



MoSys, Inc.

Investor Overview

October 2015



Safe Harbor Statement

This presentation may contain forward-looking statements about MoSys, Inc. including, without limitation, benefits and performance expected from use of its embedded memory and interface technologies and ICs, improving operational efficiencies, the timing of product development and shipments of Bandwidth Engine® ICs, LineSpeed™ ICs, and line cards, anticipated benefits and performance expected from the Bandwidth Engine and LineSpeed products, and line cards, growth in the size of the market addressed by the Company's business and the Company's future markets and future business prospects. Forward-looking statements are based on certain assumptions and expectations of future events that are subject to risks and uncertainties. Actual results and trends may differ materially from historical results or those projected in any such forward-looking statements depending on a variety of factors. These factors include, but are not limited to the following:

- ❖ achieving additional design wins for our ICs;
- ❖ the timing of customer orders and product shipments;
- ❖ commencing volume shipments of ICs;
- ❖ our ability to enhance our existing proprietary technologies and develop new technologies;
- ❖ achieving necessary acceptance of our IC architecture and interface protocols by potential customers and their suppliers;
- ❖ difficulties and delays in the development, production, testing and marketing of our ICs;
- ❖ reliance on our manufacturing partners to assist successfully with the fabrication of our ICs;
- ❖ availability of quantities of ICs supplied by our manufacturing partners at a competitive cost;
- ❖ our lack of recent experience as a fabless semiconductor company making and selling proprietary ICs;
- ❖ level of intellectual property protection provided by our patents, the expenses and other consequences of litigation, including intellectual property infringement litigation, to which we may be or may become a party from time to time;
- ❖ vigor and growth of markets served by our licensees and customers and our operations; and

other risks identified in MoSys' most recent reports on form 10-K and form 10-Q filed with the Securities and Exchange Commission, as well as other reports that MoSys files from time to time with the Securities and Exchange Commission. MoSys undertakes no obligation to update publicly any forward-looking statement for any reason, except as required by law, even as new information becomes available or other events occur in the future.

Fabless semiconductor company enabling carrier, data center and enterprise OEMs to meet ever-increasing demand for intelligent bandwidth and faster data throughput



NASDAQ: MOSY
ISO 9001:2008 Certified
HQ: Santa Clara, CA
107 employees, 75% R&D

IC Product Families Enable Next-gen Equipment

- ❖ **Bandwidth Engine®** - *BE 1, 2, 3**: Highest memory access rate and intelligent offload for packet processing acceleration
- ❖ **LineSpeed™** - *Gearbox, Retimer, CDR*: High-performance PHYs for throughput and density

Target Market

- ❖ Networking and Cloud Hardware OEMs
- ❖ Sweet Spot: Carrier Ethernet, Core, Edge and Data Center

Customers

- ❖ 70+ BE and LineSpeed design wins with 15+ customers
- ❖ Wins in 40Gb to 1Tb line cards and systems in routers, metro Ethernet switches, wireless aggregation, optical systems, data center switches, security, load balancing, monitoring, broadcast Video

* BE3 just out of fab, production in 2016

Led by an Experienced Team



Len Perham
CEO

40+ Yrs Experience

- CEO of IDT, Incubated MoSys
- Former Chairman of NetLogic (acquired by Broadcom; exit >\$3B)
- Zilog, AMD, Western Digital

John Monson
VP Sales & Marketing



25+ Yrs Experience

- VP Mktg Mellanox
- VP Inphi & Scintera Networks
- VP Mktg PMC-Sierra
- AT&T, Lucent

