

## How to check that the Network Connection is active and the Extreme Network Switch is working

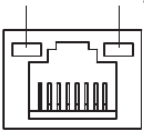
- Method 1 - When using the LAN 1 RJ45 UTP connection on the Extreme, you can check the connectivity and uplink speed by looking at the multi-colored LEDs above the LAN 1 connector.
- Method 2 - Whether you are using either LAN 1 or the Extreme Network Card's DAC connection, you can always see the status and uplink speed in the Extreme Music Server's network adapter properties.

### Method 1 - LAN 1 RJ45 Connector LED indicators

The LAN 1 RJ45 connector contains multi-colored LEDs that indicate the activity and speed. Please refer to the below table.

### RJ-45 LAN Port

The Gigabit Ethernet LAN port provides Internet connection at up to 2.5 Gbps data rate. The following describes the states of the LAN port LEDs.

Speed LED	Activity LED	Speed LED:	Activity LED:														
		<table border="1"><thead><tr><th>State</th><th>Description</th></tr></thead><tbody><tr><td>Green</td><td>2.5 Gbps data rate</td></tr><tr><td>Orange</td><td>1 Gbps data rate</td></tr><tr><td>Off</td><td>100 Mbps data rate</td></tr></tbody></table>	State	Description	Green	2.5 Gbps data rate	Orange	1 Gbps data rate	Off	100 Mbps data rate	<table border="1"><thead><tr><th>State</th><th>Description</th></tr></thead><tbody><tr><td>Blinking</td><td>Data transmission or receiving is occurring</td></tr><tr><td>On</td><td>No data transmission or receiving is occurring</td></tr></tbody></table>	State	Description	Blinking	Data transmission or receiving is occurring	On	No data transmission or receiving is occurring
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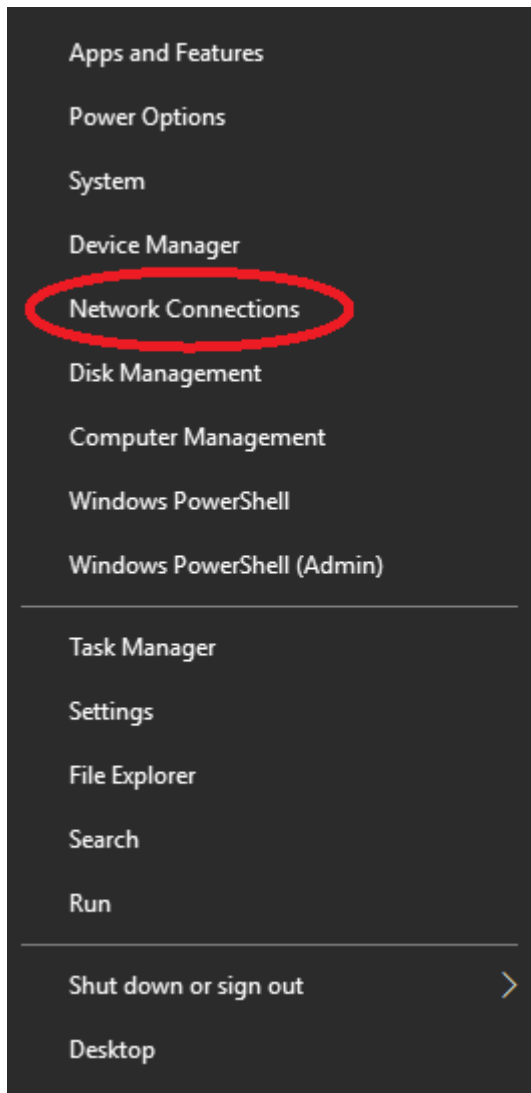
This only works when this port is actually used.

Please note the LED indicates the Link Speed negotiated with the upstream device, not the actual speed of data sent across the link, which could be lower, for instance when a bad quality cable is used.

