



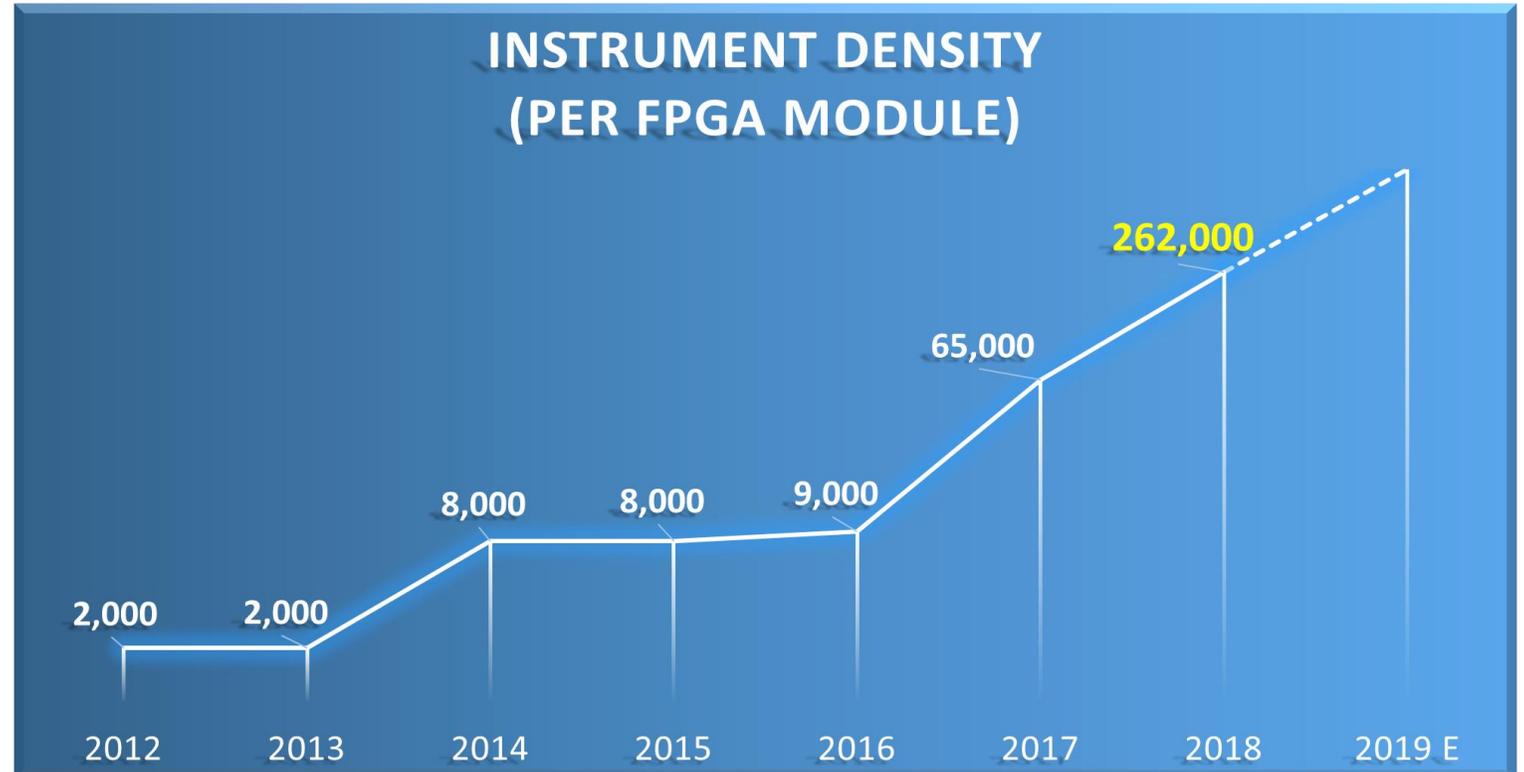
4th Generation Platform

Scalability – Performance - Versatility

STAC - Fall Summits 2018
Chicago, New York, London

SCALABILITY

- Biggest FPGA (Xilinx UltraScale+)
- Biggest QDR Memories
- Custom Hardware Design
- Massive I/Os

