



# New Multiplexer Maintains Flexibility Yet Doubles Network Speed

*Exablaze FastMux reduces aggregation latency to a minimum of 49 nanoseconds (ns): close to twice the speed offered by the previous generation of multiplexers.*

SYDNEY, NSW, AUSTRALIA, May 4, 2017 /EINPresswire.com/ -- Exablaze [FastMux](#) is a new addition to the ExaLINK Fusion product family, which reduces aggregation latency to a minimum of 49 nanoseconds (ns). That's close to twice the speed offered by the previous generation of multiplexers. 'We could have achieved even higher speeds by disabling the multiplexer's crosspoint' explains Exablaze chairman Dr Greg Robinson, 'but we weren't prepared to sacrifice critical features our users need. That makes the ExaLINK FastMux the most flexible aggregation product on the market.'

FastMux allows 15 connections to be aggregated into a single upstream port, such as a long-haul link, with virtually identical latency for all 15 ports. And, since the ports are crosspoint-enabled, they support essential layer 1 mode features such as tapping for data-logging, patching for failover, and packet counters and signal quality statistics for link monitoring. The ExaLINK Fusion platform has three line card bays for a maximum of 48 ports in total.

ExaLINK FastMux is an option with all new ExaLINK Fusion orders and a free-of-charge firmware upgrade for Exablaze customers who have current support contracts. 'Our cutting edge approach to low latency network design gives users high-value, flexible options for achieving greater performance on their existing hardware,' says Robinson. 'That's the reason companies choose Exablaze.'

High Frequency Trading (HFT) is an obvious market for the ExaLINK FastMux, as traders are always looking for the fastest hardware to beat competitors to vital market intelligence. The competition between makers of Network Interface Cards (NICs) and switches is just as fierce, with vendors pushing the limits of networking technology to close to the speed of light.

Performance figures are of limited value without knowing the conditions or measurement technology vendors used. That's why ExaLINK Fusion FastMux product and firmware upgrade ship with a performance verification report that shows the configuration used for testing, and the latency distribution of all ports. The report was generated using Exablaze's High Precision Timing network capture technology, ExaNIC HPT, which provides 0.25ns (250 picosecond) network measurement resolution.

The FastMux performance report provides a best case latency of 48.79ns, an average case latency of 53.79ns, and a worst case latency of 58.79ns. These latencies vary by less than 1.00ns between ports, regardless of the number of ports in use, so users can be confident of achieving this performance in real world deployments. ###

## ABOUT EXABLAZE

Exablaze designs and manufactures [Ultra-Low Latency](#) (ULL) network devices for Financial Traders, Big Data Analytics, High Performance Computing, Data Centres and Telcos. Exablaze is a leader in Field Programmable Gate Array (FPGA) technology. Its products play a crucial role in computing environments where performance is critical, from North America to Europe, Asia and Australia.

Dr Greg Robinson  
Exablaze

+61 3 8680 4950  
email us here

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