International Rectifier Update

Annual Meeting of the Stockholders

November 4, 2013

International
IOR Rectifier

Statement of Caution Under the Private Securities Litigation Reform Act of 1995

This Investor Presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These statements relate to expectations concerning matters that (a) are not historical facts, (b) predict or forecast future events or results, or (c) embody assumptions that may prove to have been inaccurate. These forward-looking statements involve risks, uncertainties and assumptions. When we use words such as "believe," "expect," "anticipate" or similar expressions, we are making forward-looking statements. Although we believe that the expectations reflected in such forward-looking statements are reasonable, we cannot give readers any assurance that such expectations will prove correct. The actual results may differ materially from those anticipated in the forward-looking statements as a result of numerous factors, many of which are beyond our control. Important factors that could cause actual results to differ materially from our expectations include, but are not limited to, the factors discussed in the sections entitled "Risk Factors" and entitled "Critical Accounting Policies and Estimates" within "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our filings with the Securities and Exchange Commission, including our most recent reports on Form 10-K and 10-Q. All forward-looking statements attributable to the Company are expressly qualified in their entirety by the factors that may cause actual results to differ materially from anticipated results. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinion only as of the date hereof. We undertake no duty or obligation to revise these forward-looking statements. Readers should carefully review the risk factors described in this document as well as in other documents we file from time to time with the Securities and Exchange Commission.

Our Strategy

1. **Leadership in core Power Management technologies**
   - Benchmark LV- and MV-MOSFET and IGBT process technology
   - Digital Power Management
     - CHiL controllers + benchmark LV MOSFETs
   - Benchmark industrial IGBTs for Variable Speed Motion
   - Automotive grade IGBTs for H(EV) drive train technology
   - GaN-on-Si – disruptive power switching technology

2. **Efficient and flexible manufacturing and supply chain**
   - Front-end model moving to 50% wafers sourced externally
   - Back-end model moving to 70% sourced externally

3. **Strategic alignment and partnership with Tier 1 OEMs, ODMs, and Distributors**

Key Technologies Driving Our Future Growth

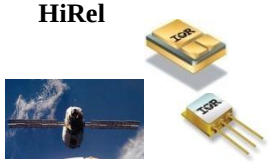
Low and mid voltage MOSFETS

Industrial

Power Supplies

Consumer & Computing

HiRel



Revolutionary GaN Technology

Higher efficiency

- Smaller footprint
- Lower system cost
- Strong IP portfolio
- Engagements with tier one customers for early adoption

High Voltage IGBTs and ICs

Appliances

Industrial

Motion Control

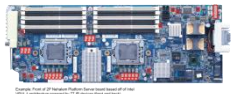
Power Modules for Appliance and Industrial

Digital Power Control

Digital Controllers

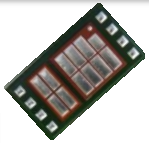
High Performance Computing

Servers

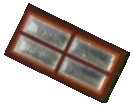


Automotive IGBTs

COOliR*IGBT*™



COOliR²*Bridge*™

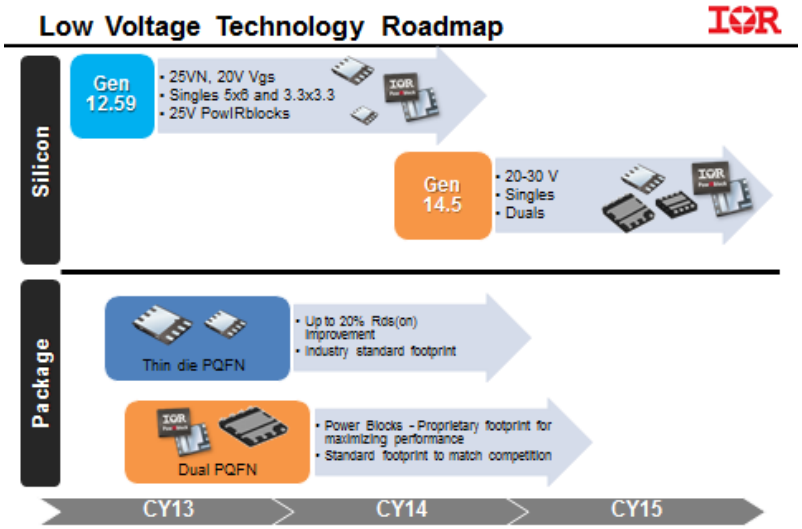


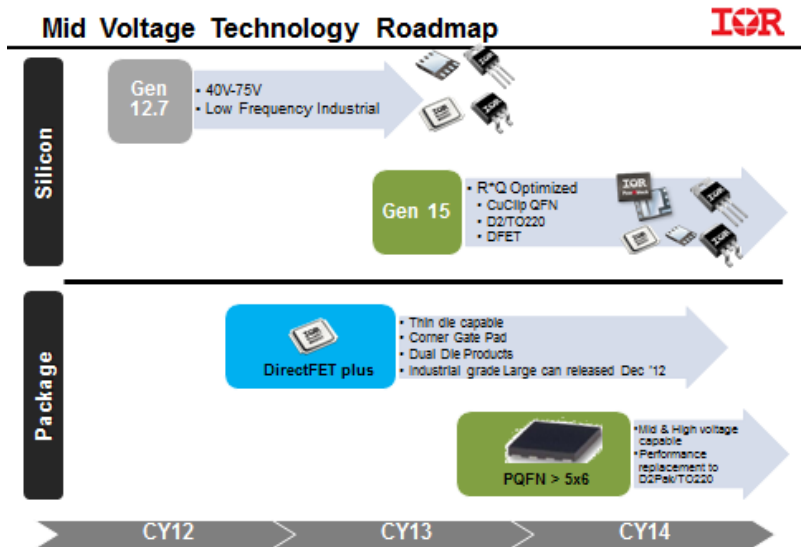
Industry Leading Low & Medium Voltage MOSFET Portfolio Serving Broad Range of Markets

Industrial applications
(AC/DC power supply , DC motors, solar inverter, UPS, …)

Consumer and mobile applications
(computer, battery pack, hand-held,…)

Industrial applications
(AC/DC power supply, lighting,…)





IR MOSFET Market Leadership

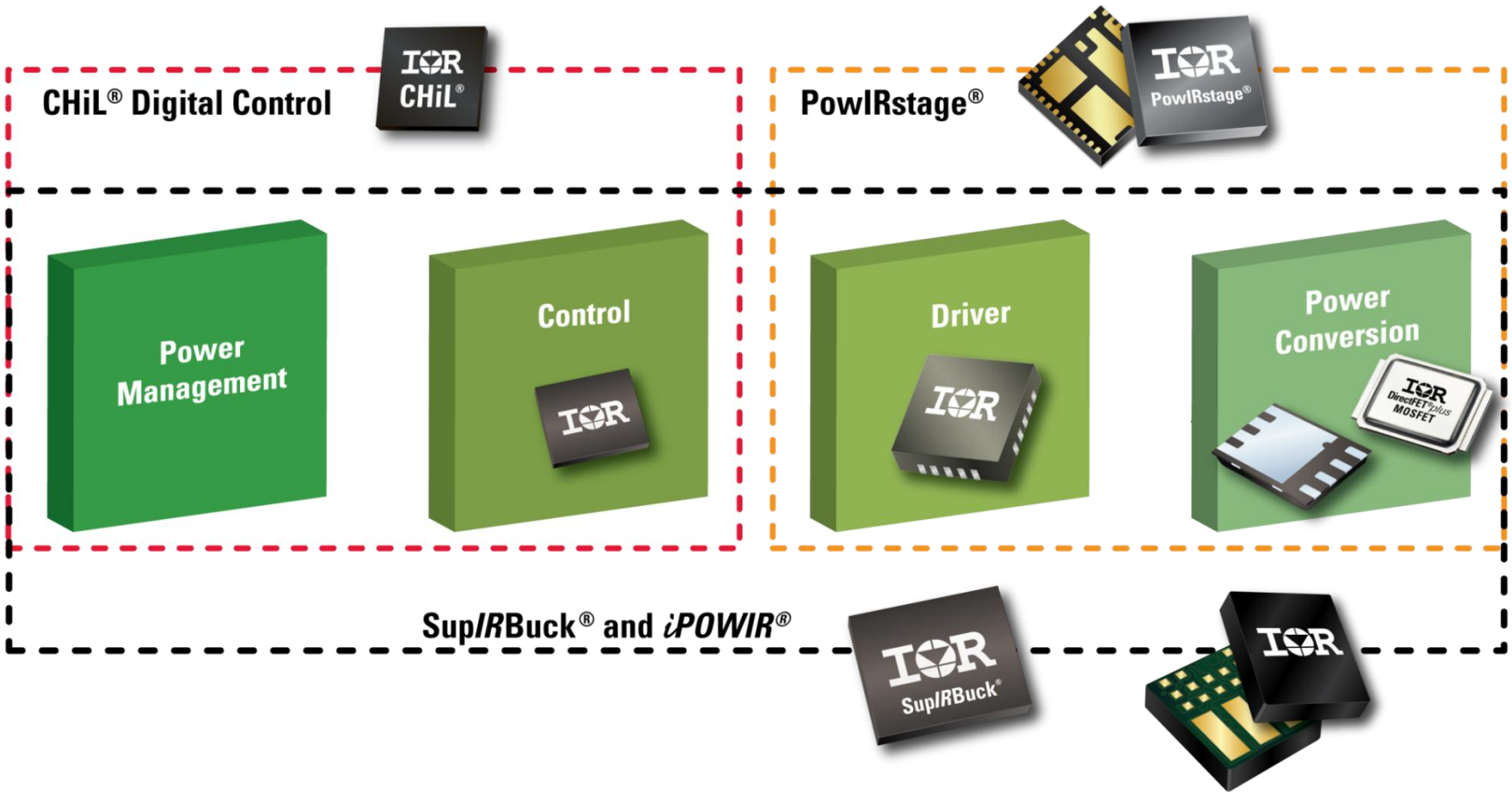
Top 10 Suppliers of Power MOSFETs - 2012		
Rank		Company
2012	2011	
1	**1**	**International Rectifier**
2	5	Renesas Electronics Corporation
3	2	Toshiba
4	3	Infineon Technologies
5	4	Fairchild Semiconductor
6	6	Vishay Intertechnology
7	7	STMicroelectronics
8	9	Alpha & Omega Semiconductor
9	8	ON Semiconductor
10	10	NXP