Michael Miller
VP Sys. Applications



30+ Yrs Experience

- CTO IDT
- Over 25 Patents, including JTAG
- Architected QDR, ZBT, TCAMs

Tom Riordan
COO, EVP Engineering



30+ Yrs Experience

- CEO Exclara
- VP PMC-Sierra
- Founder & CEO, QED
- MIPS, Intel

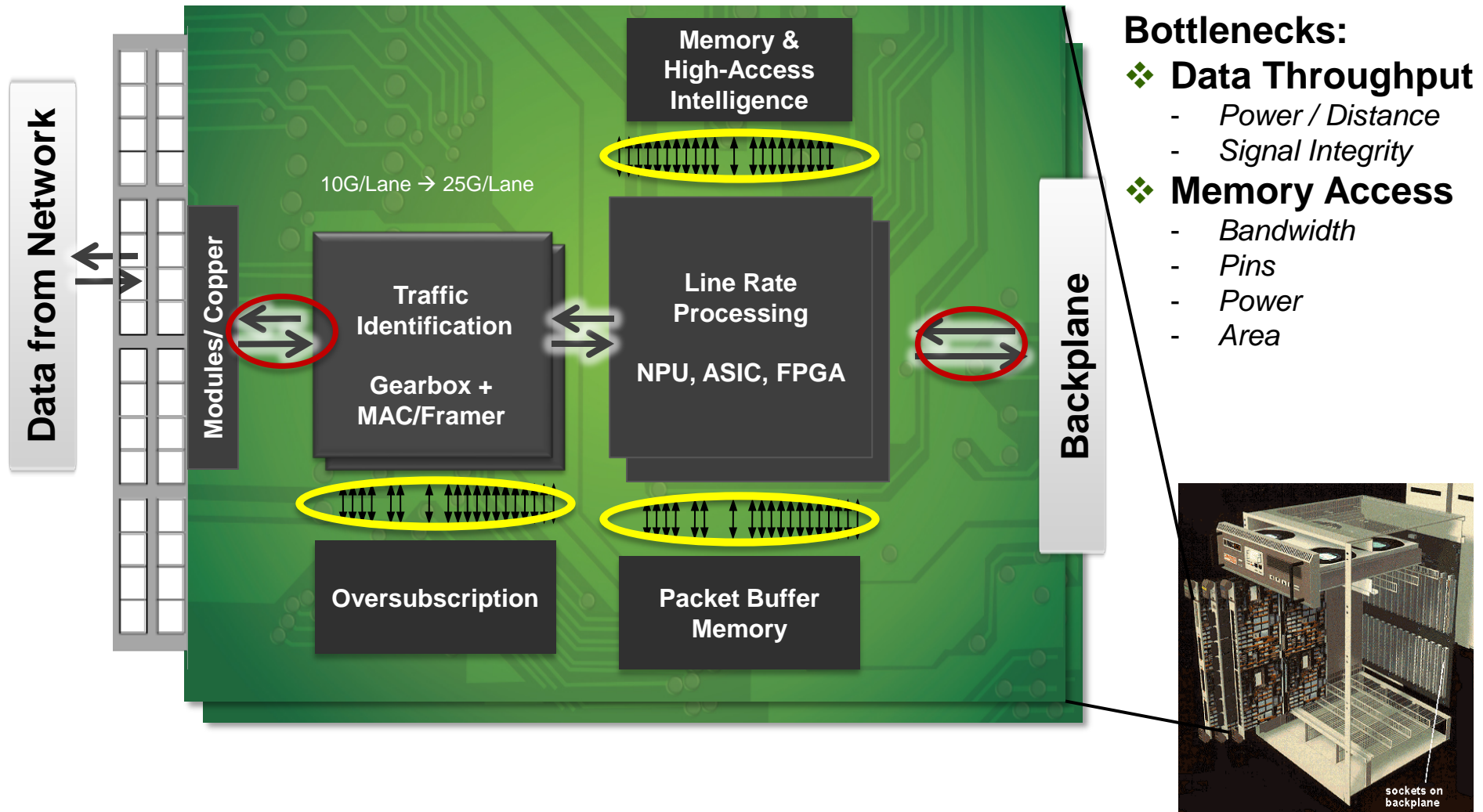
Jim Sullivan
CFO



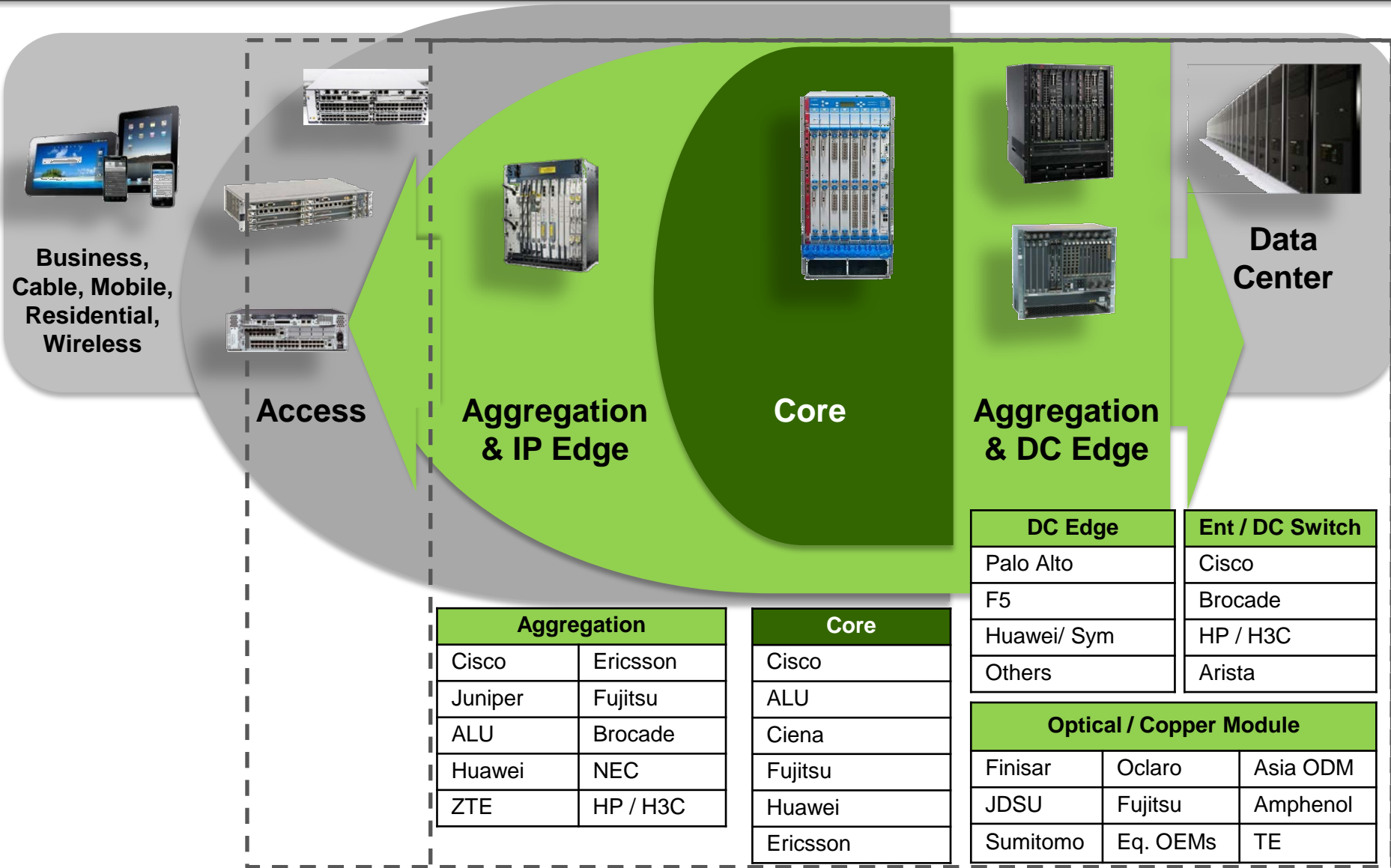
20+ Yrs Experience

- CFO Apptera
- CFO 8x8
- CFO Netergy Microelectronics

Legacy Solutions Can't Meet Requirements



Target Customers are Leading Networking System & Module OEMs



Products Address Industry Mega-trends

Service Provider

Core & Edge Routers, Metro Ethernet, Optical, Wireless Edge



- Intelligent Network Capacity
- Ethernet/Services
- Software Defined Networks
- Network Function Virtualization

