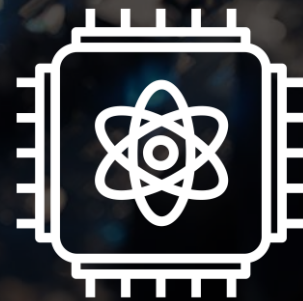


TELESOFT – London STAC Summit, May 2024

Maximising Efficiency: Trade Cycle Optimisation



ABOUT TELESOFT



HIGH RATE, ULTRA-LOW LATENCY PLATFORM



HARDWARE CAPABILITIES



Altera Agilex FPGA Accelerator

Delivering deterministic performance by accelerating multi-market data processing



Precision Time Protocol (PTP)

Ensuring accurate time synchronisation to nanosecond resolution



AI + ML Data Processing

Increasing processing efficiency by integrating established AI & ML models to spare FPGA resource



ARM Cortex-A53 Real-Time Processor

Ensuring unparalleled execution on trade orders, risk management, and compliance checks



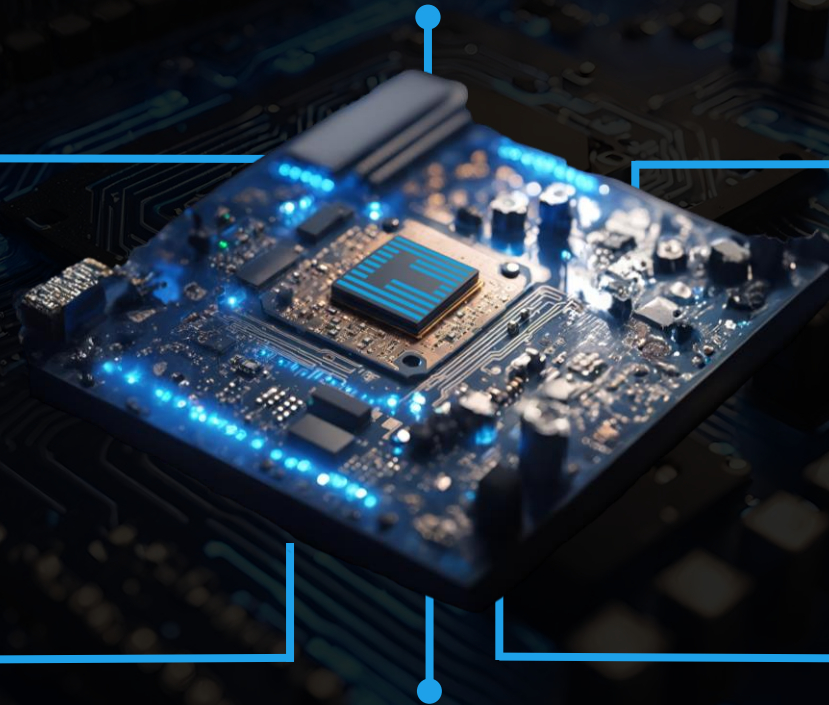
Quantum Random Number Generator (QRNG) Chip

Utilising QRNG to enhance network security and encryption key generation



Inter-Card Connectivity

PCIe gen5 x16 & CXL. All Ethernet standards up to 400GbE



APPLICATIONS

ALGORITHMIC TRADING

- Gain trading advantage by ingesting real-time market data into integrated AI & ML models

MARKET DATA PROCESSING

- Multi-Market, Single Device; Latency Not Impacted

REAL-TIME RISK ANALYSIS

- Calculate RISK on Single Appliance

NETWORK MONITORING

- Passive or Inline
- Nanosecond Visibility
- 1ms Microburst Analytics
- Gap Detection
- Latency Measurement
- Packet Capture

