

# 1Gbit Network Requirement

SFP modules and -ports are designed for a single speed and do not exist in a dual-speed configuration. The SFP modules and ports that we use in our Taiko Audio products are specified to work only at 1Gb.

As a result, the following Taiko Audio products's SFP ports will not work with 100mb connections, only with 1Gb connections:

- Extreme Switch
- Extreme Network Card (as mounted in the Extreme Server)
- Olympus Network Card (as mounted in Olympus Server or I/O)

Conversely, RJ45 ports can work in 100Mb and 1Gb mode. As a result, products that have both SFP and RJ45 ports will be partially compatible with 100Mb and 1Gb connections:

- Extreme Router RJ45 ports: 100Mb and 1Gb
- Extreme Router SFP/DAC port: 1Gb only

## In Practice

Any network interfaces upstream (ahead) of the Taiko Audio Extreme Switch or Network Card, such as generic routers or switches, must be 1 Gb. For the Taiko Audio Extreme Router, the same holds true when it concerns devices connected to its SFP/DAC port.

For the upstream network that feeds the Extreme Router via RJ45, there is no 1Gb requirement, and that network may be 100Mb or 1Gb. This is also true for a MESH router with a (lower than 1Gb-) Wi-Fi source.

Please note that some Ethernet cables are restricted to 100Mbit (as opposed to Gigabit), and as a result, these are also be incompatible.

The Gigabit requirement only pertains to your local network's maximum rated speed, not to your internet subscription. The actual speed of the data does not need to be 1Gb. Nevertheless, faster internet connections do tend to work more reliably, especially with Roon.