Cloud

Data Center and Edge



- Big Data/Applications
- Mega Data Centers
- Security/Load Balancing
- Network Optimization

Networking Market Requirements

Density /
Capacity

Up to Terabit Line Cards

25GE/100GE

Data Processing

Intelligent Data Flow

Processor Offloads

Network
Features

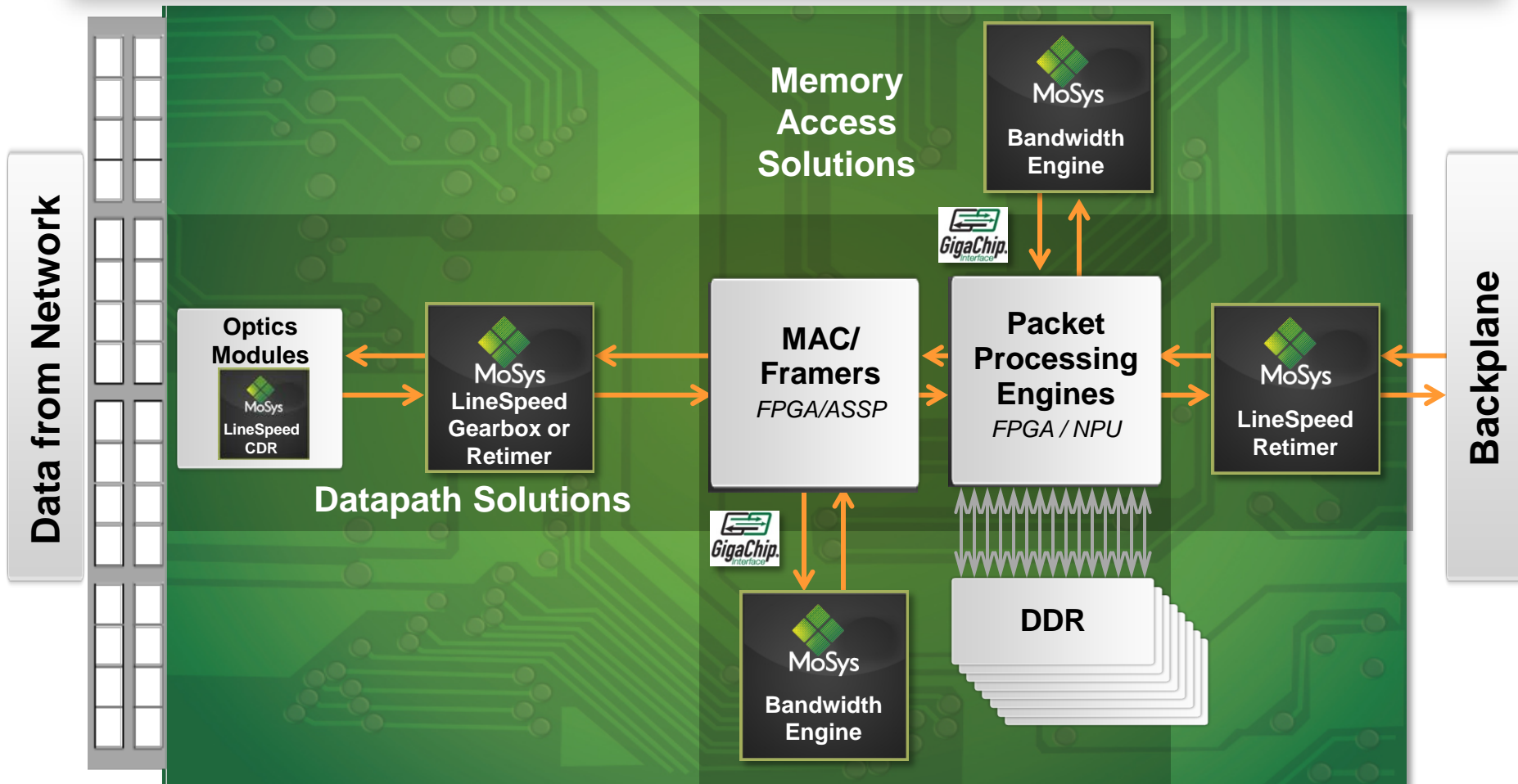
SDN, Service Level, Metering

Load Balancing, Security

Solving Customer Challenges

New Requirements at 100G+

Serial Offers Higher Performance with Reduced Area, Pin Count, Power and Cost



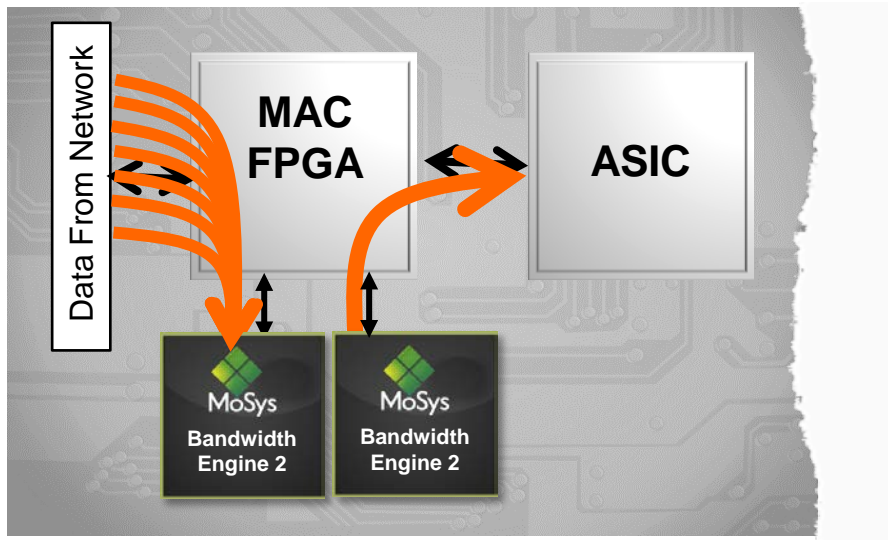
Broadening Application Examples

Bandwidth Engine Wins on Performance, Size, Pins, Power, Cost

Edge Router

400G Oversubscription

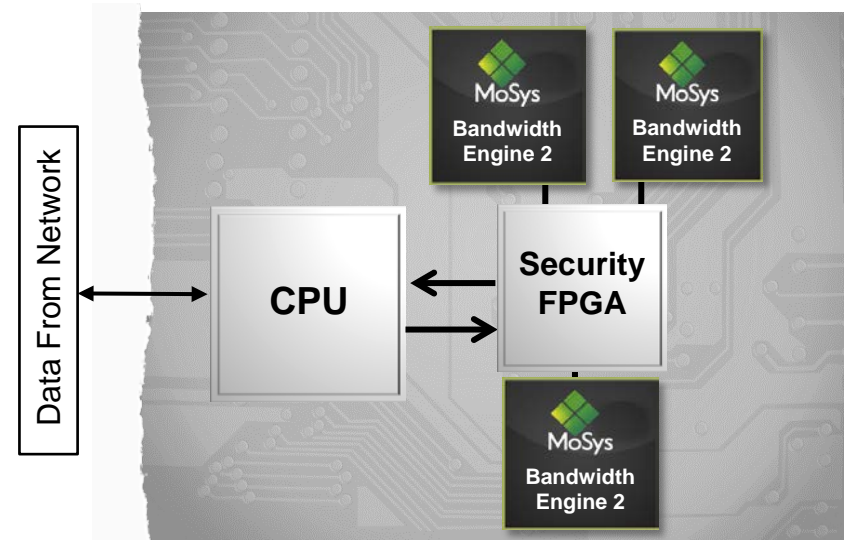
