

# Broadcom Corporation Corporate Overview

Q2 2011

## **Cautionary Statement**



This presentation may contain forward-looking within the meaning of the federal securities laws, including the Private Securities Litigation Reform Act of 1995. These forward-looking statements may include the potential growth of the markets in which we compete and the development status and planned availability of new products. In fact, all statements that we make or incorporate by reference in the presentation, other than statements or characterizations of historical fact, are forward-looking statements. It should be clearly understood that these forward-looking statements, and our assumptions about the factors that influence them, are based on the limited information available to us at this date. Such information is subject to change, and we may not inform you when changes occur. We undertake no obligation to revise or update publicly any forward-looking statement to reflect future events or circumstances.

Forward-looking statements are not guarantees of future results and are subject to risks, uncertainties and assumptions that are difficult to predict. Therefore, our actual results could differ materially and adversely from those described in the statements you hear today as a result of various factors. We refer you to our Form 10-K for the year ended December 31, 2010, subsequent and forthcoming 10-Qs and other filings with the SEC, which discuss some of the important risk factors that could contribute to such differences or otherwise affect our business, results of operations and financial condition.

For additional financial and statistical information, including the information disclosed in accordance with SEC Regulation G, please see the Investors section of our website.

Broadcom®, the pulse logo, Connecting everything®, and the Connecting everything logo are among the trademarks of Broadcom Corporation and/or its affiliates in the United States, certain other countries and/or the EU. Any other trademarks or trade names mentioned are the property of their respective owners.

<sup>© 2011</sup> Broadcom Corporation. All rights reserved.

#### **About Broadcom**



- Founded in 1991
- Initial public offering in April 1998 (NASDAQ-BRCM)
- Fortune 500 company
  - Ranked most innovative semiconductor company
- A global leader in semiconductors for wired and wireless communications
- 2010 net revenue of \$6.82 billion
  - Ranked in Top 10 Semiconductors by Revenue in 2010 (Gartner, 2010)
- One of the largest volume fabless semiconductor suppliers
- Broad IP portfolio with over 15,300 U.S. and foreign patents and applications
  - Strongest patent portfolio among fabless semiconductor companies (IEEE)
- Approximately 9,460 employees worldwide





## **Broadcom Organization**



Scott A. McGregor
President and
Chief Executive Officer,
Board Member







Dr. Henry Samueli Co-Founder, Chief Technical Officer, Board Member

**Business Groups** 

#### **Daniel Marotta**

Executive VP & GM, Broadband Communications Group (Home)

#### Rajiv Ramaswami

Executive VP & GM, Infrastructure & Networking Group (Infrastructure)

#### **Robert Rango**

Executive VP & GM, Mobile & Wireless Group (Hand)