IHS iSuppli | March 2013

#1 supplier of power MOSFETs in 2012 with 11% of the $5.9B market segment

Digital Power Management

Complete End-to-End DC-DC Solution



Leading Digital Power Management Revolution with a Complete End-to-End DC-DC Solution

Initial Target Segment – High Performance Computing

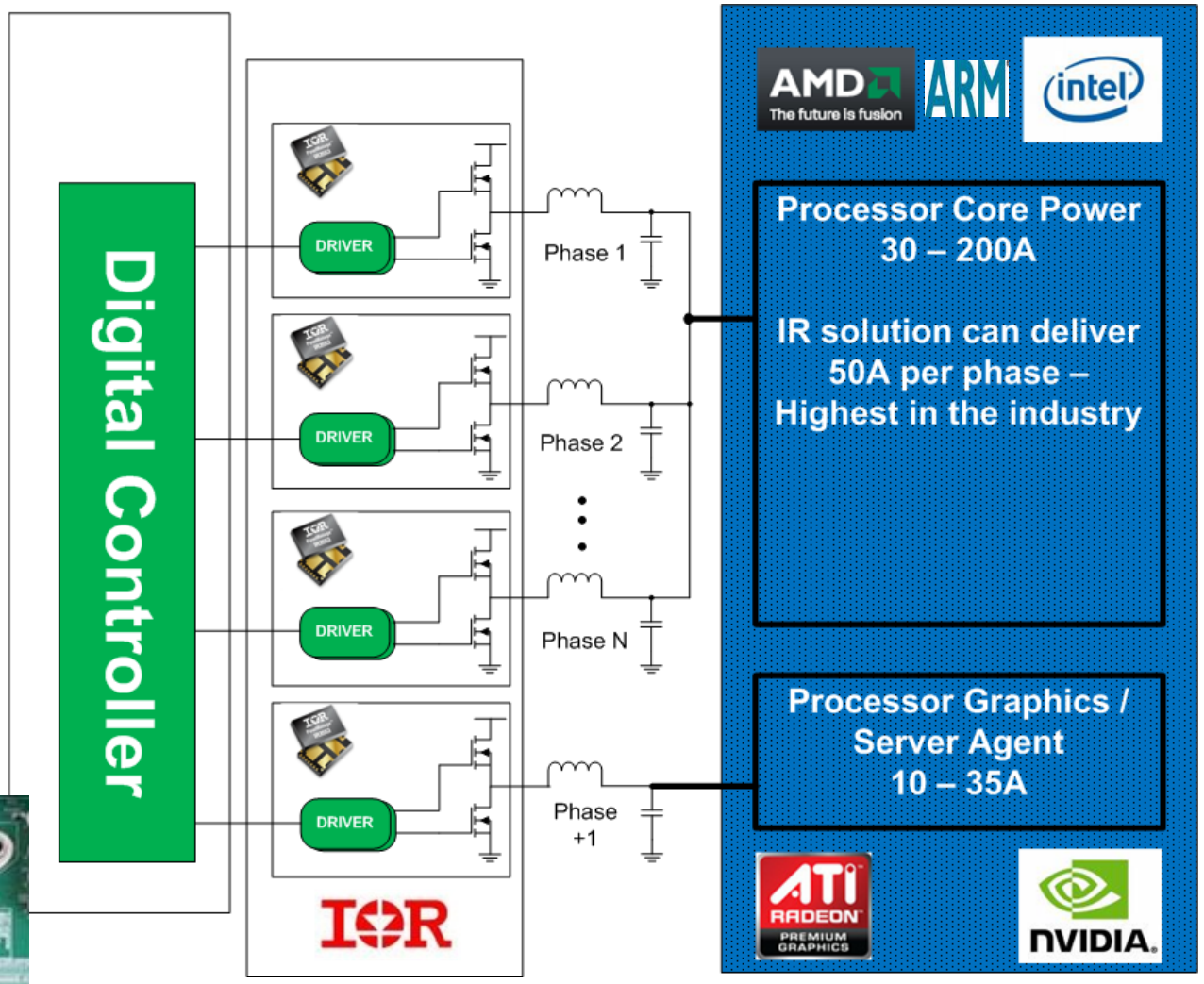
Significant Share Gain in Upcoming Grantley Server Platform

Digital Communication

- Real time monitoring of currents, voltages and faults
- Configuration of controllers to meet system requirements
- Communication between the system/CPUs and the power management chips

Digital Control

- Cost effective
- Easy to design and use
- IR has the lowest quiescent power on par with Analog Controllers

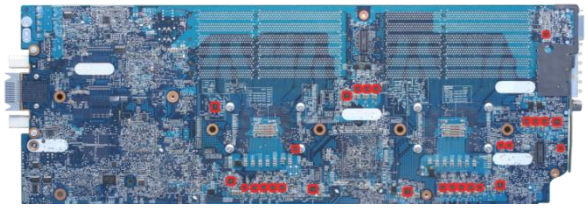


Solutions for leading Server and Desktop CPU's from Intel, AMD

- Solutions for Graphics processors (GPU) from ATI (AMD) and Nvidia.

Longer Term – Extending Digital Power Management into Other IR Market Applications

Computing/Servers (2011-2013) → **Appliance/Industrial (2014)** → **Automotive (2014/2015)**



Server

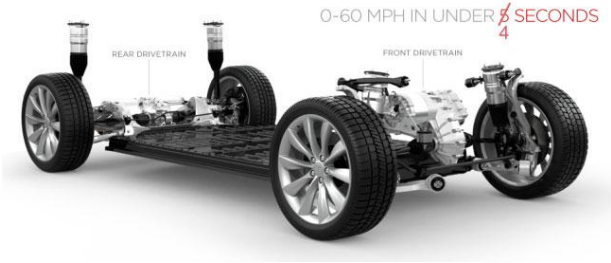
Appliance

Desktop

Graphics

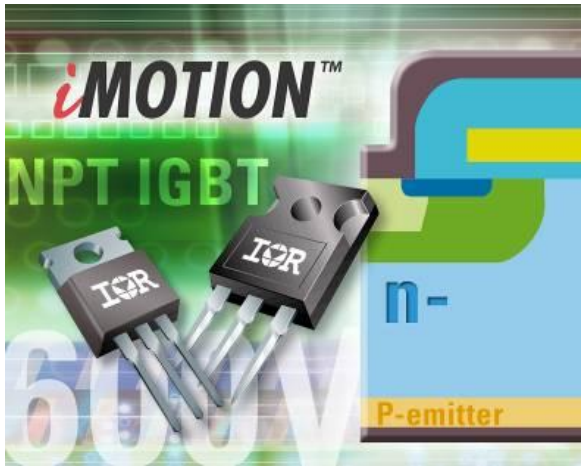
Industrial

Automotive



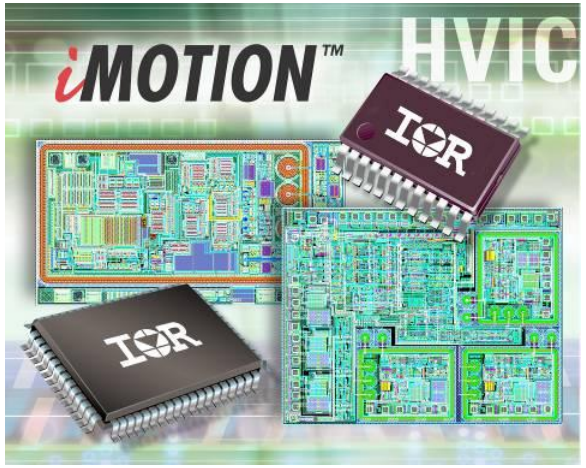
High Voltage IGBT and IC Technologies

IGBTs



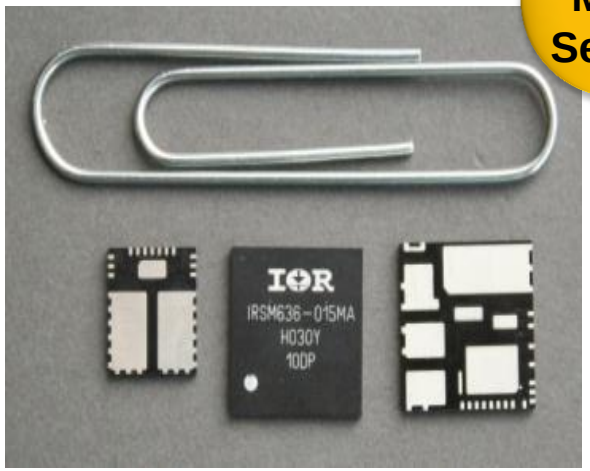
Intelligent Power Module (IRAM)