Traffic smoothing prevents dropped packets



Data Center Security

Security Acceleration

Threat Prevention – multiple lookup and buffering functions



Advantages vs Alternatives

- Memory access performance
- Lower - pin count, area, power, cost

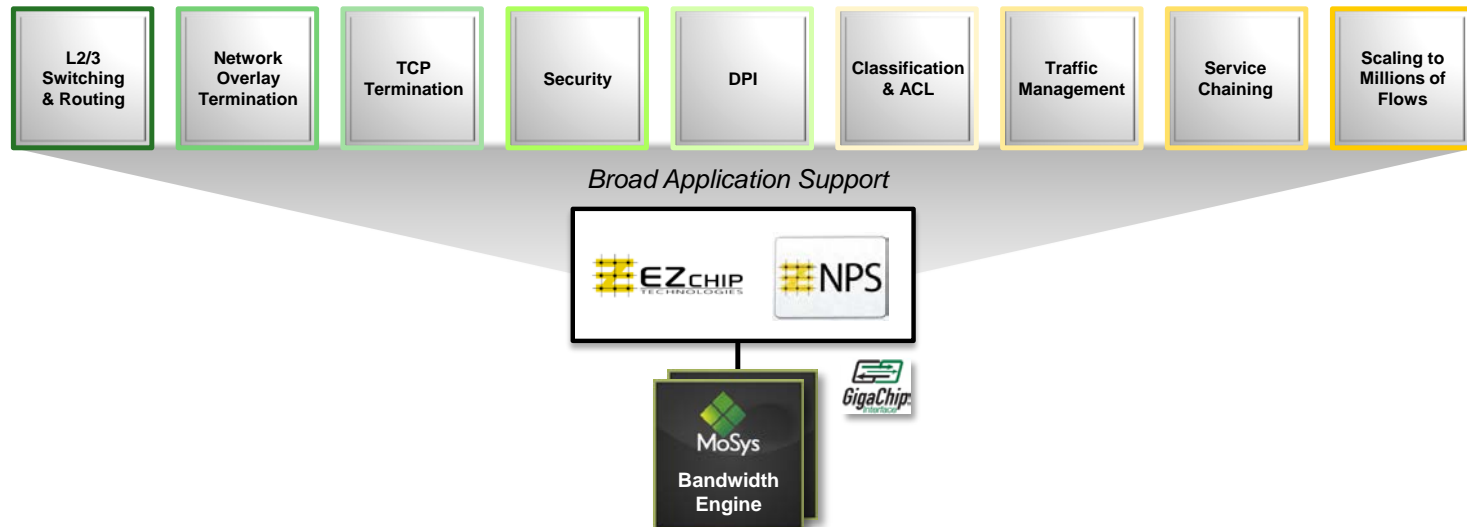
- Memory access performance
- RLDRAM won't fit or route

EZchip NPS to Leverage BE-Z30 for Performance and Features

- ❖ Recently announced collaboration with industry-leading merchant NPU supplier EZchip

"The two companies have architected a solution which uniquely delivers flexibility and scalability for our mutual networking customers..."

- Eli Fruchter, CEO of EZchip, Jan 27, 2015

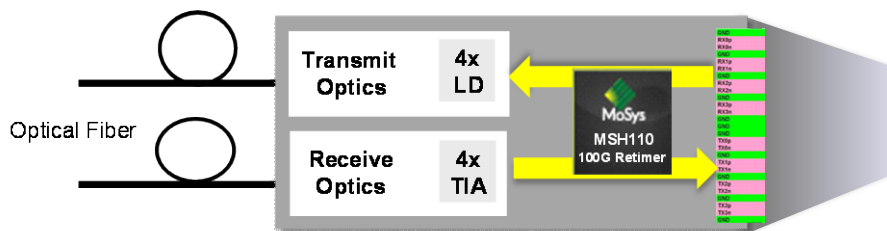
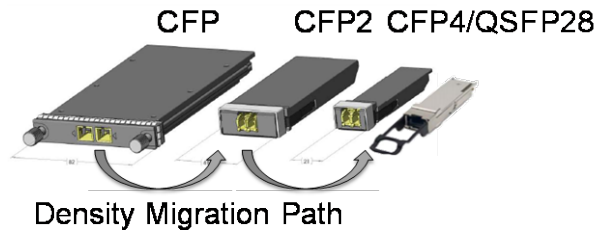


