Q NET ⑦

INSTRUCTION MANUAL

QRT®

ABOUT THE QNET7

The QNET7 is a layer-2 Ethernet switch with seven ports designed from the ground up with high-end audio performance and an extremely low noise operation in mind.

Most audiophile switches on the market take an existing consumer-level switch and improve parts of it, typically the power supply and the clock. While this approach certainly produces an improved performance, it doesn't come close to the results achieved by a design conceived from the drawing board to transmit and receive high speed signals.

Whether you stream music and/or video from a local server, your NAS, or from the Internet, the QNET7 will deliver a greater dynamic range, adding extension, clarity, and making the music sound more fluid and life-like, with a much lower noise floor, causing voices and instruments to stand out against a much quieter background.

PLACEMENT

Place the QNET7, preferably on a shelf, so that it stands alone, with its vents unobstructed at all times. Do not place the QNET7 near equipment that generates significant heat or in ambient conditions that exceed 100°F/38°C in temperature or 80% in humidity.

VENTS
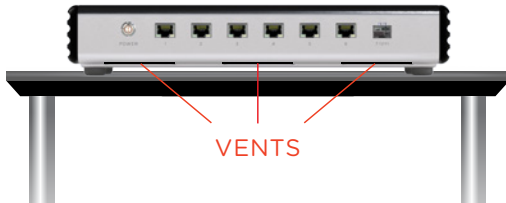
For optimum performance with resonance control, upgrade the QNET7 with Nordost's QRT Stand Mount and Sort Kones.

POWERING UP

Plug in the provided DC power supply to power your QNET7.

As long as the QNET7 is powered on, it is always operational. To turn it off, unplug the power cord or detach the power supply from the wall.


Note: The QNET7's power supply is not interchangeable with the standard QNET power supply.

For best results, this standard power supply can be upgraded to Nordost's QSOURCE.

To power the QNET7 with a QSOURCE, first make sure both devices are off, then set the "A" variable output on the QSOURCE to 9V via the bottom switch.

Finally, with a QNET7 QSOURCE DC Cable, attach the QNET7 to output A and then turn the QSOURCE on.
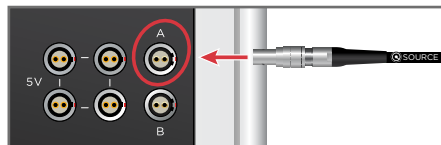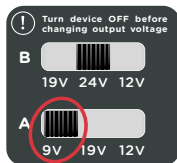
Note: The QNET7 can be powered from 5V to 9V, but to ensure the QSOURCE does not run too warm, we highly recommend the QNET7 be powered from the 9V output of the QSOURCE as described above.

CONNECTING

There are **7 numbered Ethernet Ports** on the back of the QNET7.

Ports 1-5 are auto-negotiated, 1000BASE-T (1 Gbps) capable. Your input (router) and any other generic network devices (including NAS drives) should be connected to these ports for best connectivity.

Port 6 is auto-negotiated, 100BASE-TX (100 Mbps) capable. It is optimized for audio performance. For Port 6, layer 1 and 2 functionalities are further separated into dedicated circuits, allowing for even better noise control and overall performance. Connect the unit that is processing audio downstream from the switch to Port 6 (typically a streamer, or a server/DAC).

Ports 7 is compatible with 1000BASE-T (IEEE 802.3ab) and 1000BASE-X (LX/SX 802.3z-1998 [CL38] only) SFP transceivers/modules. By attaching external, compatible modules, Port 7 can...

be used as an extra RJ-45 port (to connect a router or NAS drive) or as an optical port.