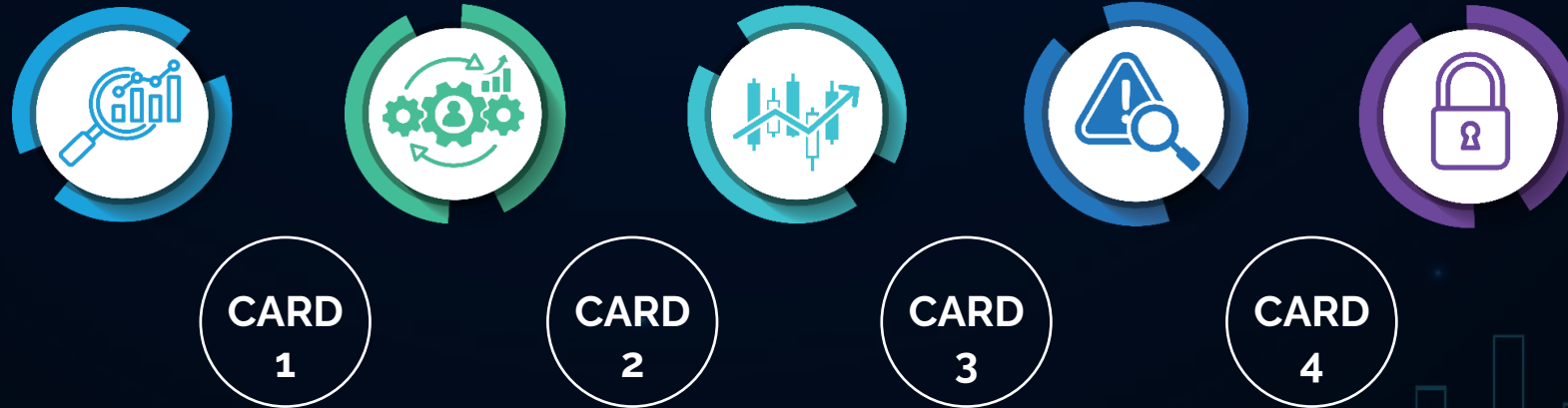
CYBER SECURITY

- HRoT (Hardware Root of Trust)
- Quantum Key Generation
- Secure Communication



SOLUTION

SINGLE APPLIANCE WITH THE UNIQUE ABILITY TO PROGRAM EACH CARD WITH THE CAPABILITY YOU WANT, WHEN YOU WANT



32 x 100GbE
or
8 x 400GbE



Inter-Card Connectivity -
Ethernet / PCIe / CXL

CONSOLIDATE
INFRASTRUCTURE

REDUCE OPEX

MAXIMISE
EFFICIENCY

USE CASES

NETWORKS



- Route Optimisation
- Network Efficiency
- Consolidation
- Transparency
- Security

INFRASTRUCTURE



- Identify & Visualise Bottlenecks in Real-Time
- Optimise, Load Balance

MARKET DATA



- Trade Optimisation
- Never Miss a Packet
- Multi-Market Single Card
- Real-Time Analytics
- Distribution
- Reporting

TRADING



- Trade Cycle Optimisation
- Your Code, Your Chip
- Integration to AI & ML on a Single Appliance

CYBER SECURITY

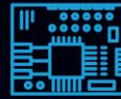


- Hardware Root of Trust (HROt)
- Onboard QRNG
- Real-Time Surveillance

SUMMARY



400GbE Processing
at Full Line Rate -
Zero Packet Drops



Advanced FPGA PCIe
Boards Designed &
Manufactured **In House**



Products Designed
Specifically with Nanosecond
Accuracy, Ultra-High Throughput
and Ultra-Low Latency



FPGA Design **SDK**
and Services

Quantum Resistant
Cryptography for
Securing Data Transfer



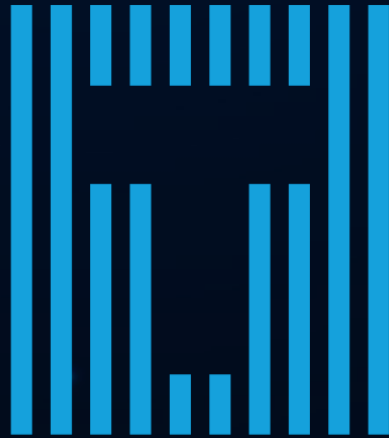
Trading **IPs** including
OPRA Engine @400Gbps



AI / ML FPGA Inferencing
Engine



Engineering Led Company,
Offering **Customer Focused**,
Tailored Solutions &
Intergrations



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