Digital controller & High-Voltage IC



uIPM

New Market Segment



IR's IGBT and HVIC Technology Enabling Market Adoption of Variable Speed Motors

Key factors

- 2015 market forecast for the variable speed motor control is 3x of 2010 volumes
- The inverterization of small appliances drives the demand for compact and economical power stage solutions.

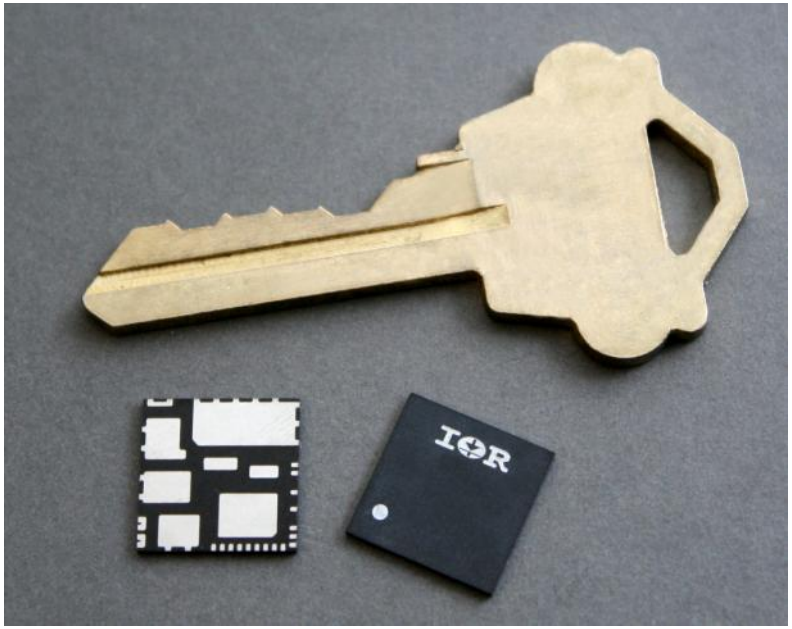
World Market for Inverter-based Variable Speed Control MHAs by Type

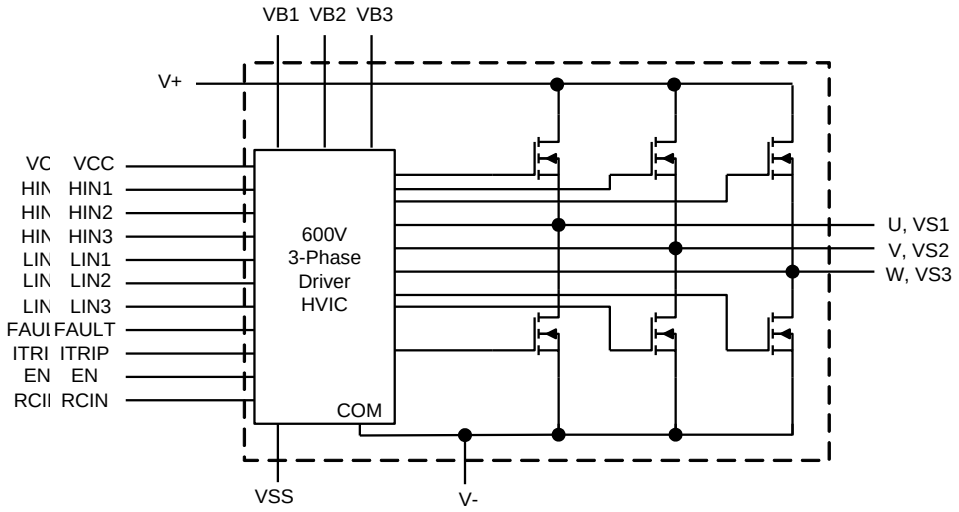
Unit Shipments ('000)

	2012	2017	'12-'17 CAGR
% with Inverter-based VSD			
Average VSD Penetration across MHA	**23.30%**	**44.50%**	**13.80%**
Inverter-based VSD MHA Shipments			
Washing Machines			**21.90%**
Fridges/Freezers			**23.00%**
Dishwashers			**21.90%**
Room Air Conditioners			**16.70%**
Microwave Ovens			**20.60%**
World Total VSD MHA Shipments (kU)	**98,477**	**239,575**	**19.50%**

Source: IHS **Oct-13**

- Micro Inverter for Solar Conversion
- Motor Drive variable speed applications for light loads 20W-250W for example in:
- Pumps
- Compressors
- Fans



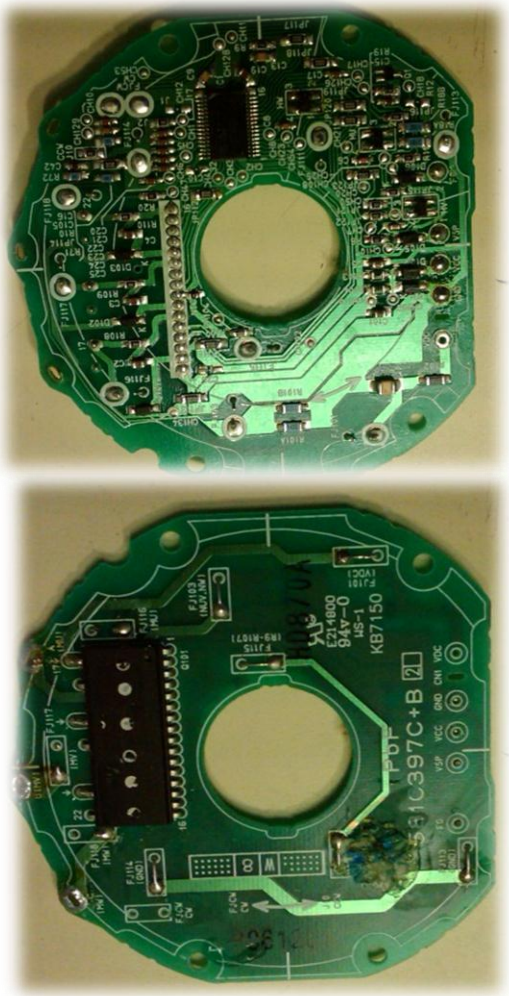


The μIPM™ Advantage

- **Simpler**
- **Smaller**
- **No Heat Sink**
- **Lower Cost**

μIPM™ : Enabling Smaller Size and Lower Cost

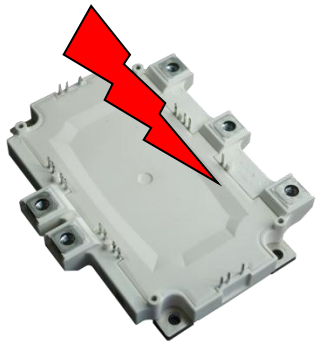
Existing system:
91 component count



IR's new system:
31 component count

Automotive Electrification Presents Significant Opportunity For IR

IGBTs play a large role in EV powertrains



Strong growth for EV and HEV vehicles

Sales projected to exceed 5 Million annual units by 2017*

(H)EV Powertrain Semi Content expected to grow 3X by 2015*

Additional Power Semiconductor (H)EV drive train content: ~300$

First generations of industrial solutions being replaced by automotive suitable performance modules

Significant Growth Opportunity for IR's IGBT Technology

*Deutsche Bank Report on the EV/HEV Opportunity, 10/9/13

(H)EV Vehicles Significantly Expand TAM for Power Semiconductor Companies

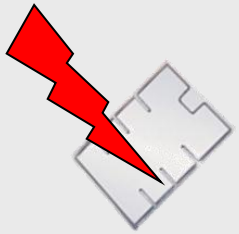
Automobile Type	~Semiconductor Content Per Automobile			
	MOSFETs and IGBTs	Analog ICs	Other	Total
Economy (2013)	$17	$12	$174	**$205**
Midrange (2013)	$18	$15	$231	**$264**
Luxury Car (2013)	$20	$23	$385	**$428**
Midrange Hybrid (2013)	$193	$42	$351	**$586**