#### **Corporate Executives**

#### **Eric Brandt**

Executive VP & Chief Financial Officer

#### Art Chong

Executive VP, General Counsel & Secretary

#### Neil Kim

Executive VP, Operations & Central Engineering

#### **Thomas Lagatta**

Executive VP, Worldwide Sales

#### Terri Timberman

Executive VP, Human Resources

#### Ken Venner

Executive VP, Corp Services & Chief Information Officer

### **Broadcom's Global Presence**

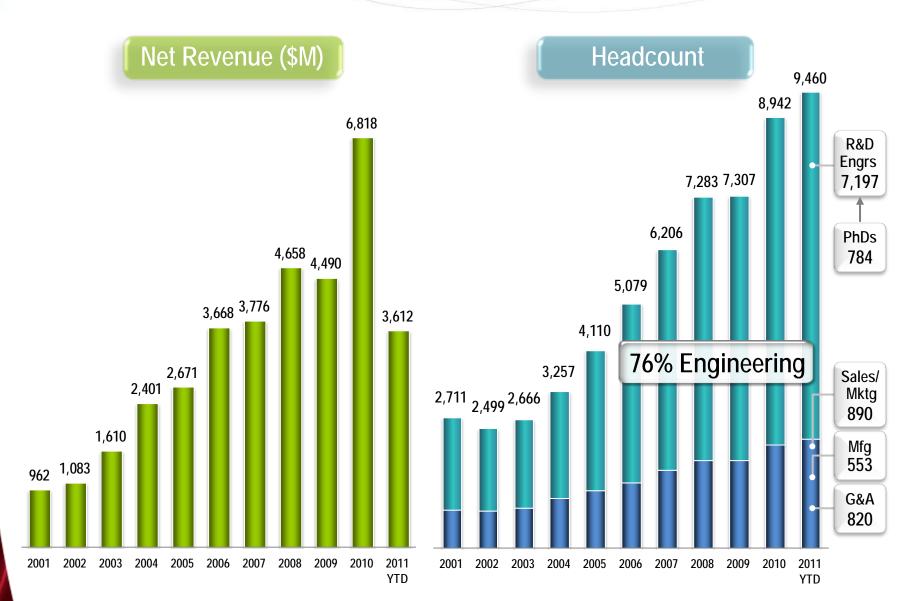




Worldwide locations strategically placed to serve our expanding customer base

## **Investing in Top Talent to Enhance Growth and New Initiatives**





## Sustained Record of Intellectual Property Innovation





## Capitalizing on the Opportunities in Communications and Connectivity



Right Place at the Right Time

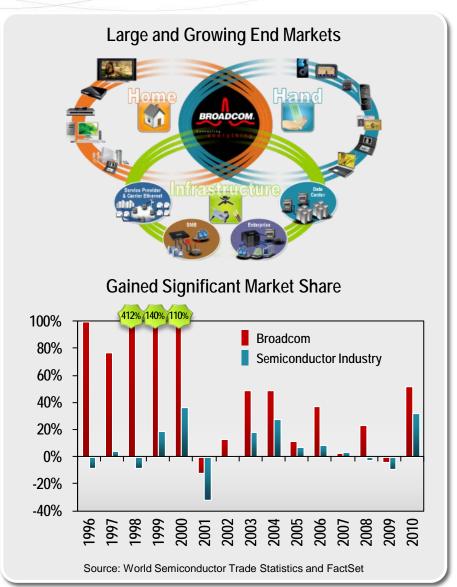
Growing number of connected users

Demand for greater bandwidth

More content available over Internet

Demand for low latency

- Right Products and Technology to Address Communication Needs
  - Home Hand Infrastructure
- Superior Execution
  - Outgrew market 13 out of last 14 years\*
  - A leader in integration
  - Transparency / financial discipline