- ❖ Access to additional Tier 1 EZchip Carrier Ethernet customers
- ❖ Solution also applies to Data Center and Data Center Edge
- ❖ Broad application capability expands market opportunity

LineSpeed PHYs: Signal Integrity/Power/Density for 100G+

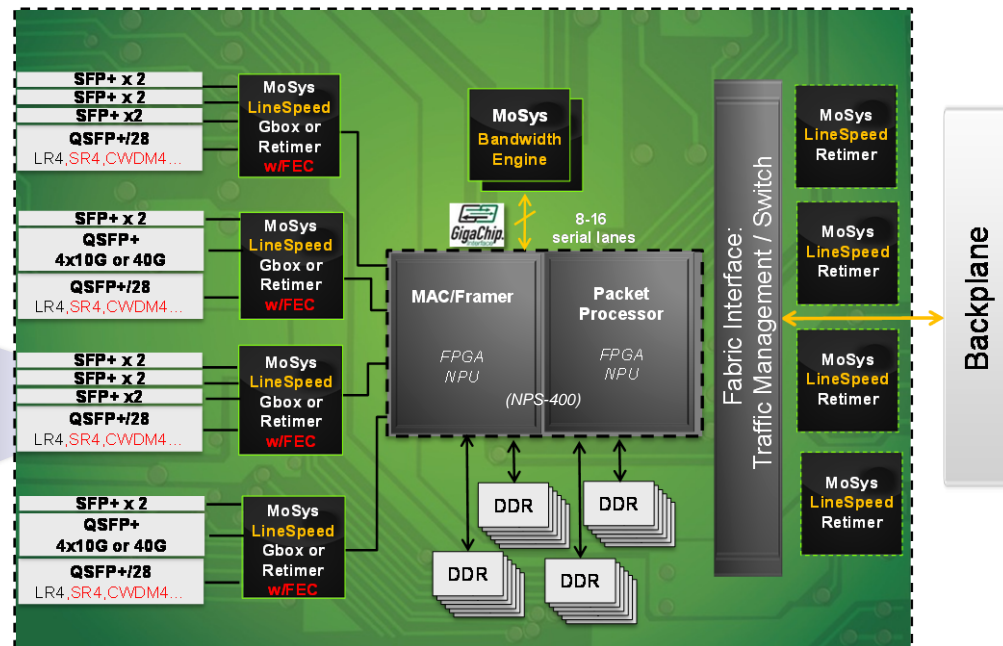
Signal Integrity for High Density 10, 25, 40 and 100G Interfaces