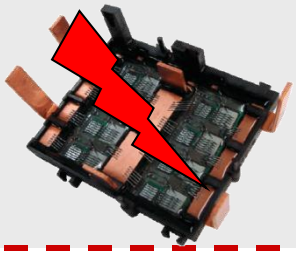
New hybrid and electric vehicle platforms open up a significantly greater percentage of the semiconductor content per car

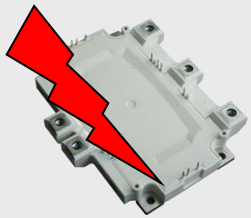
Source: WSTS and summary from several Automotive System Suppliers and other sources

IR's Automotive IGBT Technology Meets Advanced Requirements of the Next Generation (H)EV Vehicles

Today







IGBT & Diode:

increased Robustness vs. current technology

(Breakdown Voltage, T_{jmax}, $T_{shortcircuit}$, temperature coefficients)

Package Technology :

better Reliability & Thermal performance vs. state of the art

(bond wireless, dual-sided cooling)

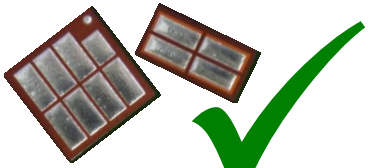
Power Modules:

improved form-factors, scalability, power density and thermals for system integration

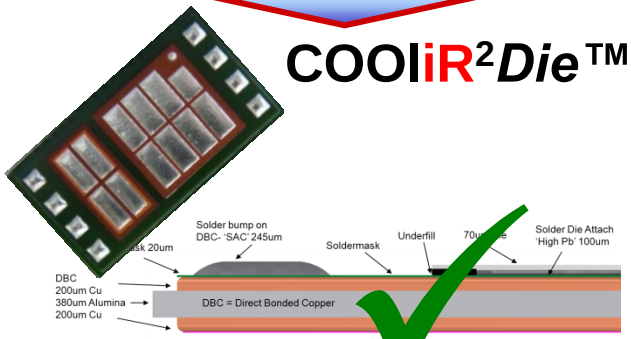
(dual-cooling, low parasitics)

COOliR*IGBT*™

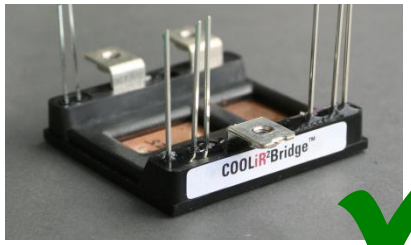
COOliR*DIODE*™



COOliR²*Die*™



COOliR²*Bridge*™



COOliR(2) ™ addresses (H)EV Requirements on all Integration Levels

233 Mile Road Test on Single Charge Using IR IGBTs

Model	Price	Power	Weight	0-60mph
BMW M5	$92k	560hp	4384lb	3.7s
CLS63AMG	$96k	550hp	4256lb	3.9s
Panamera Turbo	$176k	550hp	4388lb	3.5s
Tesla S P85	**$105k**	**416hp**	**4766lb**	**3.9s**

Tesla Model S P85
- *78.2kW-hours*
- *Equivalent to 2.3 gallons gas/100 mpg*
- *$10.32 (electricity)*

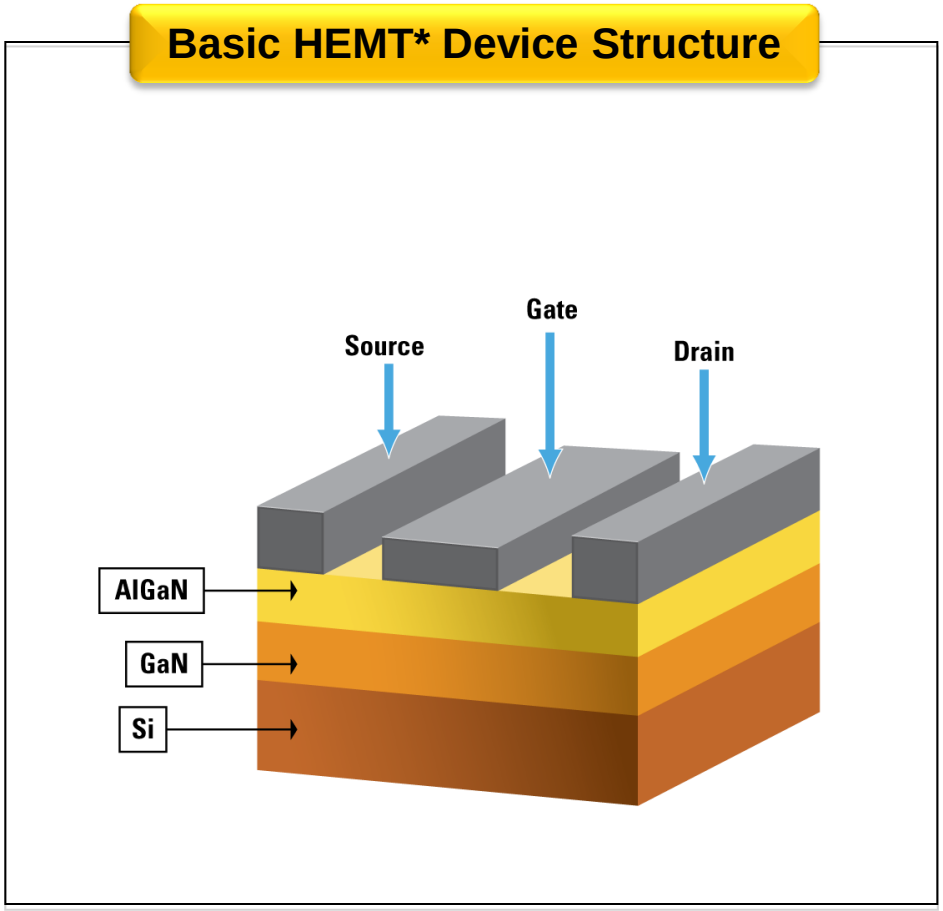
BMW 528i
- *7.9 gallons gas*
- *30 mpg*
- *$34.55 (gasoline)*

The Tesla S P85 uses IR Automotive IGBTs in Main Inverter and Battery Charger

IR Automotive IGBT Technology and Support Recently Recognized by the EV Market Segment Leader

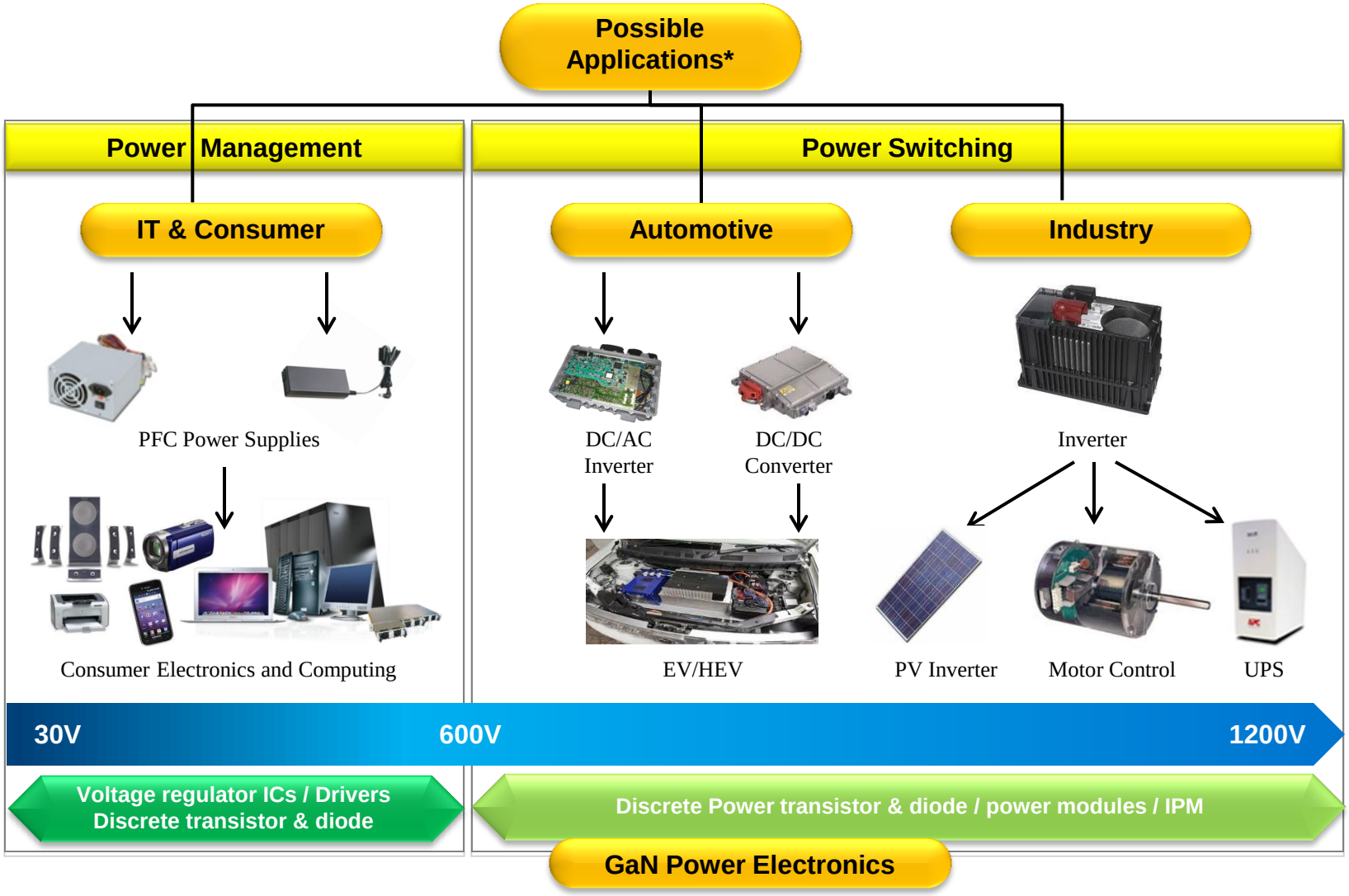
GaN Technology Expected to Revolutionize Power Management

