Application Note

Remote control of L- and C Series amplifiers over Ethernet using USB device servers

L- and C-Series amplifiers are equipped with a USB 2.0 interface for remote control and monitoring. Firmware 2.0 (free upgrade, available as download on dynacord.com) in combination with SONICUE sound system software supports now the use of so-called USB device servers, allowing the use of USB devices in an Ethernet network with all its advantages. For networked audio transmission we recommend to use 3rd party Dante converters (see audinate.com for listed products).

Requirements

L- or C- Series amplifiers with firmware 2.0 (or higher)

SONICUE Sound System Software 1.1 (or higher) installed on computer

USB Device Server (3rd party*): USB 2.0 (480Mbit/s), Ethernet (10BASE-T, 100BASE-TX, 1000BASE-T), compatible with Windows 10 OS.

Ethernet cabling: Cat5e/Cat6

Operation

USB device servers are designed to easily connect and share USB devices over a network. Typically they are used to enable printers, scanners, or disk drives with network capability. They can also be deployed to remotely control and monitor L- and C Series amplifiers. There are two components in the system: the USB device server itself which connects the USB devices by translating USB data into TCP/IP protocol. The second component is a software tool, which needs to be installed on the computer. It translates back TCP/IP protocol into USB data.

Basic set up
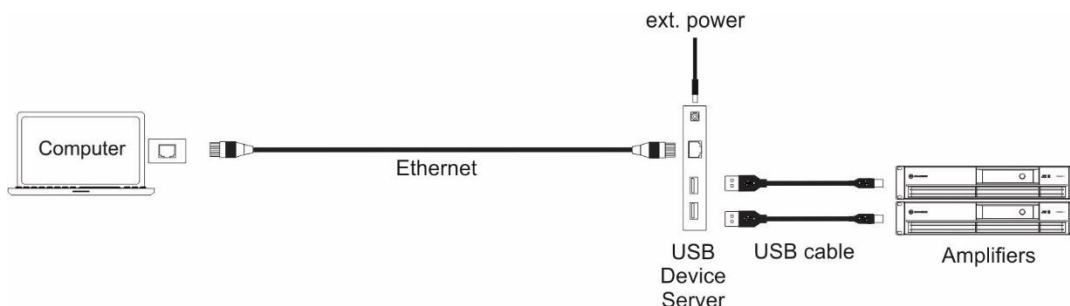
Direct connection from computer to the USB device server.

Setup in network
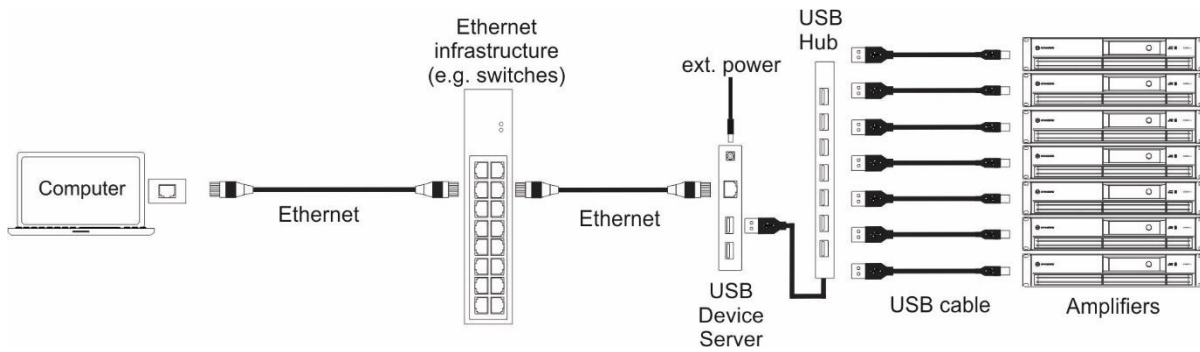
Network integration and using a USB hub (if supported by the USB device server) to connect more amplifiers to the USB device server

Note: the maximum amount of amplifiers to be connected to one USB device server is limited to seven devices. For more amplifiers you have to deploy additional USB device servers.

Setup with wireless access point
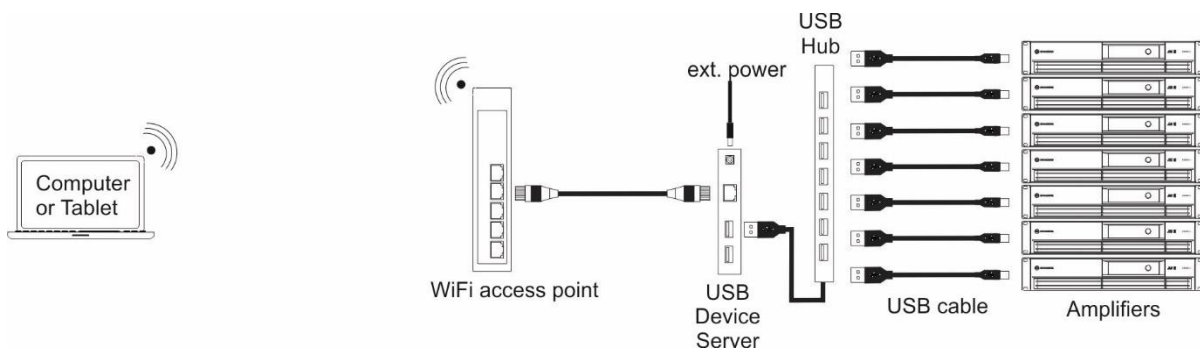
WiFi connection from computer (or tablet) to USB server – allows using off-the-shelf IT devices to tune systems.

*) we tested several devices from different manufactures and found them all compatible. However, we can't guarantee that all devices available on the market will work.