100G CFP and QSFP28 Module Applications

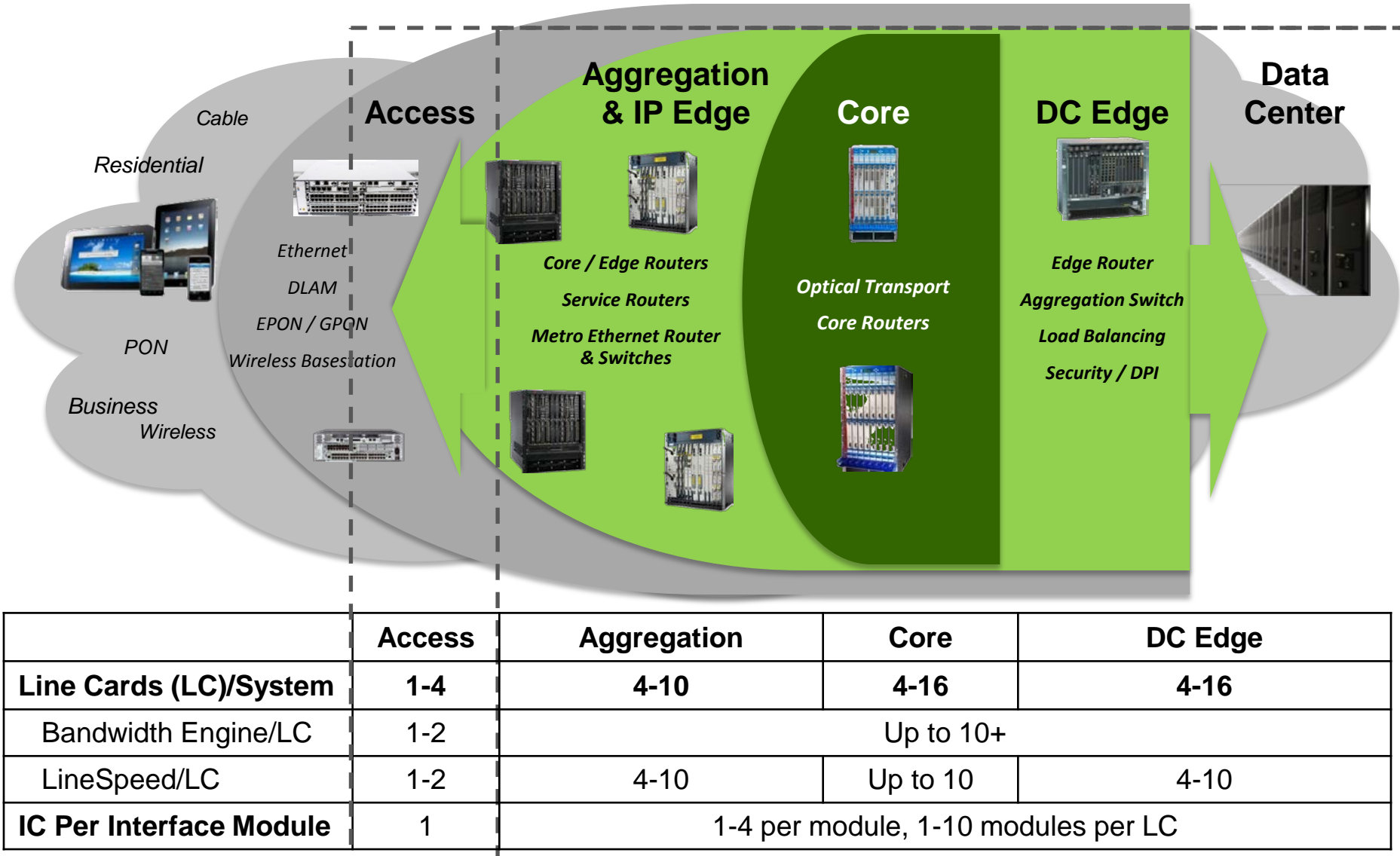


- Single Chip
- Small Size
- Performance
- Ease of Use

100G to 1Terabit Line Card Applications



Valuing the High-Volume Line Card Market



Opportunity Growth

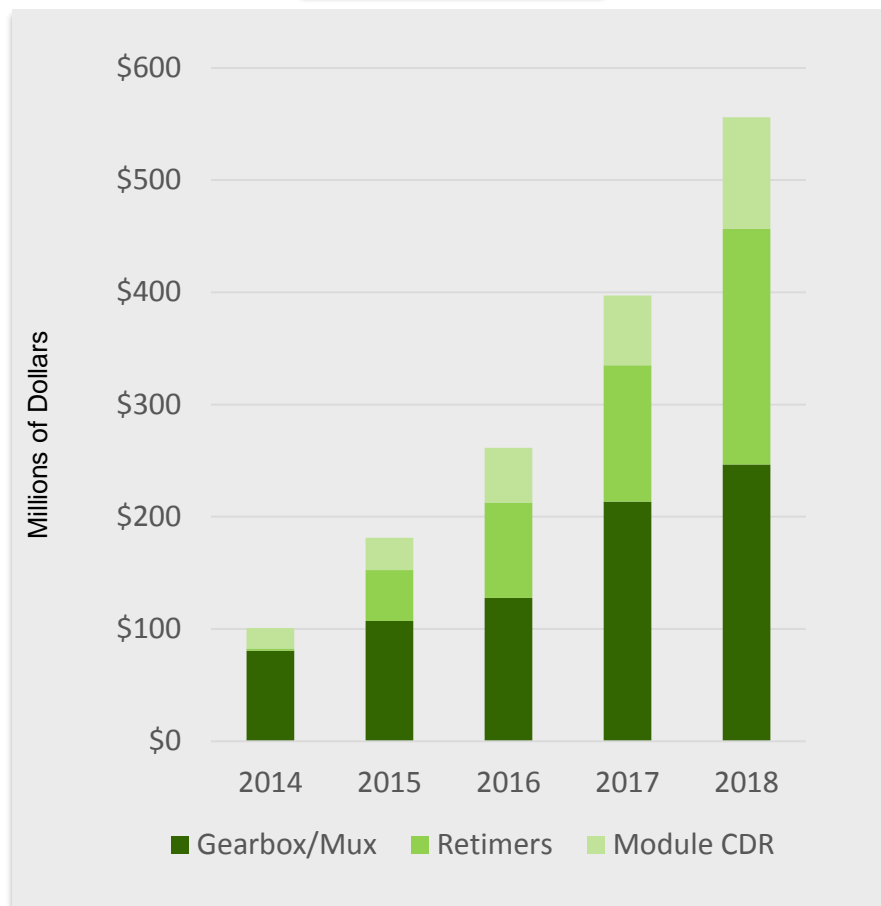
Driven by Increased Network Capacity & New Applications

>\$1.5B Market Opportunity

Bandwidth Engine - SAM



LineSpeed - SAM



Product Trends Indicative of Future Growth

❖ Barriers to Adoption Reduced

- Serial Technology Proven
- BE Dual Sourcing Relationship
GSI Technology
- Industry-Leading Partners
Xilinx, EZchip, Altera