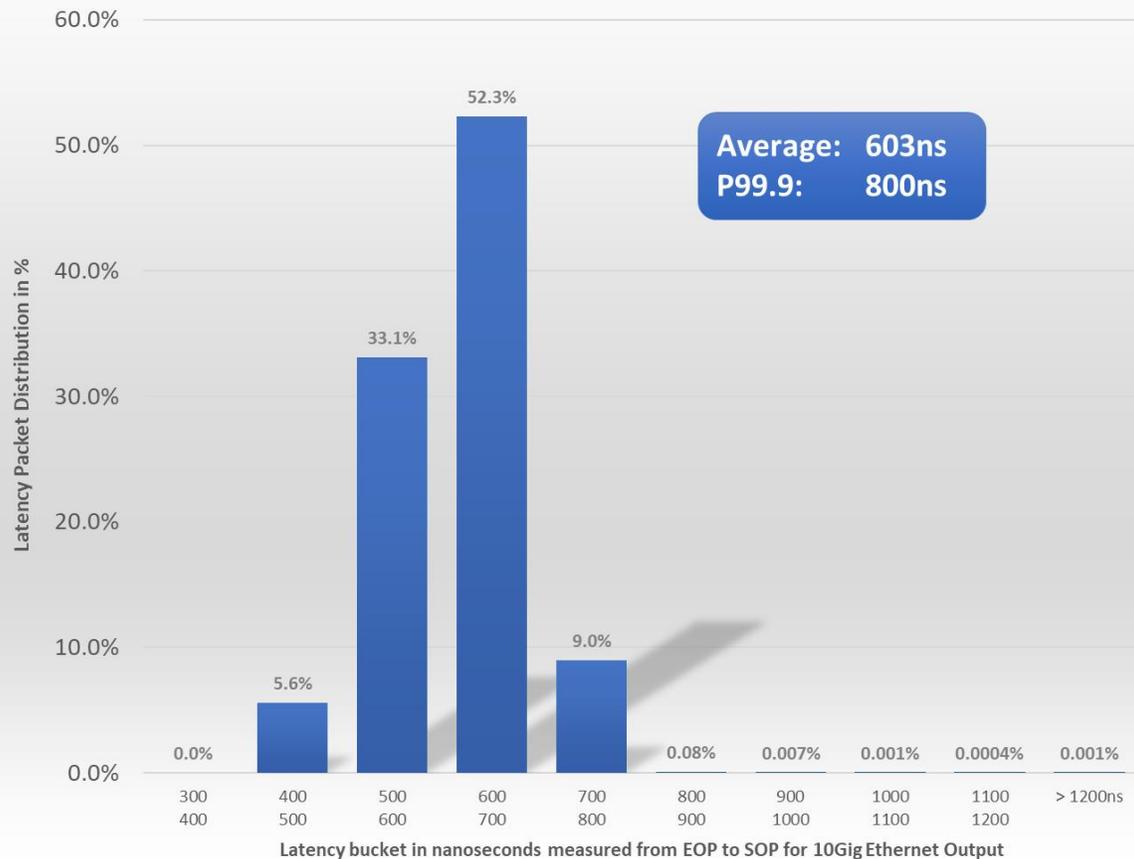


Enabler for Options and Consolidated Markets

PERFORMANCE

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

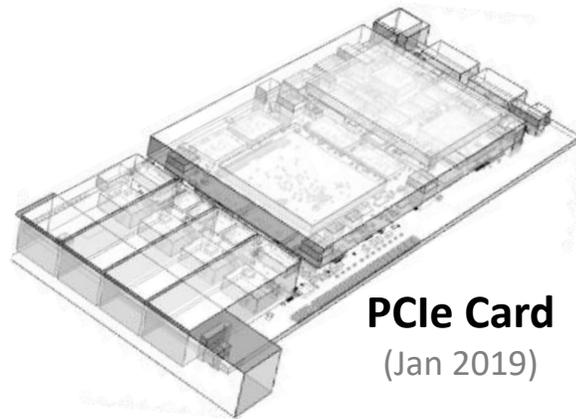
2 Hardware Form Factors



Appliance

Ideal for:

- Enterprise deployments
- Full US Equity deployments
- Large number of trading servers
- Multiple market data use



PCIe Card
(Jan 2019)

Ideal for:

- Low TCO deployments
- Single Feed Markets
- Small number of trading servers
- Full Tick to trade on FPGA

AND STILL...

- **60 Feed global coverage and counting**
- **L1 book, L2 book and L3 book consumption options**
- **All expected reliability 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