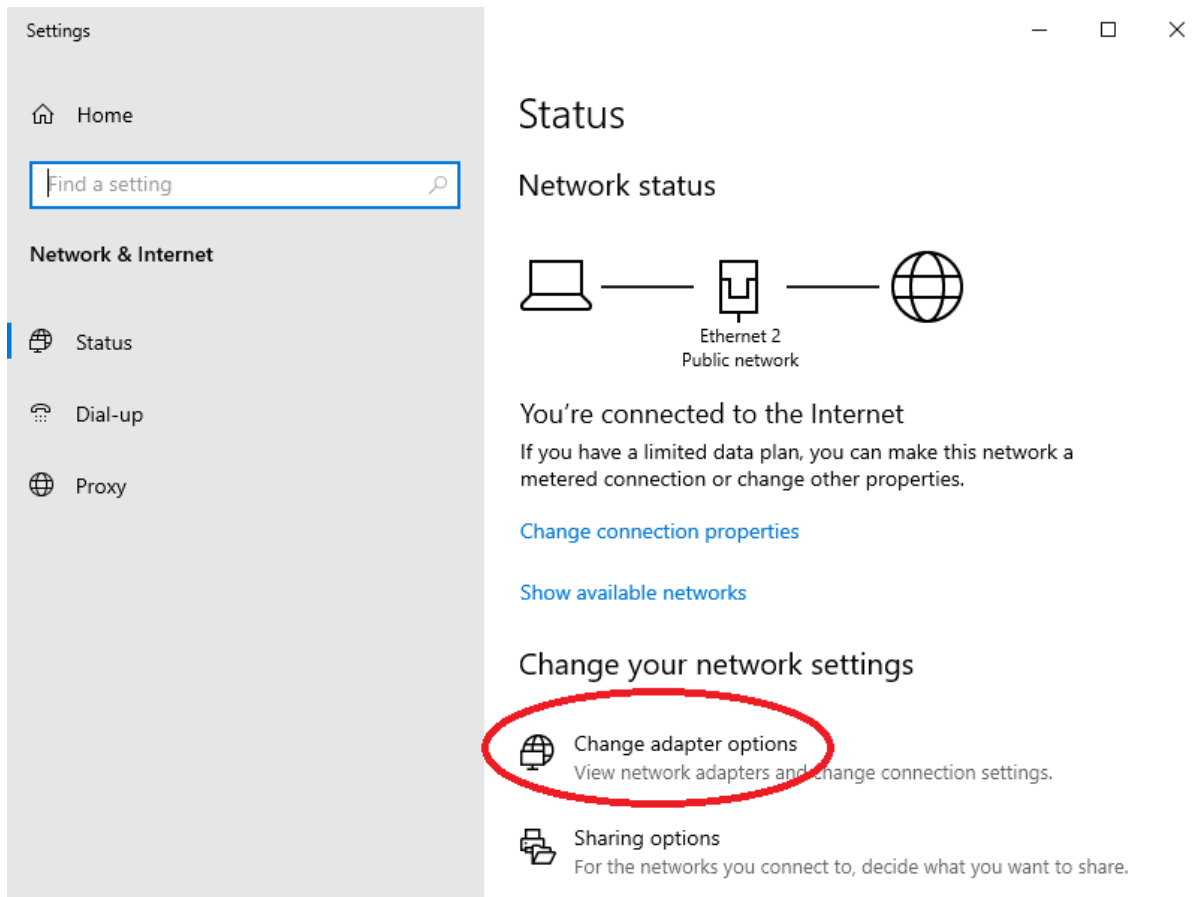
But not matter the connection method, you can always see the uplink status and speed in the Extreme Music Server's Windows software environment by navigating to the Network adapter properties.

### Method 2 - Network Adapter properties

VNC to the Extreme, locate the start menu and right-click the windows icon. Mac users can either double-tap the Trackpad or use Control-Click. In the menu that pops up (which is different from the normal start menu), select Network Connections.