<sup>\*</sup> Source: World Semiconductor Trade Statistics and FactSet

## 2010 Semiconductor Ranking – Top 25



								everythi
	2009	2010		2009	2010	Growth	Market Share	ever
	Rank	Rank	Vendor	Revenue	Revenue	(2009-2010)	2010	
	1	1	Intel	33,429	41,988	25.6%	14.0%	
	2	2	Samsung Electronics	17,749	28,097	58.3%	9.4%	
	3	3	Toshiba	9,604	12,360	28.7%	4.1%	
	4	4	Texas Instruments	9,142	11,878	29.9%	4.0%	
	5	5	STMicroeletronics	8,460	10,346	22.3%	3.5%	
	11	6	Renesas Electronics	4,542	10,204	124.7%	3.4%	
	7	7	Hynix Semiconductor	6,035	9,884	63.8%	3.3%	
	13	8	Micron Technology	4,170	8,224	97.2%	2.7%	
	6	9	Qualcomm	6,409	7,204	12.4%	2.4%	
12	10	Bro	adcom	4,317	6,60	4 53.	.0%	2.2%
	10	1.1	minicon recimologies	4,000	0,433	J7.470	۷.۱/0	
	16	10	Elnida Mamanu					
		12	Elpida Memory	"Broadcom outperfo	rmed the ov	erall industry	<i>i</i> in 2010 by a	
	9	13	Advanced Micro De	"Broadcom outperfo		,		lowed
	9 14	13 14	Advanced Micro De Panasonic	considerable margin	, with growt	h of 53% ove	r 2009. This al	
	9 14 18	13 14 15	Advanced Micro De Panasonic Freescale Semicon	considerable margin it to climb two positi	, with growt ons and ente	h of 53% ove er the top 10	r 2009. This al for the first tir	ne. All
	9 14 18 15	13 14 15 16	Advanced Micro De Panasonic Freescale Semicon Sony	considerable margin it to climb two positi three of Broadcom's	, with growt ons and ento business u	h of 53% ove er the top 10 nits — broadl	r 2009. This al for the first tir band, mobile a	ne. All and
	9 14 18 15 19	13 14 15 16 17	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor	considerable margin it to climb two positi	, with growt ons and ento business u	h of 53% ove er the top 10 nits — broadl	r 2009. This al for the first tir band, mobile a – performed w	ne. All and vell."
	9 14 18 15 19 21	13 14 15 16 17	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology	considerable margin it to climb two positi three of Broadcom's wireless, and infrast	, with growt ons and ento business ui ructure and	h of 53% ove er the top 10 nits — broadl networking -	r 2009. This al for the first tir band, mobile a – performed w –	ne. All and
	9 14 18 15 19	13 14 15 16 17	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology MediaTek	considerable margin it to climb two positi three of Broadcom's	, with growt ons and ento business u	h of 53% ove er the top 10 nits — broadl	r 2009. This al for the first tir band, mobile a – performed w	ne. All and vell."
	9 14 18 15 19 21 17 23	13 14 15 16 17 18 19 20	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology	considerable margin it to climb two positi three of Broadcom's wireless, and infrast	, with growt ons and ento business ui ructure and	h of 53% ove er the top 10 nits — broadl networking -	r 2009. This al for the first tir band, mobile a – performed w –	ne. All and vell."
	9 14 18 15 19 21	13 14 15 16 17 18 19	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology MediaTek	considerable margin it to climb two positi three of Broadcom's wireless, and infrast	, with growt ons and ento business ur ructure and	h of 53% ove er the top 10 nits — broadl networking - (1.7%)	r 2009. This al for the first tir band, mobile a – performed w –	ne. All and vell."
	9 14 18 15 19 21 17 23	13 14 15 16 17 18 19 20	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology MediaTek SanDisk	considerable margin it to climb two positi three of Broadcom's wireless, and infrast	, with growt ons and ento business un ructure and 3,402 3,253	h of 53% ove er the top 10 nits — broad networking – (1.7%) 50.0%	r 2009. This al for the first tir band, mobile a – performed w – 1.1% 1.1%	ne. All and vell."
	9 14 18 15 19 21 17 23 20	13 14 15 16 17 18 19 20 21	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology MediaTek SanDisk Rohm	considerable margin it to climb two positi three of Broadcom's wireless, and infrast 3,462 2,169 2,866	3,402 3,253 3,250	h of 53% ove er the top 10 nits — broadl networking – (1.7%) 50.0% 13.4%	r 2009. This al for the first tir band, mobile a – performed w – 1.1% 1.1%	ne. All and vell."
	9 14 18 15 19 21 17 23 20 26	13 14 15 16 17 18 19 20 21 22	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology MediaTek SanDisk Rohm Analog Devices	considerable margin it to climb two positi three of Broadcom's wireless, and infrast 3,462 2,169 2,866 2,084 2,601	3,402 3,253 3,250 2,845	h of 53% ove er the top 10 nits — broadl networking – (1.7%) 50.0% 13.4% 36.5%	r 2009. This al for the first tin band, mobile a – performed w – 1.1% 1.1% 1.1% 1.0%	ne. All and vell."
	9 14 18 15 19 21 17 23 20 26 22	13 14 15 16 17 18 19 20 21 22 23	Advanced Micro De Panasonic Freescale Semicon Sony NXP Semiconductor Marvell Technology MediaTek SanDisk Rohm Analog Devices Nvidia	considerable margin it to climb two positi three of Broadcom's wireless, and infrast 3,462 2,169 2,866 2,084 2,601 2,161	3,402 3,253 3,250 2,845 2,786	h of 53% ove er the top 10 nits — broadl networking – (1.7%) 50.0% 13.4% 36.5% 7.1%	r 2009. This al for the first tin band, mobile a – performed w – 1.1% 1.1% 1.1% 1.0% 0.9%	ne. All and vell."

