

# 25G Ethernet for macOS

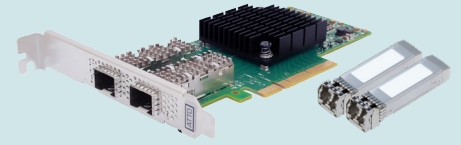


Sonnet Twin25G

**SONNETTECH<sup>®</sup>**  
vs.  
ATTO Technology



Who is the Winner?

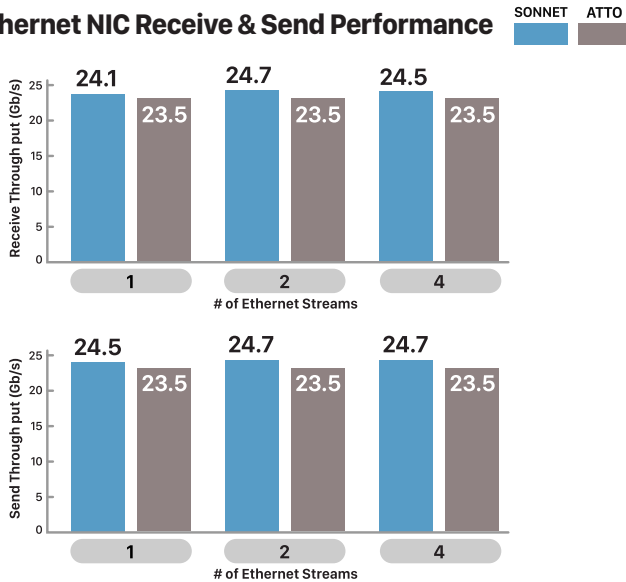


ATTO FastFrame 25Gb

## PERFORMANCE

**Sonnet Twin25G has a performance advantage over ATTO FastFrame N322** under light or heavy loads under macOS.

### Ethernet NIC Receive & Send Performance



Test setup: Twin25G NIC under test installed in a 2023 Mac Pro M2 Ultra running Sonoma 14.2 connected to a Linux Server running iPerf. MTU=9000.

ATTO performance from ATTO published benchmark also in 2023 Mac Pro. ATTO inexplicably used MTU=1500.

## FUTURE-PROOF DRIVER

The Sonnet macOS driver is built on DriverKit, whereas ATTO uses a Kernel Extension driver. At its 2019 Worldwide Developer Conference, Apple announced DriverKit which is the updated and modernized Software Development Kit for building drivers, and at the same time announced that Kernel Extension drivers would be deprecated. Support for Kernel Extension drivers are due to be retired with a future release of macOS. **Customers should choose Sonnet to be assured of future macOS compatibility.**

## EXCEPTIONAL VALUE

Exceptional performance plus future-proof driver, superior security, mature reliability, Thunderbolt upgradability, and more choices...whew! Who offers the better value? You decide...

## SECURITY

Enterprise and government customers, for whom security is paramount (but also any customers who value security), should choose Sonnet. Closing the macOS Kernel to attack vectors from bad actors is a significant advancement for macOS security. **The Sonnet Twin25G driver allows customers to maintain the highest security level for macOS.** Conversely, to allow the ATTO Kernel Extensions to load, a user must apprehensively downgrade the security settings for macOS.

## RELIABILITY

**The Sonnet DriverKit driver has already been deployed in thousands of networks and is mature and reliable.** If and when ATTO releases a DriverKit driver, it will likely initially be beta.

## TB UPGRADABILITY

**Sonnet uses modular PCIe interface cards in its Twin25G (and Twin10G) Thunderbolt Adapters.** This means that a customer will be able to upgrade a 40Gb Thunderbolt 3 Adapter to an 80Gb Thunderbolt 5 Adapter by simply swapping the Thunderbolt interface card; and/or a customer can upgrade a Twin10G to a Twin25G by simply swapping the Ethernet card. Unfortunately, the ATTO Thunderbolt Adapters are closed boxes and not upgradable.

## MORE CHOICES

**Sonnet also offers a complete lineup of client network adapters,** including Twin10G, Twin10G SFP28, Solo10G, Solo10G SFP+, Solo2.5G, and AVB GbE, available in PCIe cards, buspowered Thunderbolt adapters, and/or upgradable wall-powered Thunderbolt adapters. ATTO neither offers bus-powered Thunderbolt adapters, nor 2.5GbE adapters, nor AVB Ethernet adapters, nor upgradeable Thunderbolt adapters.

Sonnet Technologies

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