What is GaN?



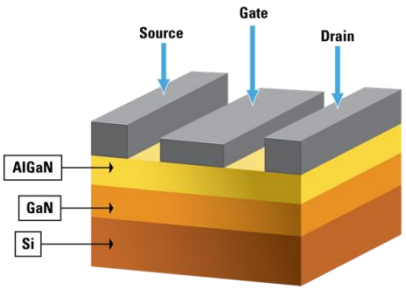
*High Electron Mobility Transistor

Disruptive GaN Technology to Revolutionize Power Management



*Source: Yole Power GaN Report: November 2010

GaN : An Industry First…



Samsung 7.1 Channel Home Theater System

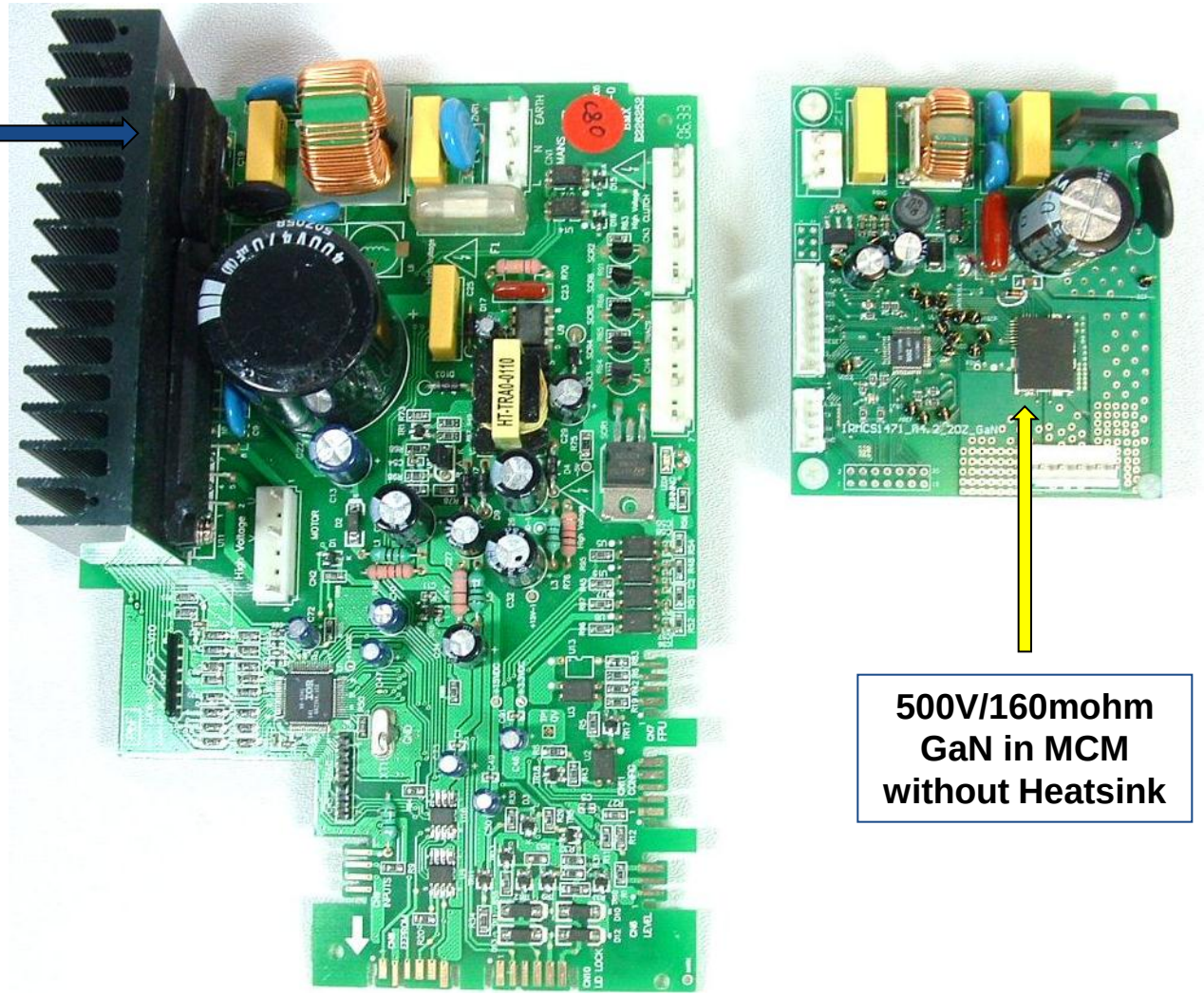
Model HT-F9750W features an IR Gallium Nitride powered amplifier that delivers pure sound

HV GaN Based µIPM™ … What the Future Could Look Like

Current 400W Inverter Board

µIPM™ GaN Based Prototype

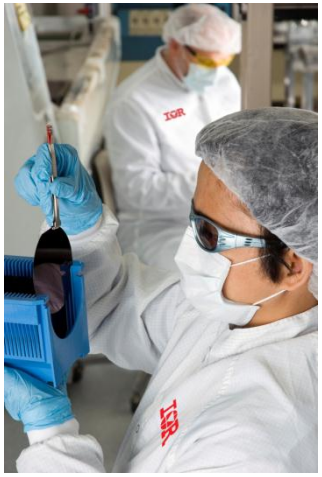
6A IRAM with Heatsink



500V/160mohm GaN in MCM without Heatsink

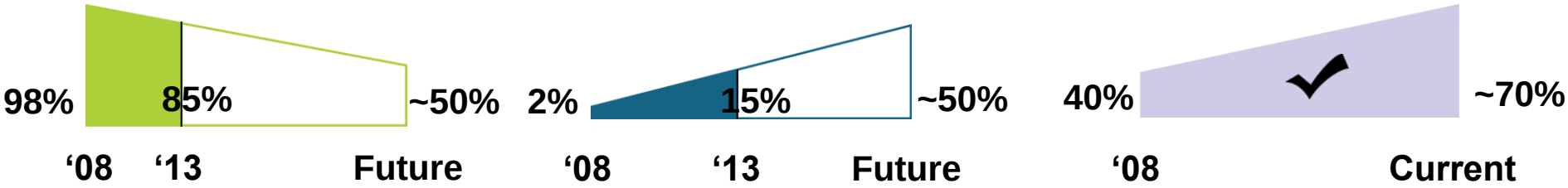
Efficient and Flexible Manufacturing

Internal Manufacturing
(Front End)



Foundry Manufacturing Partners
(Primary)

Assembly and Test Partners
(Back End)



% of total revenue

Internal Manufacturing Footprint

Newport, Wales, UK
Fab 11
(Fab 10 re-sized by Mid 2015)