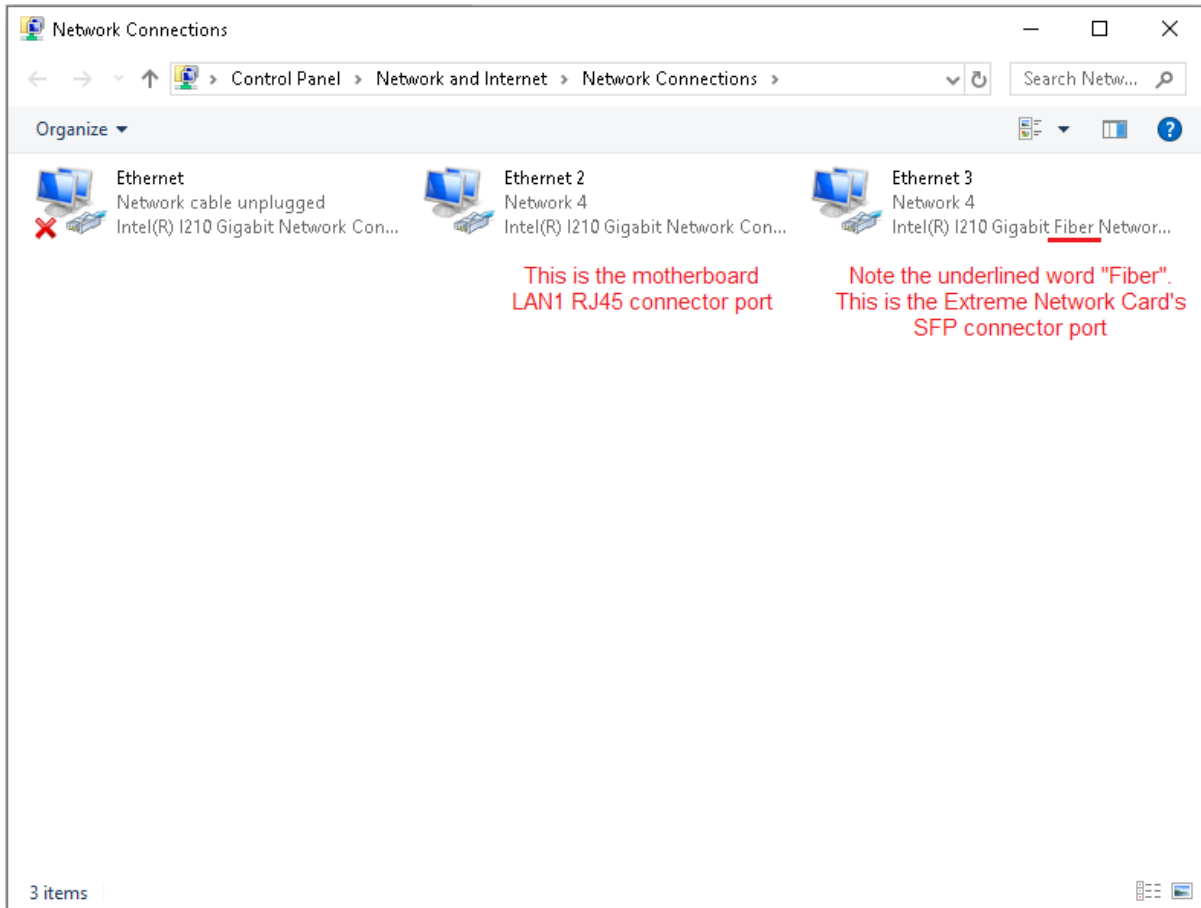


In the Network Connections popup, click “Change Adapter options”.



In the resulting popup, you can check the status of the available network ports. Please refer to the screengrab below as a generic guide.

Note that the connection names may differ per setup as custom names may have been assigned to the adapters by the user or following later Customer Support. Edward has recently (July 2023) started renaming the adapters respectively LAN1, LAN2, and Taiko NIC.



- Ethernet 2 is the regular LAN 1 RJ45 port
- Ethernet 3 "Fiber" is the Extreme Network Card's SFP port



A red cross with the message “Network cable unplugged” means there is no connection. This can mean the cable for this port is not connected or defective.

For Ethernet 3 “Fiber”, to which the Extreme Network Switch will be connected using a DAC Cable, it can mean the DAC cable is inserted incorrectly (wrong orientation) or not fully inserted into the slot(s) (it should click into place). It may also indicate that the upstream Ethernet cable or Switch/Router components do not have a 1Gb bandwidth, which is required for the Extreme Switch and Network Card. Finally, a red cross for Ethernet 3 may indicate that the Extreme Switch is either not powered or, very unlikely, defective.



The absence of the red cross means the port is connected and the link is up. For Ethernet 3 “Fiber”, to which the Extreme Network Switch will be connected using a DAC Cable, the absence of a red cross means that the Switch is working, the DAC Cable is connected, and the link between the Extreme Switch and the Extreme Network Card in the Extreme Music Server is up.

Note that while the Extreme Switch DAC Cable connection may be up, there may still not be an actual internet connection, depending on whether or not the Switch’s input is connected.

When done, simply click away all open windows with the top-right X.