



Algo-Logic / ePOP Delivering Fast Time-To-First Trade with FPGA Acceleration

Algo-Logic Systems, Inc. STAC Chicago Fall 2022

Algo-Logic Systems Inc.

Algo-Logic Offerings, Products, and Customer Profiles

Complete FPGA accelerated solution

Development Framework

Complete Integrated Solution

Market Data Tick-To-Trade Pre-Trade Risk Check **Data Analytics**

Multinational Investment Banks

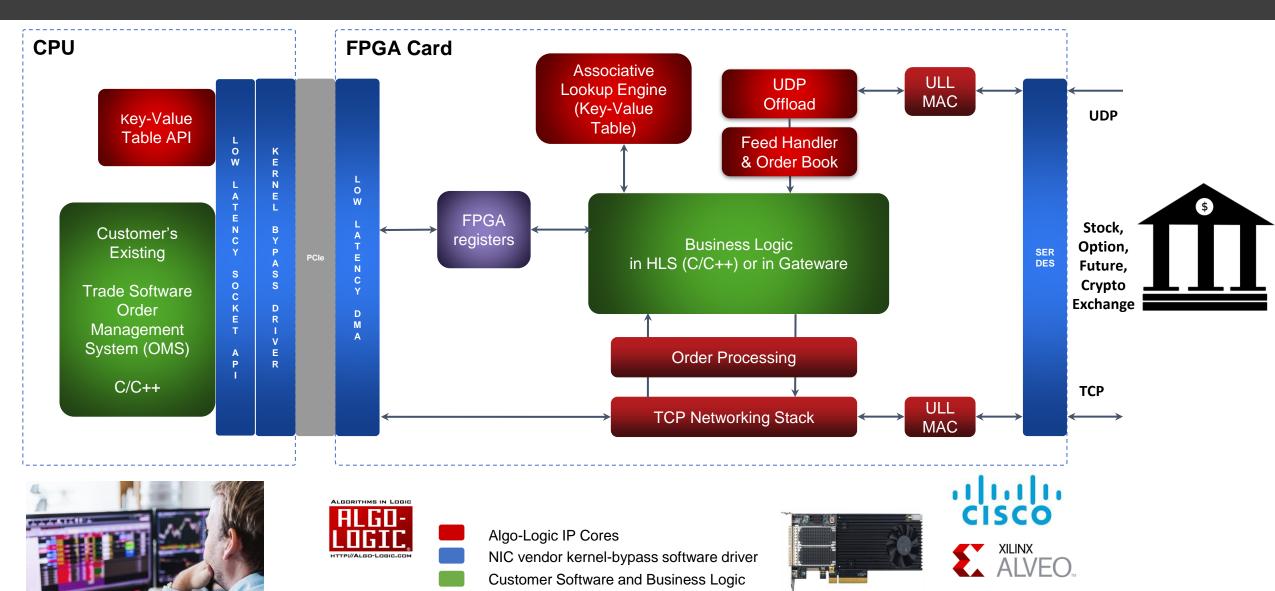
Proprietary Trading Firms

Independent Software Vendor (ISV)

Exchanges

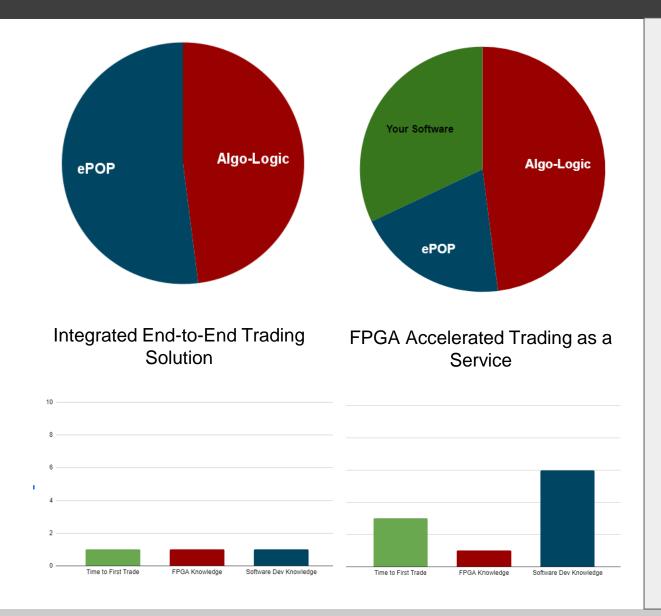


Algo-Logic Framework for FPGA-Accelerated Trading



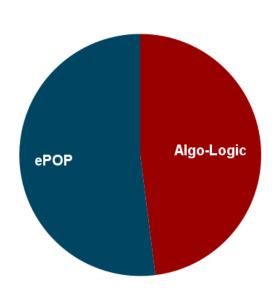
intel

Algo-Logic / ePOP Customer Engagement Alternatives

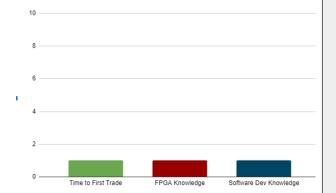




Algo-Logic / ePOP End-to-End Trading Solution



Integrated End-to-End Trading Solution



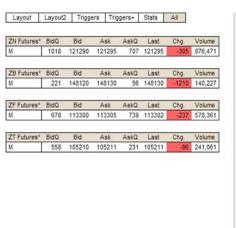
- Very fast Time to First Trade
 - Typical will be <1 week for an established Trading Firm and may be as low as 1-2 days
- No FPGA Knowledge Required
 - Any hardware changes required will be executed by Algo-Logic and FB Lab
- No OMS (Order Management Software) Knowledge Required
 - OMS software will be ePOP which was developed by FB Lab



