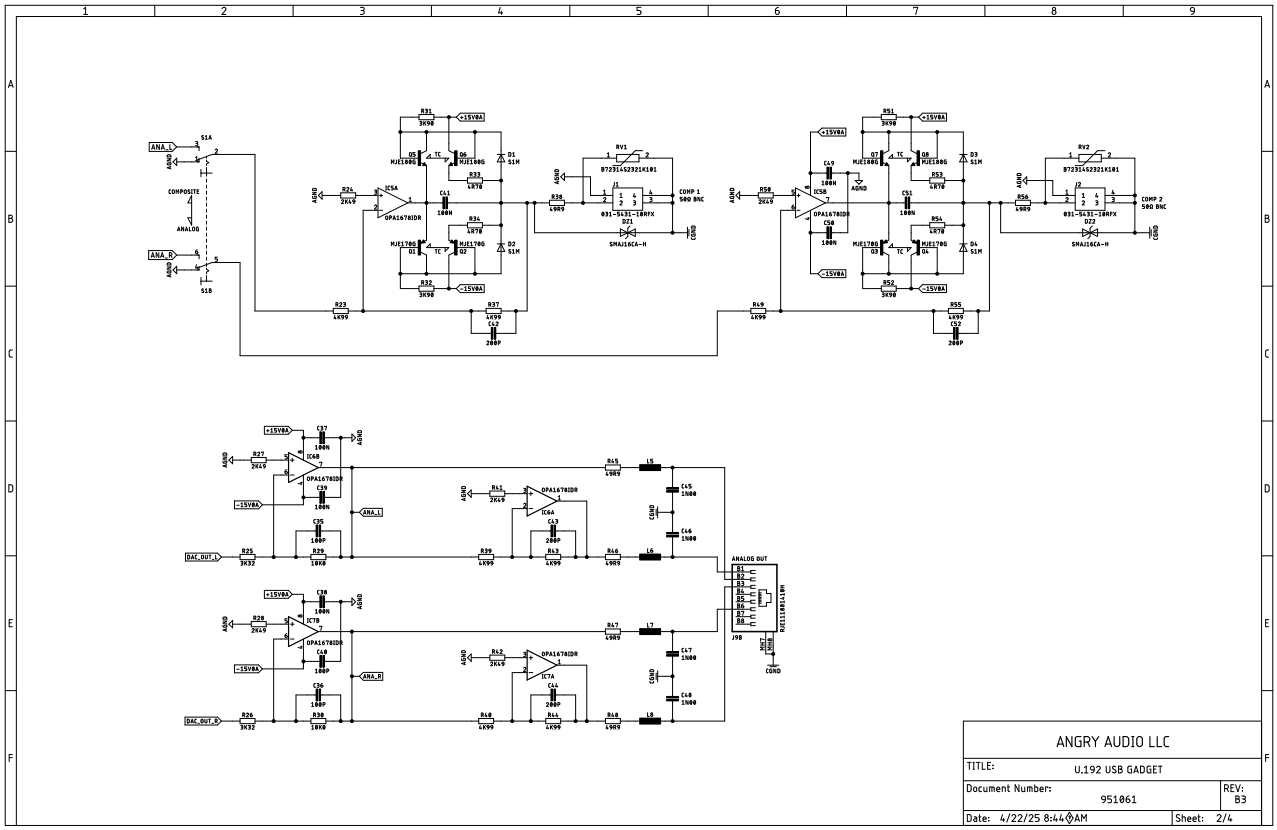
Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense. So yes, your neighbor's AM radio might hear your audio processor—and no, they probably won't enjoy it.

EMC Notes

To reduce radio noise emitted from your equipment, ensure proper cable routing and shielding practices. Use high-quality cables and connect all shield grounds as recommended. Don't forget to bond equipment chassis to a common ground point—otherwise, your gear might decide to become a part-time radio station.
Remember: good grounding makes good neighbors.

Schematics





Schematics