



**4<sup>th</sup> Generation Platform**  
**Scale – Latency - Versatility**

STAC - Fall Summits 2018  
Chicago, New York, London

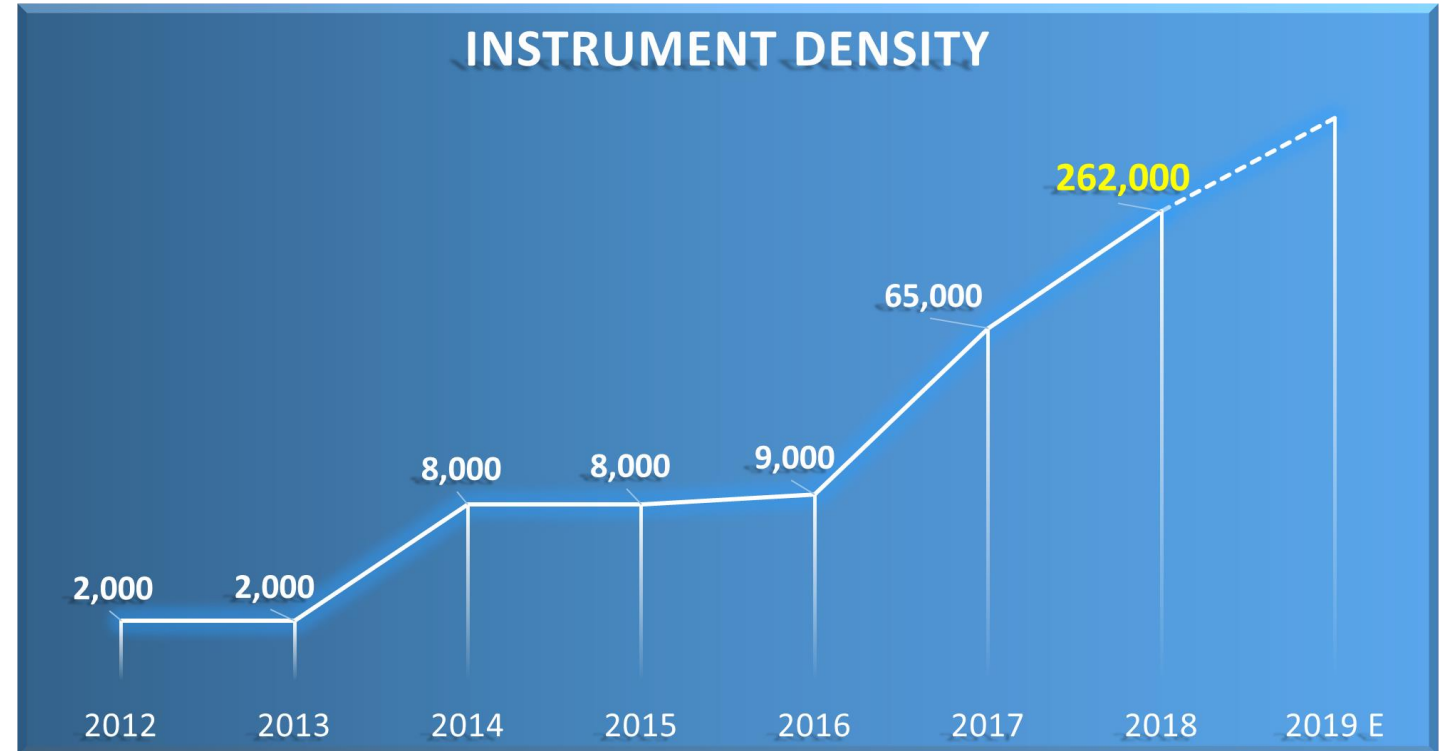
# SCALE

**Biggest UltraScale+ FPGA**

**Biggest QDR Memories**

**Custom hardware design**

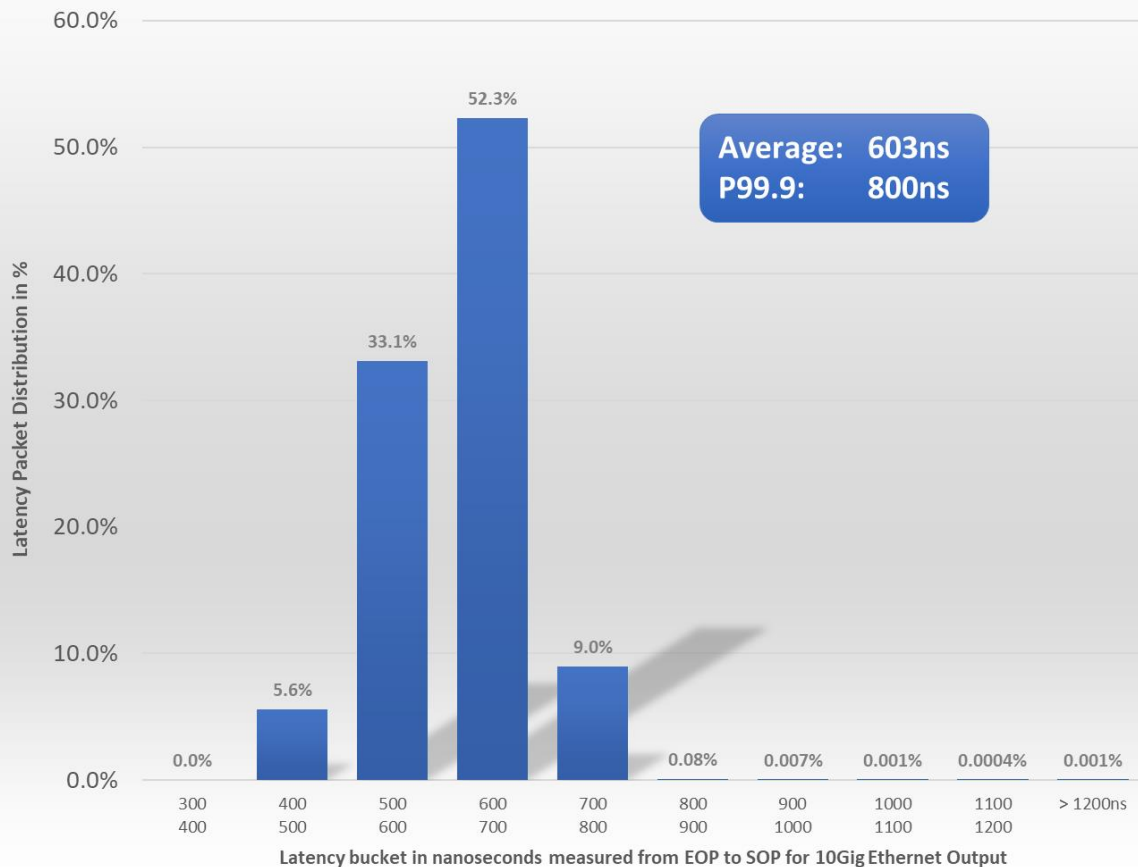
**Massive I/Os**



# LATENCY

## US Equities in a Box (single 2U NovaTick Appliance)

Book Building - Entire instrument universe for  
Nasdaq, BX, PSX, BZX, BYX, EDGX, EDGA, NYSE, ARCA, NYSE American



## US Equity: 20% improvement

603ns average

800ns at p99.9

## CME: 30% improvement

450ns average

800ns at p99.9

Not STAC Benchmark

# VERSATILITY

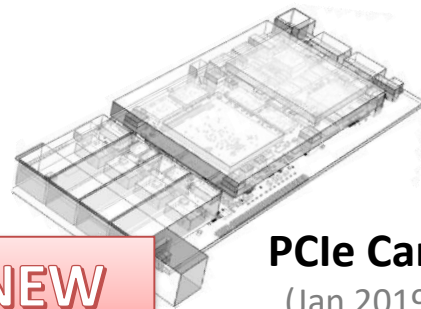
**2 hardware  
form factors**



**Appliance**

**Ideal for:**

- Enterprise deployments
- Full US Equity deployments
- Large number of trading servers



**NEW**

**PCIe Card**  
(Jan 2019)

**Ideal for:**

- Cost efficient low TCO deployments
- Small number of trading servers
- Tick to trade implementations

# AND STILL...

- **60 feed global coverage and counting**
- **L1 book, L2 book and L3 book consumption options**
- **All the expected robustness features:**  
Recovery, retransmission, snapshot, A/B arbitration
- **NovaSparks Wire Format**  
for the tightest integration
- **NovaSparks API**  
for the quickest integration
- **PTP Time stamping**
- **Microwave Shaped and Conflated Output**
- **NovaLink and Tick to Trade Development platform with Solarflare**

*THANK YOU...*



**NOVATICK™**

*Contact: [sales@novasparks.com](mailto:sales@novasparks.com)*