San Jose, CA
HiRel

Leominster, MA
HiRel

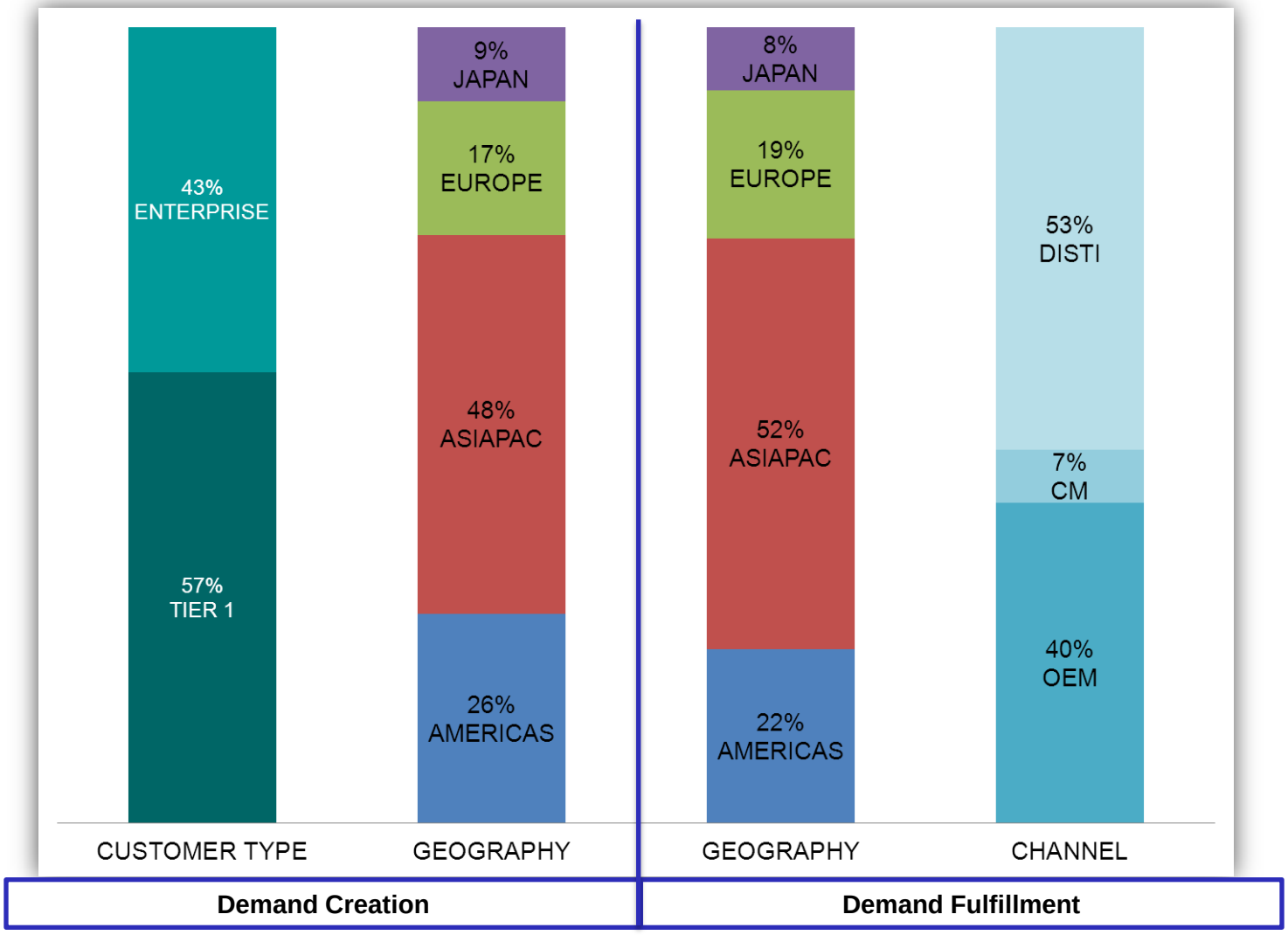
Temecula, CA
Fab 2

Mesa, AZ
EPI

Tijuana, Mexico
Assembly

Singapore
WLP Processing & Logistics

Global Sales and FAE Organization to Serve Complex Customer and Channel Requirements

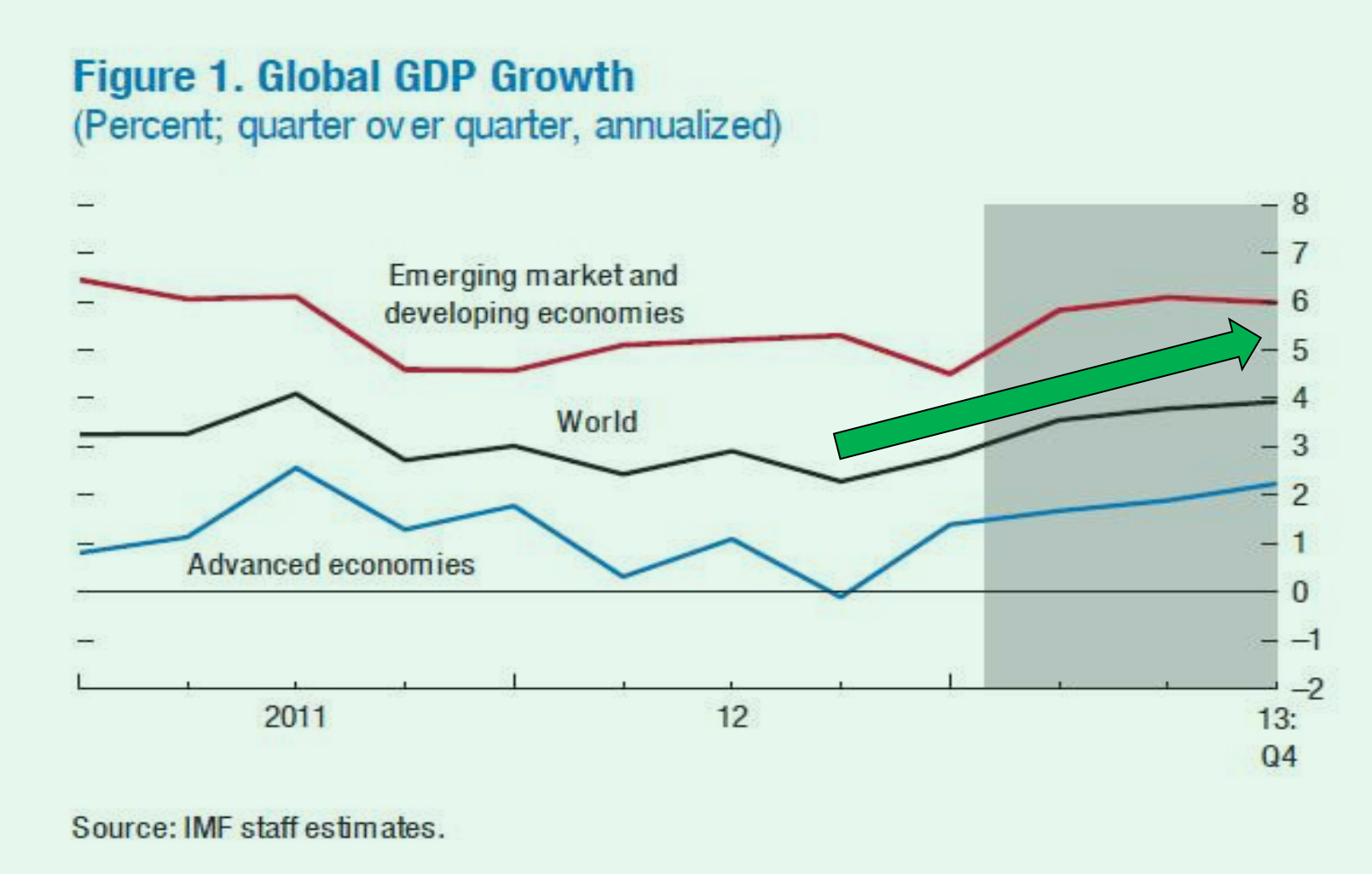


Source: LODP & SAP

Effective management of both sides is a “must” in meeting customers’ needs

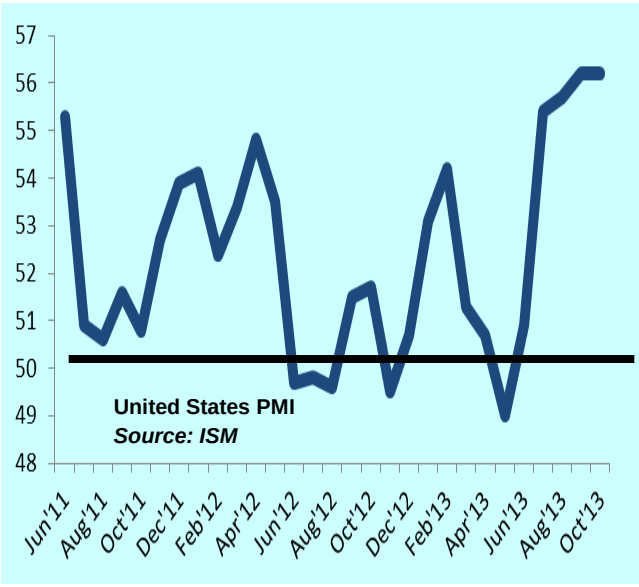
Our Current Thoughts and Expectations for CY2014

