RADEON INSTINCT
Accelerating Machine Intelligence
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Fluctuations in demand for AMD’s products or a market decline in any of these industries could have a material adverse effect on its results of operations; AMD’s burden of managing and introducing new products in a timely manner is dependent upon third-party intellectual property; AMD depends on third-party companies for the design, manufacture and supply of motherboards, software and other computer platform components to support its business; if AMD loses Microsoft Corporation’s support for its products or other software vendors do not design and develop software to run on AMD’s products, its ability to sell its products could be materially adversely affected; AMD’s reliance on third-party distributors and AIB partners subject it to certain risks; AMD’s inability to continue to attract and retain qualified personnel may hinder its product development programs; our issuance to West Coast Hitech LP (WCH) of warrants to purchase 75 million shares of our common stock, if and when exercised, will dilute the ownership interest of our existing stockholders, and the conversion of the 2.125% Notes may dilute the ownership interest of our existing stockholders, or may otherwise depress the price of our common stock; in the event of a change of control, AMD may not be able to repurchase its outstanding debt as required by the applicable indentures and its Secured Revolving Line of Credit, which would result in a default under the indentures and its Secured Revolving Line of Credit; the semiconductor industry is highly cyclical and has experienced severe downturns that have materially adversely affected, and may continue to materially adversely affect its business in the future; acquisitions, divestitures and/or joint ventures could disrupt its business, harm its financial condition and operating results or dilute, or adversely affect the price of, its common stock; AMD’s business is dependent upon the proper functioning of its internal business processes and information systems and modification or interruption of such systems may disrupt its business, processes and internal controls; data breaches and cyber-attacks could compromise AMD’s intellectual property or other sensitive information; be costly to remediate and cause significant damage to its business and reputation; AMD’s operating results are subject to quarterly and seasonal sales patterns; if essential equipment, materials or manufacturing processes are not available to manufacture its products, AMD could be materially adversely affected; if AMD’s products are not compatible with some or all industry-standard software and hardware, it could be materially adversely affected; costs related to defective products could have a material adverse effect on AMD; if AMD fails to maintain the efficiency of its supply chain as it responds to changes in customer demand for its products, its business could be materially adversely affected; AMD outsources to third parties certain supply-chain logistics functions, including portions of its product distribution, transportation management and information technology support services; the completion and impact of the 2015 restructuring plan, its transformation initiatives and any future restructuring actions could adversely affect it; AMD may incur future impairments of goodwill; AMD’s worldwide operations are subject to political, legal and economic risks and natural disasters, which could have a material adverse effect on it; worldwide political conditions may adversely affect demand for AMD’s products; unfavorable currency exchange rate fluctuations could adversely affect AMD; AMD’s inability to effectively control the sales of its products on the gray market could have a material adverse effect on it; if AMD cannot adequately protect its technology or other intellectual property in the United States and abroad, through patents, copyrights, trade secrets, trademarks and other measures, it may lose a competitive advantage and incur significant expenses; AMD is a party to litigation and may become a party to other claims or litigation that could cause it to incur substantial costs or pay substantial damages or prohibit it from selling its products, AMD’s business is subject to potential tax liabilities; AMD is subject to environmental laws, conflict minerals-related provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act as well as a variety of other laws or regulations that could result in additional costs and liabilities. Investors are urged to review in detail the risks and uncertainties in AMD’s Securities and Exchange Commission filings, including but not limited to AMD’s Quarterly Report on Form 10-Q for the quarter ended September 24, 2016.
Our Vision

Immersive and instinctive computing will transform our lives
Our Strategy and Focus

Graphics
- Gaming
- Artificial Intelligence
- Virtual & Augmented Reality

Compute
- Client Systems
- Infrastructure & Cloud

Solutions
- Semi-Custom
- Vertical Platforms
- Joint Ventures & Partnerships
| Record-setting year for semi-custom unit and revenue growth | Gained six points discrete graphic share in 2016⁽¹⁾ | Bringing Virtual Reality to Mainstream Consumers | Four straight quarters of mobile APU growth |

⁽¹⁾ Mercury Research
Customer Momentum
We are the Leader in Heterogeneous Computing

Founding Member of Heterogeneous System Architecture Foundation

Radeon Open Compute (ROCm)
Support for x86, ARM® and POWER
Support to port CUDA applications

Open Interconnect Standards for Heterogeneous Accelerators
Founding member of CCIX, Gen-Z and OpenCAPI
Machine Intelligence Applications

- Autonomous Vehicles
- Autopilot Drone
- High Performance Computing
- Cloud Control
- Nano-Robots
- Medicine
- Personal Assistance

- Smart Home
- Personal Robots
- Security
- Financial Services
- Manufacturing & Engineering
- Energy
AI and Deep Learning: Algorithms Coming to Reality

Early ANN
Simple NN models

Backward Propagation
Supervised learning

Handwriting recognition
Deep Belief Networks

CNN and Deep NN
Accuracy Image Classification
“Train to Learn”

Real-time scene interpretation and residual learning
“Learn to Train”

Present Day

Complex (very) deep NN, combinations of RNN, RCNN, LSTM...
Real time Inference Fast Training
Radeon Instinct Initiative

Address market verticals that use a common infrastructure to leverage the investments and scale fast across multiple industries.

- Alibaba
- Google

Cloud / Hyperscale
Financial Services
Energy
Life Sciences
Automotive

Optimized Machine Learning / Deep Learning Frameworks and Applications

ROCM Software Platform

Radeon™ Instinct Hardware Platform
**Accelerators**

**MI6 Polaris based GPU**
- Passively Cooled Inference Accelerator
- 5.70 TFLOPS
- 224 GB/s Memory Bandwidth
- <150W

**MI8 “Fiji” Nano based GPU**
- Small Form Factor Accelerator
- 8.2 TFLOPS
- 512 GB/s Memory Bandwidth
- <175W

**MI25 Vega with NCU**
- Passively cooled Training Accelerator
- 2X Packed Math
- High Bandwidth Cache and Controller
- <300W
Accelerators

RADEON INSTINCT

- Built Exclusively by AMD
- MxGPU SRIOV HW Virtualization
- Passively Cooled
- Large BAR Support for MGPU Peer to Peer
Introducing MIOpen—Super High Performance

Deep Learning Library for Radeon Instinct
ROCm Software

Machine Learning Applications

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<th>Frameworks</th>
<th>Caffe</th>
<th>TensorFlow</th>
<th>Torch 7</th>
<th>MxNet</th>
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Middleware & Libraries

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<th>MIOpen</th>
<th>BLAS, FFT, RNG</th>
<th>NCCL</th>
<th>C++ STL</th>
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HCC | HIP | OpenCL | Python

ROCm Platform
Radeon Instinct with Zen “Naples” Platform

Optimized for GPU and Accelerator Throughput computing

- Lower System Cost
- Lower Latency Architecture
- Peer to Peer Communication
- High Density Footprint
Accelerators

Open Software Stack
Dramatically Advancing the Pace of Machine Intelligence
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