**Broadcom Enters Top 10 Semi Ranking for the First Time** 

### **Broadest Communications Product Portfolio**



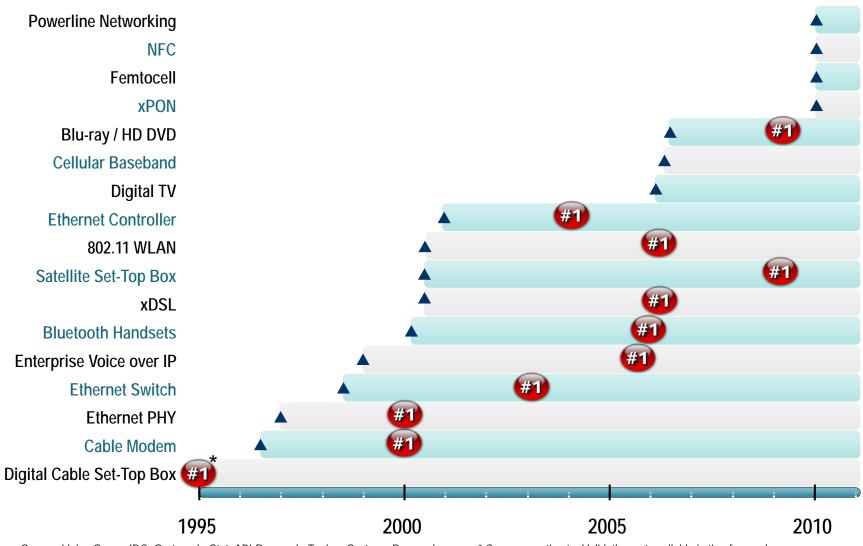
								everytnin
Home	Broadcom	MRVL	QCOM	INTC	STM	TXN	MTK	CSR
Blu-ray	•						•	
Cable modem	•			•	0			
Cable set-top box	•			0	•			
Digital TV	•	0		0	0		<b>(a)</b>	
DSL/GPON modem	<b>(</b>	•	•				0	
Femtocell	<b>(</b>		0					
Powerline networking	<b>(</b>	•	•					
Satellite set-top box	<b>(</b>				<b>(</b>			
Infrastructure								
Controller	•	0	•	•				
EPON	•		•					
Microwave	•							
Optical	•	0						
PHY	•	•	0					
Security/RFID/NFC	<b>(a)</b>	0			•	<b>(</b>		
Storage	0	•		•	0	0		
Switch/Fabric	<b>(</b>	•	0					
Hand								
Apps/MM processors	•		•		•			
Bluetooth	•	0	0		•	•	0	•
Cellular baseband	<b>(a)</b>		•	•	•	0	<b>(a)</b>	
GPS	•		•	0	•	•	0	•
IP communication	•	0			0	<b>(a)</b>		
NFC	0		0		0	0		0
Power management	<b>(</b>		0	0		<b>(</b>	0	
Wireless LAN	<b>(</b>	•	0	0	0	<b>(</b>	<b>(a)</b>	0

Meaningful presence

Little presence or has announced entry / exit

## Track Record of Winning in New Segments





Source: Linley Group, IDC, Gartner, In-Stat, ABI Research, Techno Systems Research

<sup>\*</sup> Company estimate. Validation not available in timeframe shown

## New Technologies Expand Addressable Market



#### Hand



- 4G Cellular
- HSPA+
- 802.11 AC/AD WLAN
- Next generation location (LBS)
- NFC / Payment
- Bluetooth Low Energy
- Next generation video

#### Home



- Powerline Networking (G.hn, Homeplug)
- Femtocell
- MoCA
- Optical (GPON)
- IP Set-Top Box
- VDSL2
- DOCSIS® 3.0
- 3D (STB, TV, Blu-ray)