World Economy Stabilizing and Starting to Recover



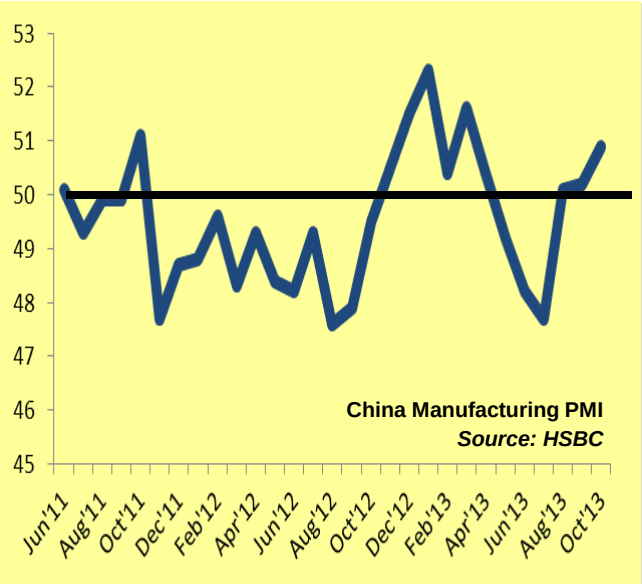
Purchasing Manager Indices (PMI) Worldwide Pointing in the Right Direction

United States



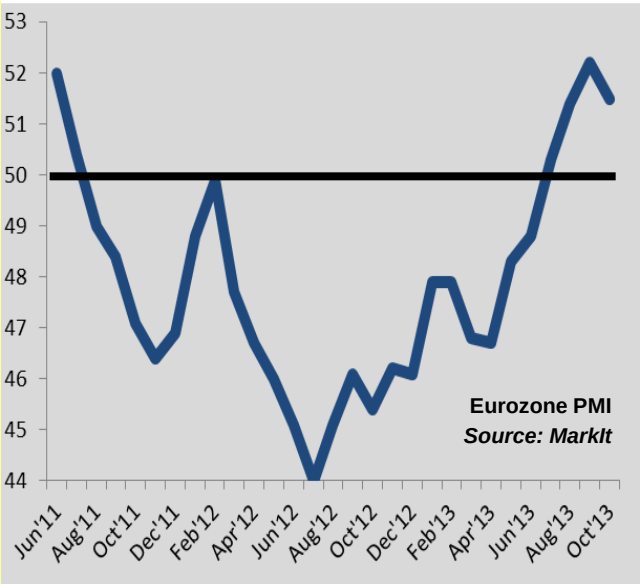
- 4rd consecutive month of expansion
- Overall US economy gaining traction
- Growth at fastest pace in last 2 years

China



- China showing recovery
- PMI back above 50
- HSBC expects upside surprises to growth in the next several months

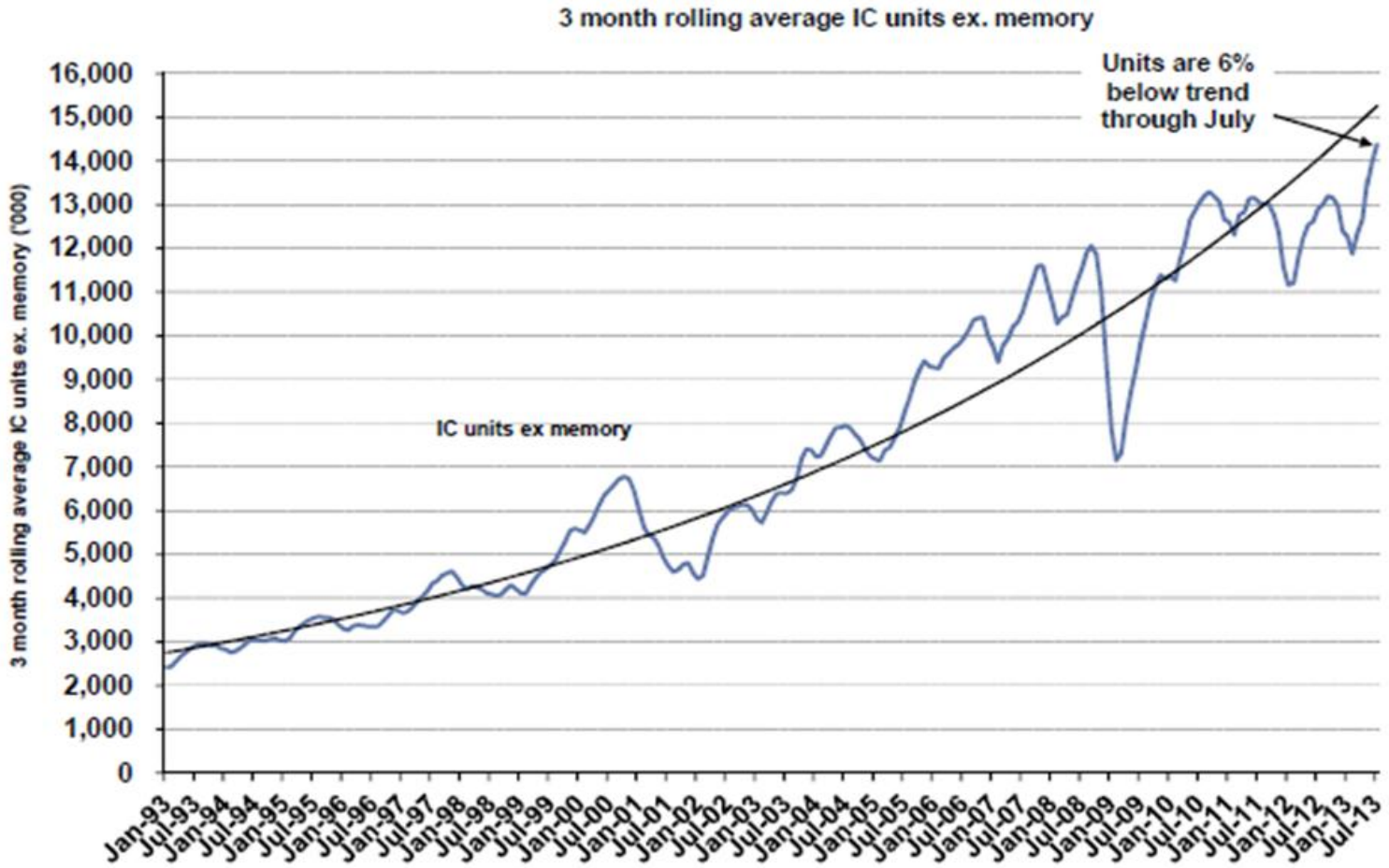
Eurozone



- Seeing signs of turnaround
- PMI near 26 month high
- Growth improves in Germany, Netherlands, Italy, Austria and Ireland

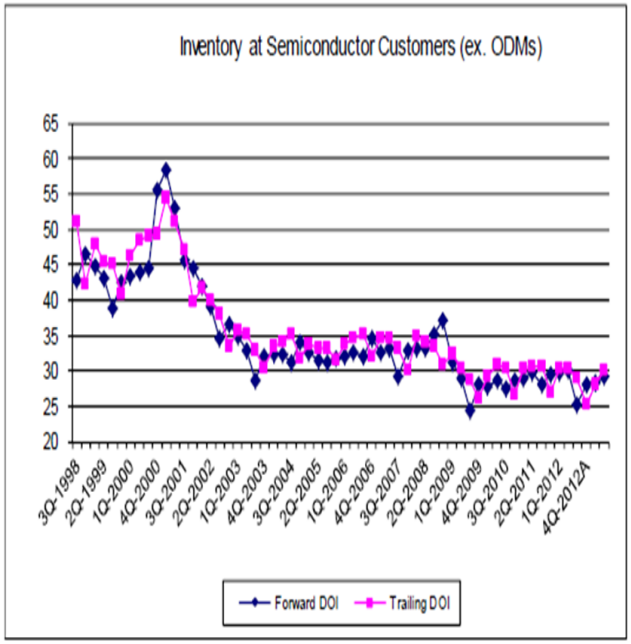
A reading above 50 signals expansion in activity and a reading below 50 signals a contraction in activity

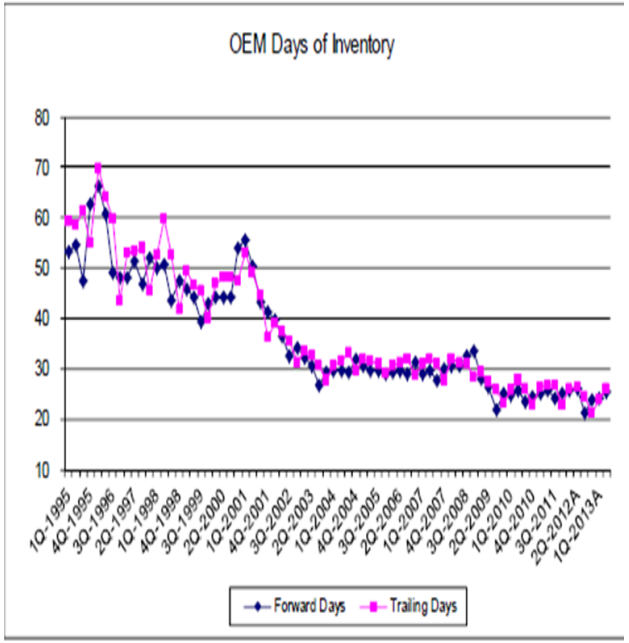
Semiconductor Units 6% Below Normalized End Demand