It is highly recommended that, when using pairs of external modules, they are identical at both… ends of the cable that is being used. Multi-mode and single-mode fibers can be used depending on the chosen module. Please refer to the module's documentation to determine the best choice of optical medium and connectors.
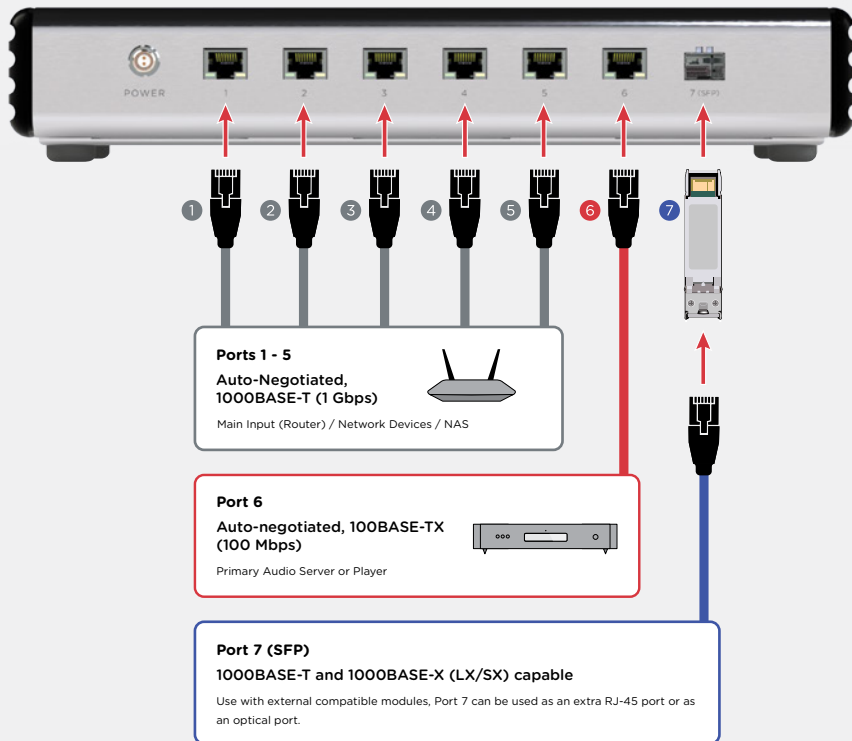
Also note that Port 7 does not support SFP+ modules and supports fixed 1 Gbps 1000BASE-T copper modules only. Modules labeled "10/100/1000BASE-T" are unlikely to work.

For an up-to-date list of modules that have been successfully tested with the QNET7, please refer to our website.

SFP Transceiver / Module Example

RECOMMENDED CONNECTIONS

Ports 1 - 5

Auto-Negotiated, 1000BASE-T (1 Gbps)

Main Input (Router) / Network Devices / NAS

Port 6

Auto-negotiated, 100BASE-TX (100 Mbps)

Primary Audio Server or Player

Port 7 (SFP)

1000BASE-T and 1000BASE-X (LX/SX) capable

Use with external compatible modules, Port 7 can be used as an extra RJ-45 port or as an optical port.

LED INDICATORS

For **Ports 1-5** the LED indicators on the back will flash green if a connection is established at 1 Gbps, orange at 100 Mbps and both at 10 Mbps.

For **Port 6** the LED indicators on the back will flash orange when connected either at 100 Mbps or 10 Mbps.

For **Port 7** (SFP) the LED indicator on the back will light up steady blue when a connection is established. Please note that there is a wide variety of modules on the market, and some of them will cause the LED to turn on just by being inserted in the SFP port.
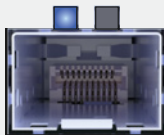
Please make sure you use appropriate cables for the performance-level you intend to achieve. **For best results consider Nordost Ethernet cables.**

BLUE HEAVEN 3

HEIMDALL 2

VALHALLA 2

SPECIFICATIONS

Type:	Layer 2 unmanaged switch
Number of ports:	7
Ports capability:	**Ports 1-5** are 1000BASE-T/100BASE-TX capable with auto-negotiation and auto-MDI/MDI-X support.
	Port 6 is 100BASE-TX capable with auto-negotiation and auto-MDI/MDI-X support.
	Port 7 is 1000BASE-T and 1000BASE-X (LX/SX) capable.
Connectors:	6x 8P8C (RJ45), 1x SFP
DC Power Input:	5V/1A
Weight:	1.65kg (3.64lb)
Dimensions:	320mm x 122mm x 59.25mm / 12.6in x 4.8in x 2.33in with feet

WARRANTY

NORDOST

See www.nordost.com/downloads.php for more language options