Integrated End-to-End Solution

- Ultra-Low Latency Trading System with Electronic Eye, Auto-Hedge, Auto-Quote, and Contingent Offers
- Easy and fast path to bring FPGA Acceleration into your Trading environment
 - Can be used for Algorithmic Trading as well as Point-and-Click execution
 - Includes ability for FCMs to directly manage risk
- No development effort required to begin trading
 - Customization to optimize for your proprietary trading strategies available
- One monthly invoice for everything
 - Co-Location charges, charges to access ePOP OMS, charges for FPGA Acceleration
- Low Cost 30 day Evaluation Program for a Try and Buy

ePOP Software



Active Trigger Instances



SKEW

Bid Size Ask Size

* ZB M

148210

148200

148190

148180

148170

FUTURES

GRAPHS | SETTINGS |

GREEKS

0.8224

0.8223

0.8222

0.8221

0.8220

SHEETS

Bid Size Ask Size

5

10

25

50

100

500

Clear

□ Divide

ZN M / ZB M

SUMMARY

2

10

25

MINIMIZE

CONTRACTS | SPREADS | TRADES | POSITION

2

10

25

-21 @ 3 (+0.5) 121295

-1 @ 121295

OPTIONS (1) OPTIONS (2) OPTIONS (3) CUSTOM

Bid Size Ask Size

122015

122010

122005

122000

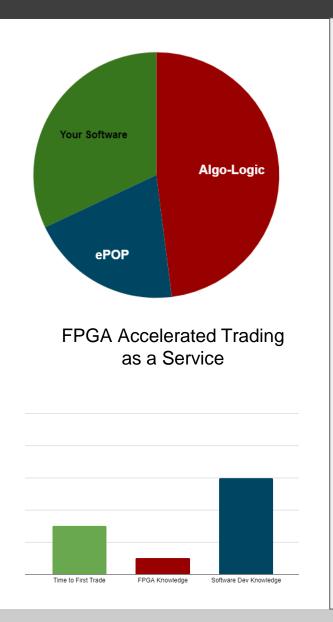
121315

08:13:40 "ZN W1 121.5 Put

08:13:40 ZN M

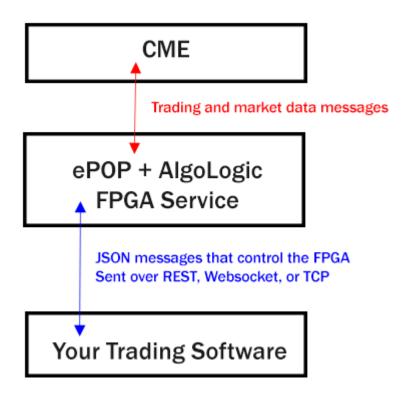
Algo-Logic / ePOP FPGA as a Service

- Time to First Trade will typically be < 1 month
 - In some cases will be as low as 1 week
- No FPGA Knowledge Required
 - Any hardware changes required will be executed by Algo-Logic and FB Lab
- Knowledge of Proprietary Software will be required
 - Need to redirect calls to ePOP APIs





Controlling the FPGA



REST

- Allows Client to load triggers and request open orders using curl or system calls.
- Requires least amount of development time/expertise

Websockets

 Allows Client software to establish a persistent connection to the FPGA service to load triggers and request open order requests

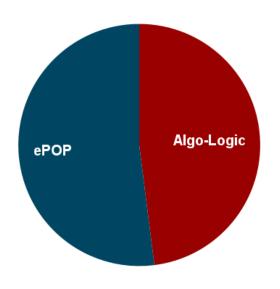
TCP

- Allows Client software to add triggers and and to request open orders using simple TCP connections similar to standard TCP FIX
- This method is ideal for integration directly into existing trading platform or tools

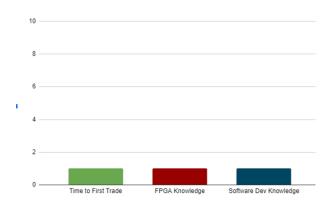
FPGA as a Service

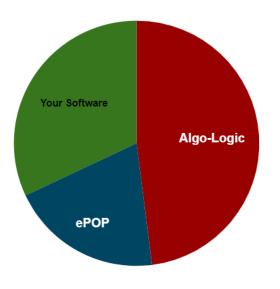
- Simple Integration with your existing Trading Applications
- Easy transition for your Traders because the User Interface is the same
- Fast Time to First Trade system integration can be completed in less than a month

Algo-Logic / ePOP Customer Engagement Alternatives

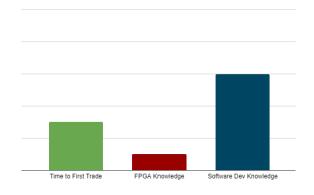


Integrated End-to-End Trading Solution





FPGA Accelerated Trading as a Service





Client View of the Value of FPGA Acceleration?

Client compare two trading systems:

- Software only, vs.
- Software plus Algo-Logic FPGA Acceleration

Results

- Software system hit intended Hedge 53% of the time, while
- FPGA Accelerated system hit 95% of the time.

With FPGA Acceleration

- Hit ratio on hedge improved 2:1
- And used more often and with larger quantities



Conclusions: Algo-Logic Offers Ultra-Low-Latency

Algo-Logic:

- Delivers innovative FPGA based accelerated solution for financial trading
- With FB Lab's ePOP software we provide complete, FPGA accelerated Tick-to-Trade solution
- With our End-to-End and FPGA as a Service approaches we provide a very fast path to integrate FPGA acceleration into your trades
- Call or email us and ask about our low cost 30 day evaluation



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