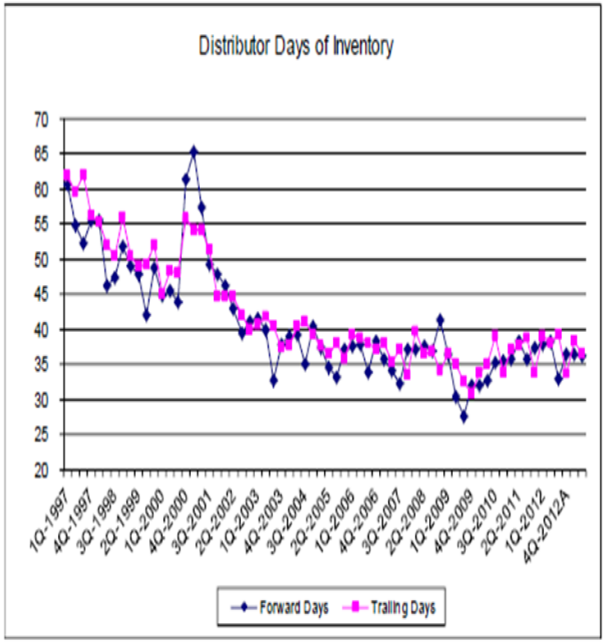


Source: SIA, Goldman Sachs Global Investment Research

Inventory Supply Chain Remains Lean



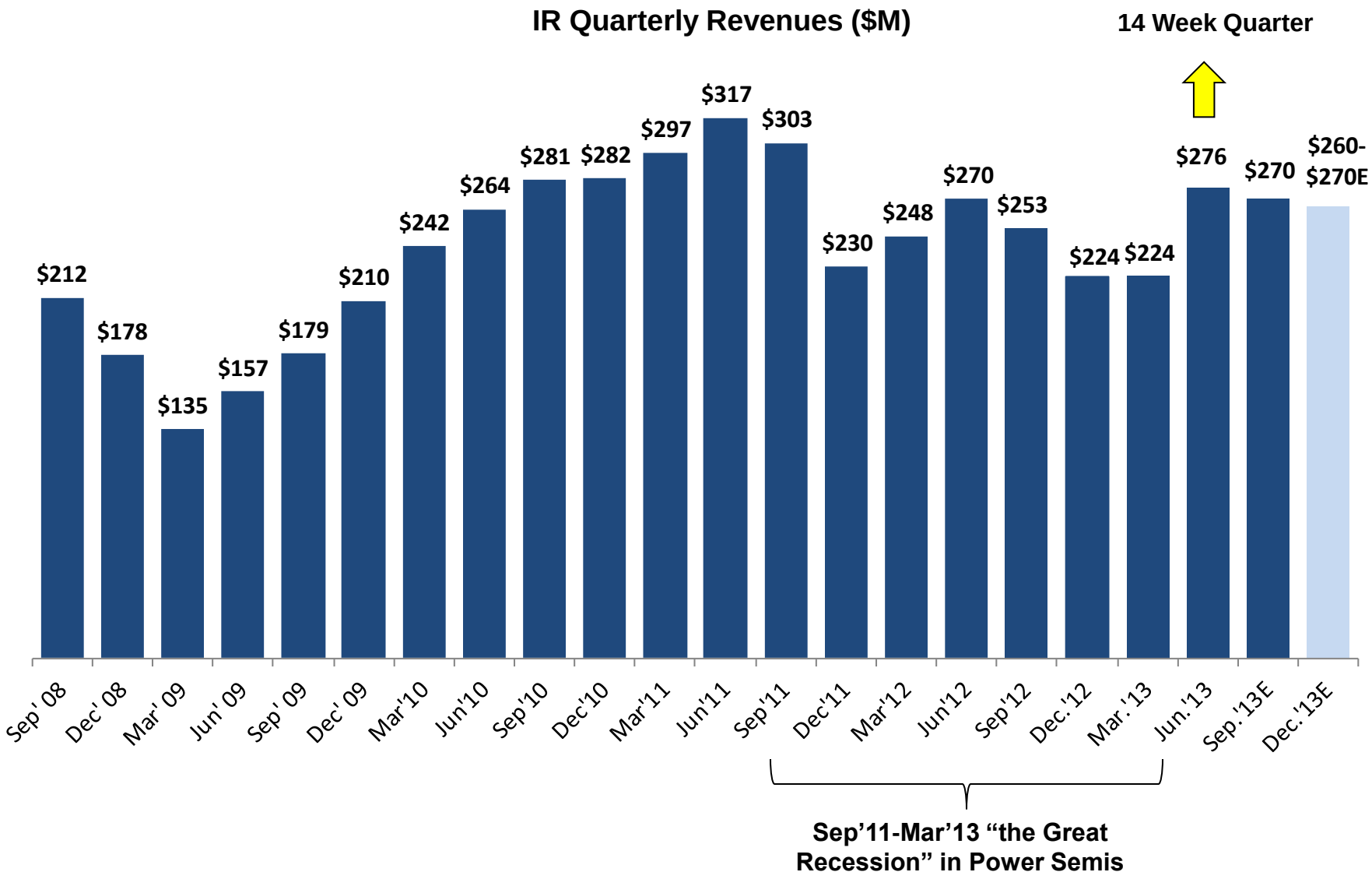




Inventory at Semi Customers (ex. ODMs)	OEM Days of Inventory	Distributor Days of Inventory

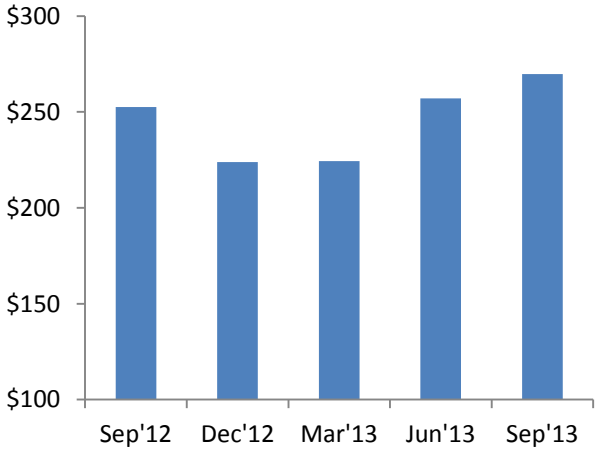
Source: Company Reports and Susquehanna Financial Group

We May be Seeing the Beginning of Recovery (1)

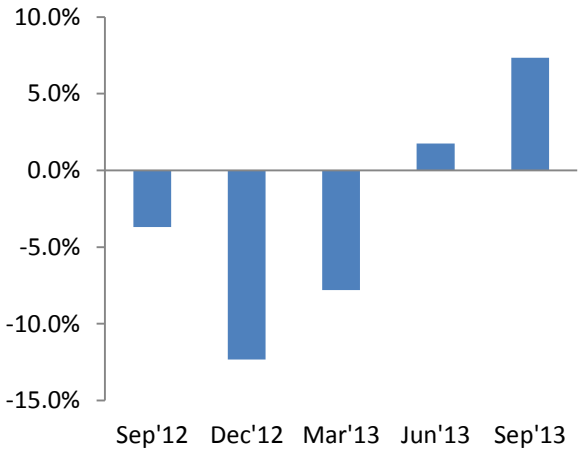


*Source: Company Filings

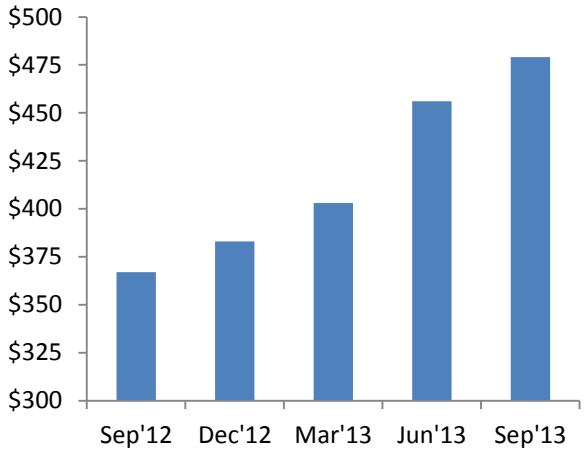
We May be Seeing the Beginning of Recovery (2)



Revenue ($M)



Adjusted Operating Income %



Cash ($M)

*Source: Company Filings, June 2013 revenue adjusted to 13 week s

Summary

IR well positioned for future growth

- High Voltage Products:
  - Benchmark IGBT Platform
  - New µMCM technologies

•COOliRIGBT™

µIPM™

- Digital Power Control

- Next Generation Low- and Mid-Voltage MOSFETs

- Gallium Nitride – Re-entry into High Voltage

Revamping manufacturing footprint and supply chain to increase flexibility and reliability of our supply chain

Strong balance sheet

- **$475M+ in cash, cash equivalents and investments**
- **No debt**