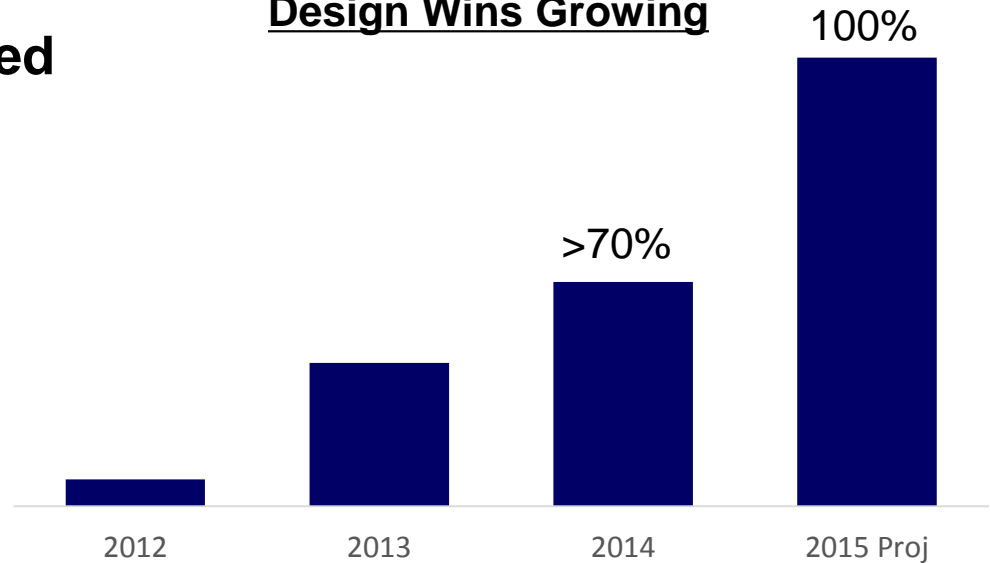
❖ Design Win Momentum

- 70+ Wins (cumulative)
- 15+ Customers
- Repeat Footprints

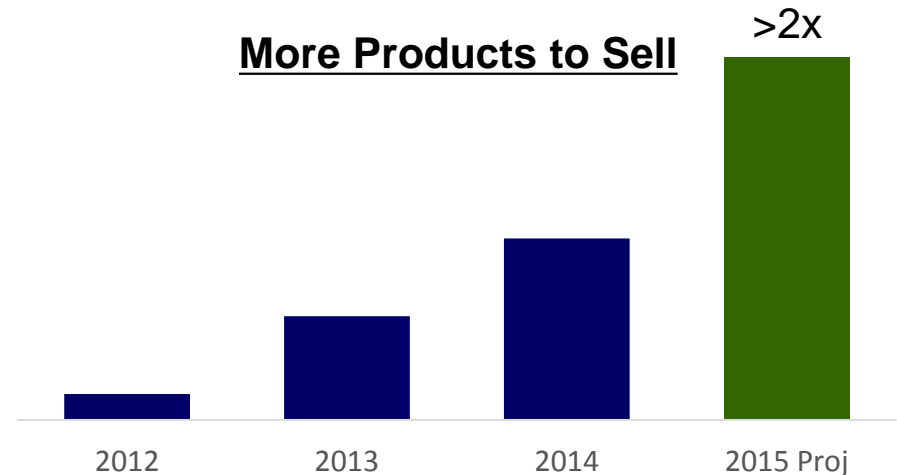
❖ Adding Synergistic Products

- Bandwidth Engine 3 family
- LineSpeed Flex 28nm PHY family

Design Wins Growing



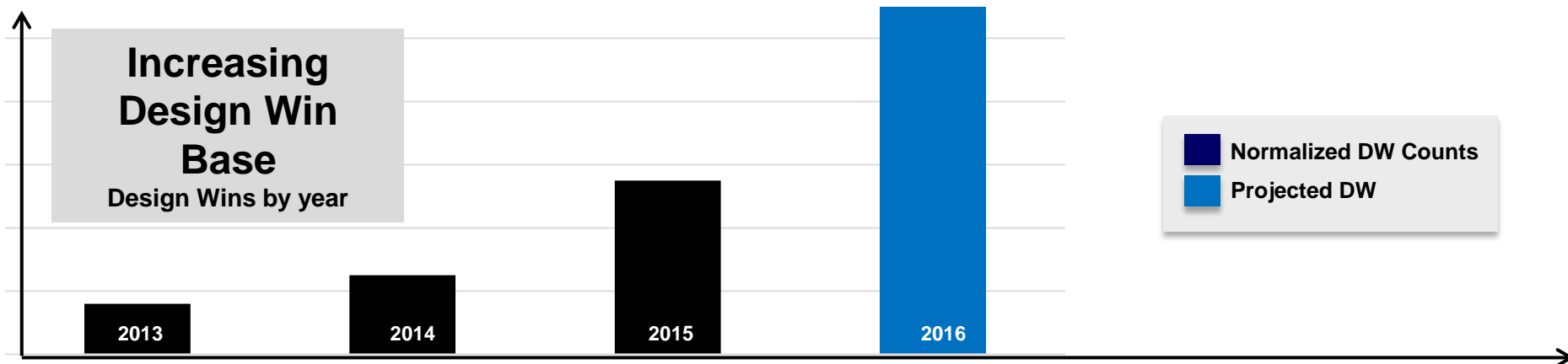
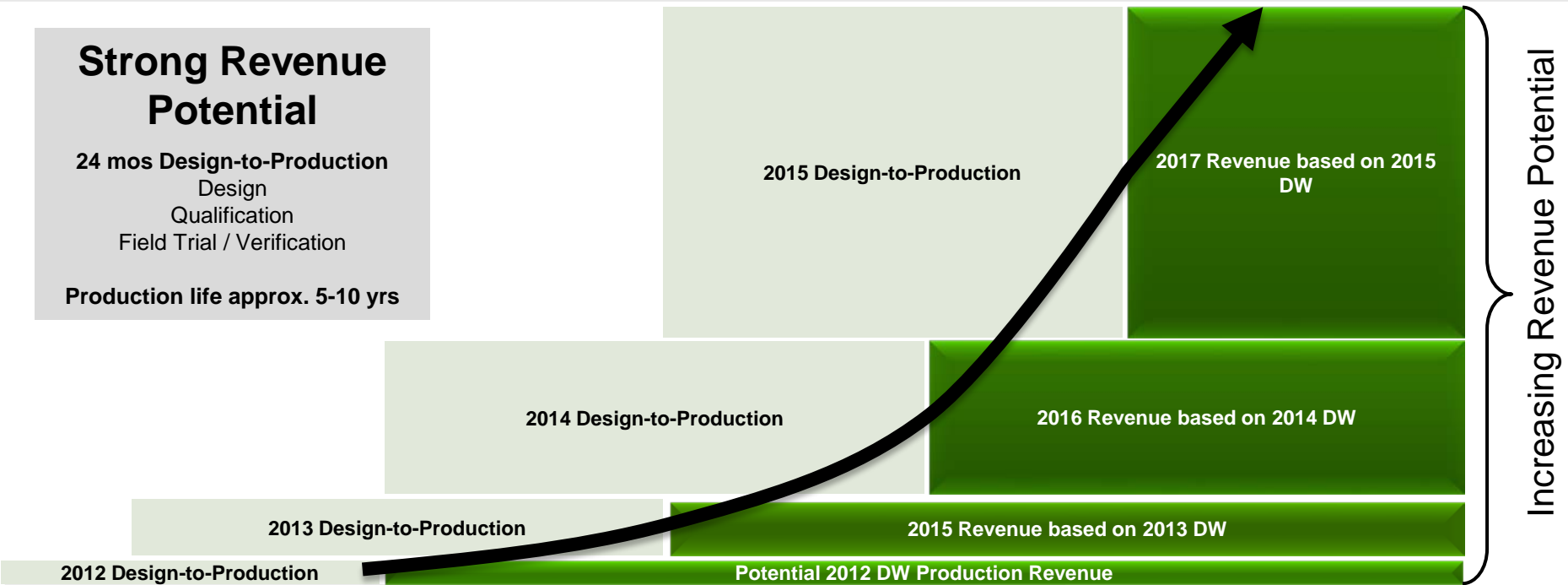
More Products to Sell





