



# Exegy Exchange Connect

» *speed, power, functionality*

The need for speed for traders in financial markets is obvious. For well over a hundred years, traders have exploited the latest technologies — from the Exchange Telegraph to the telephone and eventually the computer. And since 1998 exchanges around the world have demutualized and upgraded their technologies to progressively compete with each other and with alternative trading systems. It is now imperative for exchanges to be able to cultivate the fastest possible turn-around times in order to attract High Frequency Trading traffic, since liquidity begets liquidity. Until recently only a few traders and applications have been able to enjoy the benefits of receiving updates in microseconds. However, the latest addition to the Exegy Ticker Plant family — Exegy Exchange Connect — brings **microsecond latency** to exchanges. On the inbound side the exchange can be extremely cognizant of competitive pricing and offer services within their colocation nexus to resident trading firms. On the outbound side, the exchange can connect hundreds of applications simultaneously to the low latency system. Overall, this is a revolutionary step forward for execution venues who need to focus on speed.

## Exegy Exchange Connect delivers:

- » **Power:** All North American Exchanges with headroom to spare
- » **Speed:** Hardware-accelerated ultra-low latency
- » **Consistency:** Minimal jitter
- » **Depth:** Viewing not just the BBO, but also order book and price view market depth
- » **TCO:** Operating from a single 19-inch, rack-mountable 2U appliance
- » **Scaling:** Hundreds of connections for downstream applications

### Introducing the Exegy Exchange Connect

The Exegy Ticker Plant is the first hardware-accelerated appliance specifically designed for market data from the ground up. Exegy Exchange Connect is an exciting new member of the Exegy Ticker Plant family, specifically designed for the exchange.

## Inside the Box

The Exegy Exchange Connect includes the Virtual Order Book (VOB), as does its Ticker Plant forebear. The VOB converges the best order book prices from all venues. It is extremely fast and constantly assures the best view of the electronic market. There are also applications that facilitate the creation of an internal exchange BBO:

- Real-time “Away-BBO” calculations
- Real-time “Protected Market” views

## An Entirely New Way to Compute

As market data rates continue to explode, processor speeds are falling behind. Despite the continued applicability of Moore’s Law, a defining principle for the semiconductor industry since 1965, conventional micro-processors alone can no longer keep up with current market data demands. The average latency and minimal jitter of the Exegy Exchange Connect is largely independent of the message rate. As message rates continue to skyrocket in the future, there will be very little increase in lag — the average latency inherent in the application will remain almost constant.

## Outside the Box

The average latency of Exegy Exchange Connect is measured end-to-end, which is from the inbound feed before it hits the appliance to the receipt of the data on a client machine. The Exegy Exchange Connect permits a greater degree of distribution, with a hundred connections using hardware acceleration at microsecond latencies.

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*Patent Statement: The Exegy Ticker Plant is protected in part by the following patents: US 6,711,558; US 7,139,743; US 7,181,437; and US 7,552,107. Other patents pending.*

## System Specifications

### Forward Compatibility:

The C-based API is currently available for the following operating systems:

- » **Windows:** 32 or 64 bit. Windows XP and Windows 2003 R2 Server.
- » **Linux:** 64 bit only. Red Hat Enterprise Linux 4/5 or SuSE Linux Enterprise Server 10SP1.
- » Exegy can also customize the API for other operating systems

### Connectivity and Integration:

The Exegy appliance supports a variety of network interconnects, including:

- » For Exchange Feeds a choice of:
  - Four 1 Gig Ethernet RJ-45 interfaces
  - Two 10 Gig Ethernet SFP+ interfaces
- » Multiple 10/100/1000BaseT RJ-45 Ethernet interfaces for management and monitoring support
- » Two 10G Ethernet with SFP+ connectors

### Technical Specifications

#### Exegy Ticker Plant

- » 2U Form Factor
- » 445x89x762 mm (17.5 x 3.5 x 30 in)
- » 27 kg (60 lbs)

#### Power & Heat Dissipation

- » 110~220 VAC auto-sensing
- » 900 Watts Max
- » 825 Watts Idle

#### Temperature & Cooling

- » Operating: 10°C-25°C
- » Storage: 70°C max

For more information, contact us at 877.247.5534, or email [sales@exegy.com](mailto:sales@exegy.com).

[www.exegy.com](http://www.exegy.com)