



A Leader in TCP Offload Technology & Products

**100G bps Full TCP & UDP Offload Technology (proposed)**

**Increase your TCP and UDP Network actual performance by up to 600%**

**Built around Proven and Mature TCP and UDP technology since 2009.**

**40G: In production. Performed Live demo of 40G at Super Computing 2015**

**Qualified on Altera/Intel and Xilinx. FPGA Subsystems Solutions available now**

**First company to implement and deliver Full TCP Stack in High performance FPGA in 2009.**

**Value:**

Government Network Equipment, Financial institutions in high frequency trading applications, Servers in data centers and data exchange applications require ultra low latency. Utilizing intilop's proven ~100 ns with Zero Jitter TCP and UDP Acceleration Technology, clients can achieve around 200 ns in 100G & 400 ns total latency in 40G and 10G NICs, Servers, switches and other leading edge enterprise.

100G TCP can deliver up to 9G byte/sec throughput per PHY port

40G TCP can deliver up to 7G byte/sec throughput per port... This is the 'Ultimate in application performance'

-Cloud service providers need very high bandwidth and CPU offloads to get the highest productivity from their data centers. Intilop's TCP and UDP technology supports up to 40/50Gb/s for data center efficiency and scalability.

Data centers deploying virtualized servers see higher demands on the I/O infrastructure. With support for 10/25/40/50/56/100Gb/s and up to 1024 virtual TCP – I/O machines, intilop's Technology can satisfy the bandwidth demands of a virtualized environment.

**Benefits:**

Industry-leading throughput and latency performance

Enabling I/O consolidation by supporting 1000s of TCP/IP and UDP I/O sessions over Ethernet transport protocols on a single Port

Improves productivity and efficiency and delivers highly granular levels of I/O services to applications in

High-availability and high-performance for data center networking

Software compatible with standard TCP/UDP/IP stacks

High performance Hardware and Firmware on advanced FPGA with no external memory provides very low power and high reliability

**Technology Key Features:**

- 100G bps Full TCP Offload, sustained rate
- 40G bps Full TCP Offload, sustained rate
- 40G bps Full UDP Offload, sustained rate
- 25G Full TCP and UDP
- Fastest TCP and UDP Acceleration
- 1024 Concurrent TCP & UDP Sessions
- 10G TCP & UDP & IGMP with up to 16K Sessions shipping for several years.
- ~7 -- 9 G byte/s Data transfer in full duplex mode
- Working Out of the Box Development Kits
- 16K and 64K Sess. TCP and UDP available

**Target Applications**

- High end Government and University Servers/unified network appliances.
- High End Network security Appliances.
- Web 2.0 data centers.
- Cloud computing
- Low latency financial services
- Network Storage equipment
- HPC Data center
- I/O consolidation (single unified wire for networking, storage and clustering)
- Video streaming applications
- Enterprise data center applications
- Accelerating back-up and restore applications