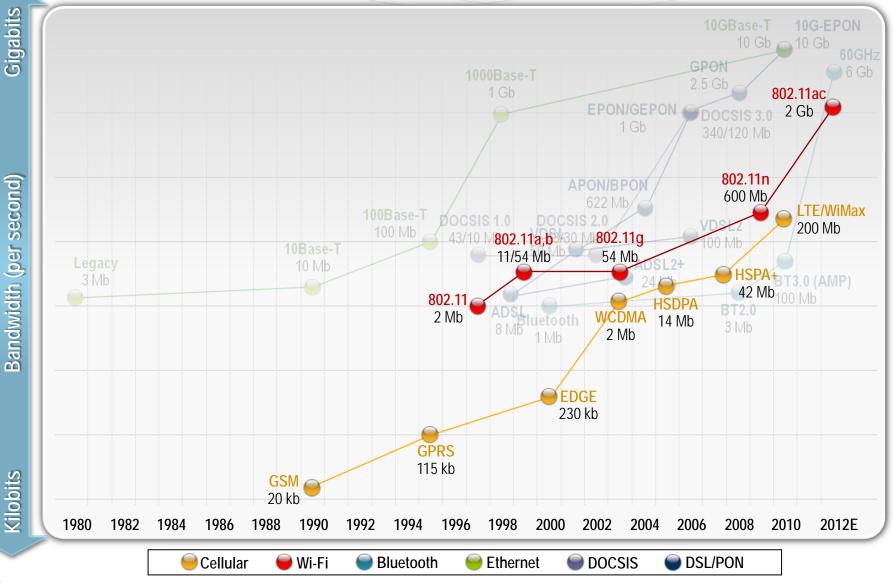
#### Infrastructure



- Optical (EPON)
- 10G, 40G, 100G
- Switch Fabric
- Fiber Channel over Ethernet
- Energy Efficient Ethernet
- Security
- Mobile Backhaul
- Microwave

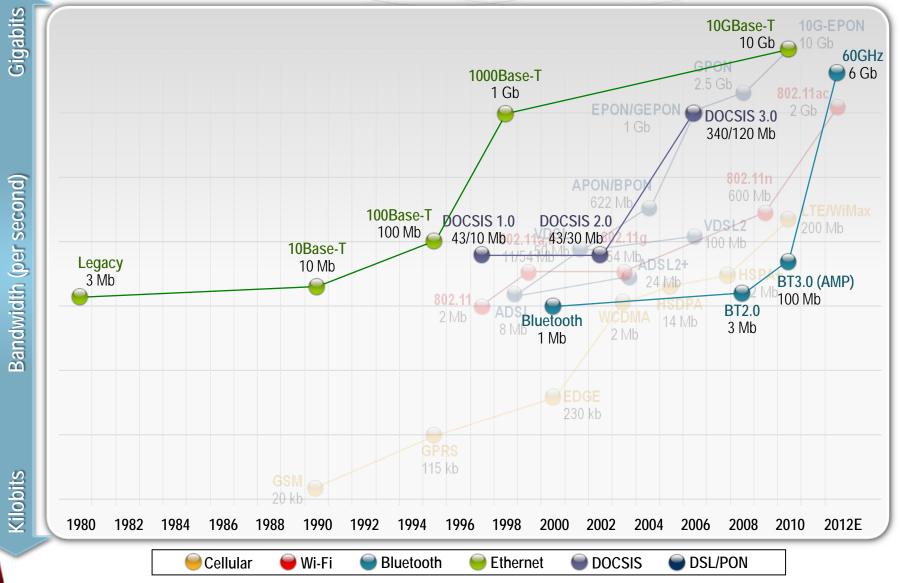
## Wired and Wireless Operators are Constantly Upgrading Networks





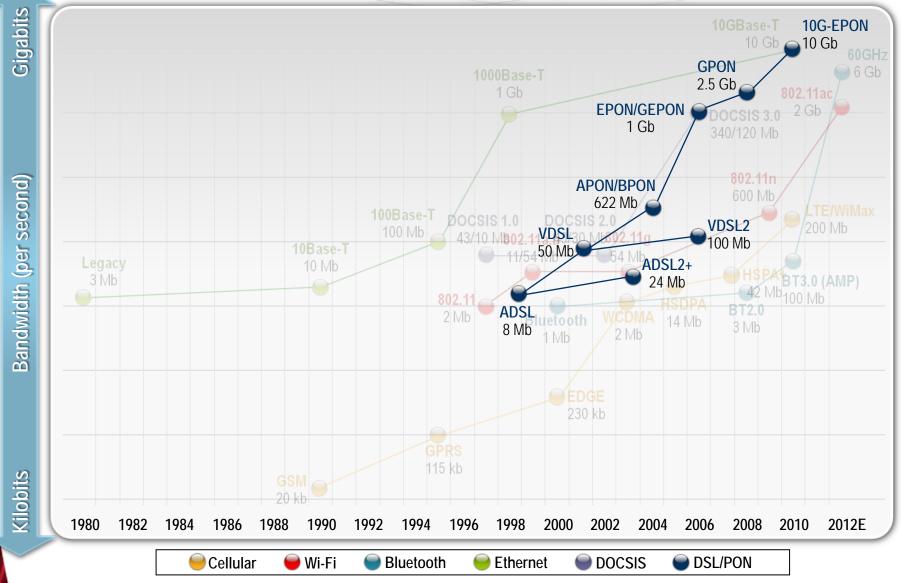
### Wired and Wireless Operators are Constantly Upgrading Networks