Increasing Revenue Potential

Based on Design Win Trends & New Products



Target Operating Model

| Targets | Medium Term | Long Term |
|----------------------|------------------------|---------------------|
| Revenue Growth (YoY) | 100%+ YoY | 40%+ YoY |
| Gross Margin* | 50% | 60%+ |
| Operating Margin* | NA | 20%+ |
| Cash Flow | Declining Cash Burn | Cash- Generating |

*Non-GAAP measures that exclude stock-based compensation expenses and amortization of intangibles



Summary Income Statement (Non-GAAP*)

In Millions, except EPS

| | Q3 15 | Q2 15 | Q1 15 | 2014 | 2013 |
|------------------------|------------|------------|------------|------------|------------|
| Total Revenues | \$ 1.1 | \$ 1.0 | \$ 0.8 | \$ 5.4 | \$ 4.4 |
| Product | 0.6 | 0.5 | 0.2 | 2.3 | 0.4 |
| Royalty and other | 0.5 | 0.5 | 0.6 | 3.1 | 4.0 |
| Gross Profit | 0.2 | 0.4 | 0.5 | 3.1 | 3.9 |
| <i>Margin %</i> | <i>22%</i> | <i>43%</i> | <i>69%</i> | <i>57%</i> | <i>89%</i> |
| R&D | 8.2 | 5.2 | 5.7 | 24.8 | 19.8 |
| SG&A | 1.3 | 1.3 | 1.3 | 5.4 | 5.0 |
| Gain on sale of assets | -- | -- | -- | -- | (0.6) |
| Total Op Ex | 9.5 | 6.5 | 7.0 | 30.2 | 24.2 |
| Net Loss | \$ (9.3) | \$ (6.1) | \$ (6.5) | \$ (27.1) | \$ (20.1) |
| EPS | \$ (0.14) | \$ (0.09) | \$ (0.12) | \$ (0.55) | \$ (0.44) |

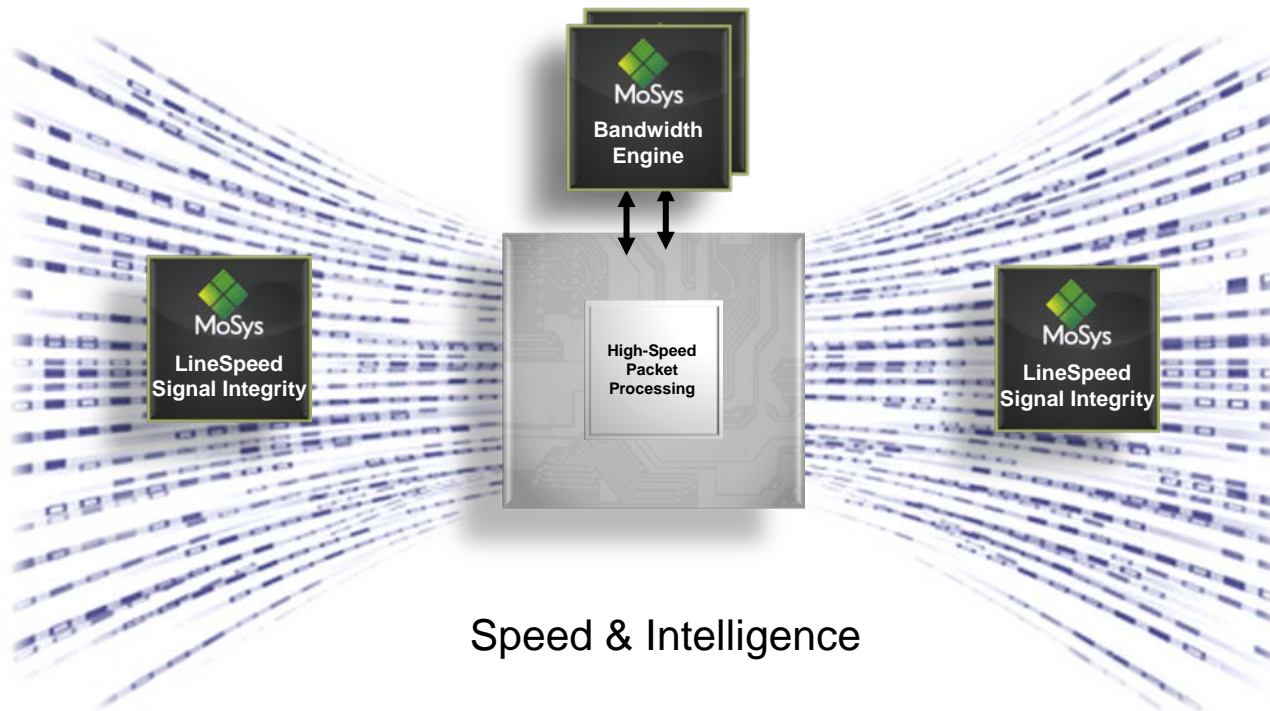
*Non-GAAP: Excludes non-cash charges: stock-based compensation and amortization of intangibles

Balance Sheet

| (in millions) Q3 - Sep 30 2015 | |
|--------------------------------|--------|
| Cash & Investments | \$25.5 |
| Total Assets | \$53.3 |
| Debt | \$0.0 |
| Total Liabilities | \$2.7 |
| Stockholders' Equity | \$50.6 |
| Total Shares Outstanding | 65.5 |

Investment Highlights

- ❖ IC Products Solve Key Networking & Cloud Challenges
- ❖ Differentiated Products with Long Lifetime
- ❖ Market Trends & Partnerships Pave Way for Future Success
- ❖ Dedicated Organization, Proven Veteran Leadership





Thank You

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