

The Global Data Explosion



Riccardo Badalone
Chief Executive Officer

Internet Connections Growing Exponentially

Social Media

1.4 BILLION

FACEBOOK



Mobile Devices

\$626 BILLION

2018 RETAIL REVENUE



Connected Devices
and Wearables

\$19 TRILLION

INTERNET OF THINGS





Alibaba.com™

Google



Microsoft



amazon



facebook.



The Race Is On

Alibaba revenues grew
787% in 4 YEARS
from 2010 to 2014

Amazon drone delivery
\$2 TRILLION
expected market

Facebook first quarter
\$3.4 BILLION
in revenues

Not Your Father's Traditional Enterprise

- Millions of servers shifting into Large Scale Datacenters (Webscale and Cloud)
 - According to IDC, hyperscale data centers will grow from 18.7% to over 50% of the server market by 2017
- Sensors are being added to every device possible, creating the Internet of Things
 - Data gathering and processing is accelerating, “Big Data” will be an understatement



The Realities of 'Winning the Internet'



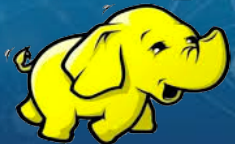
New Software, New Capability, New Reality

Issue#1: Social and Mobile Transaction
Throughput Driving need for Faster Flash Storage

Spark

memCached

hadoop



redis

MySQL

mongoDB

*DRAM and Flash
Increasing Server
Cost and Power*

Issue #2: New In-Memory based Software
Driving need for more Memory

Which Memory Technology can Help?

Compared to DRAM:

10X ↓ \$/GB

3X ↓ Watt/GB

10X ↑ GB/in²

Value to the Industry:

Reduce
System CapEx

Reduce
System OpEx

Increase
System Capability

Flash is the answer

Diablo Technologies

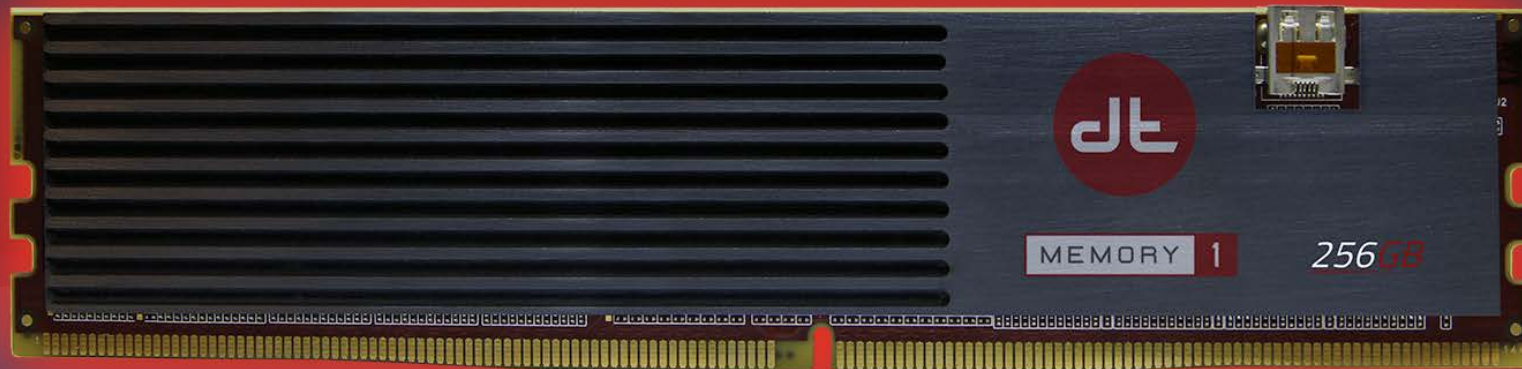
MEMORY

1

First all-flash
memory module

Seamless
Integration

Disruptive
Economics



Diablo Technologies

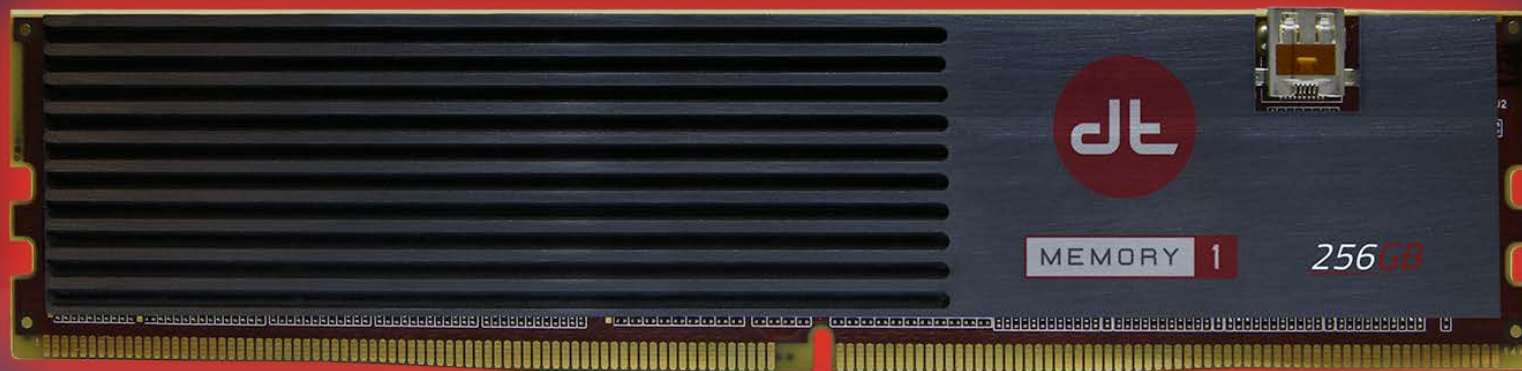
MEMORY

1

Manage, analyze and
act on “Massive
Data”

Change insights into
business results and
intelligence

Enable Large-Scale
automation and real-time
decisions



Memory1 for Data Analysis at Large Scale

DRAM



MEMORY 1



Full data set in
each server cache

Reduce cache misses,
network traffic

Improve application
response times

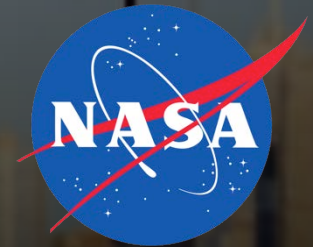
The Automated World



Deliver packages into customers' hands in 30 minutes or less



FAA has approved Amazon drones with limits of 400 feet altitude and 100 miles per hour



NASA in Silicon Valley is leading the effort to establish drone air traffic control

Goal of the Automated World

Smart Cities



Smart Health



Smart Homes



Thank you.