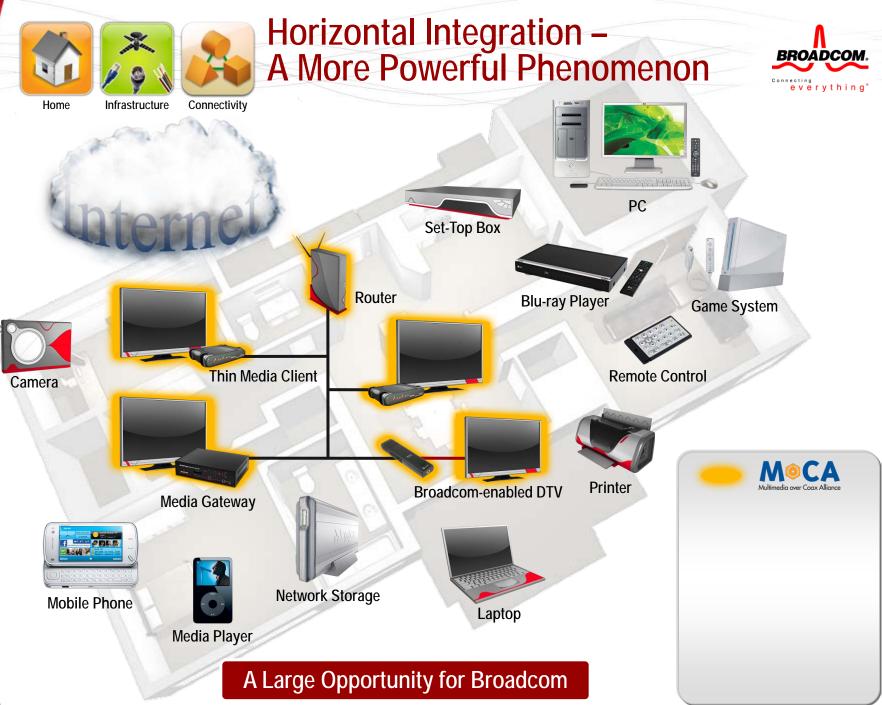




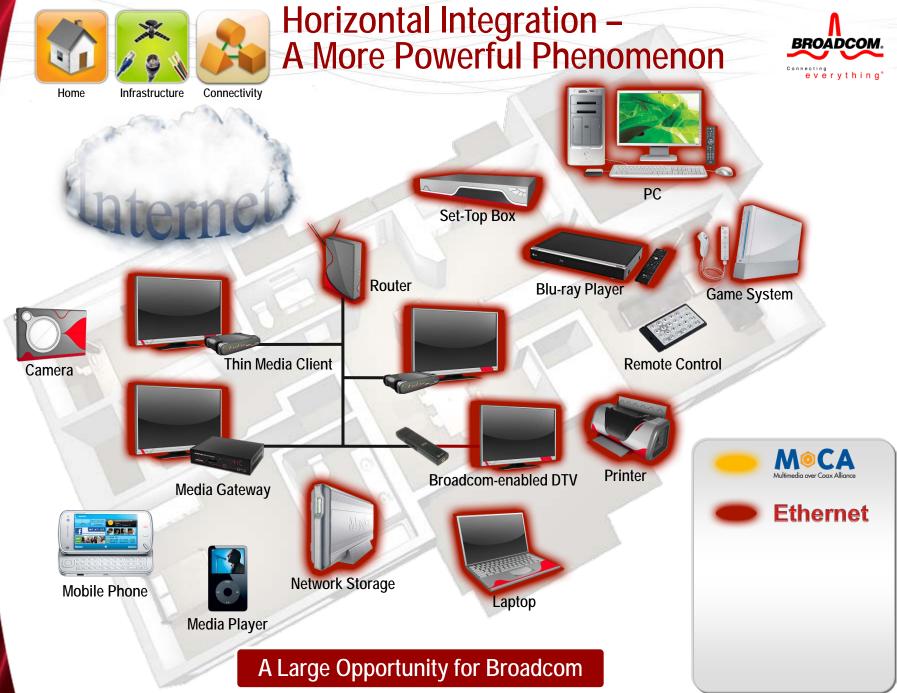
## Wired and Wireless Operators are Constantly Upgrading Networks



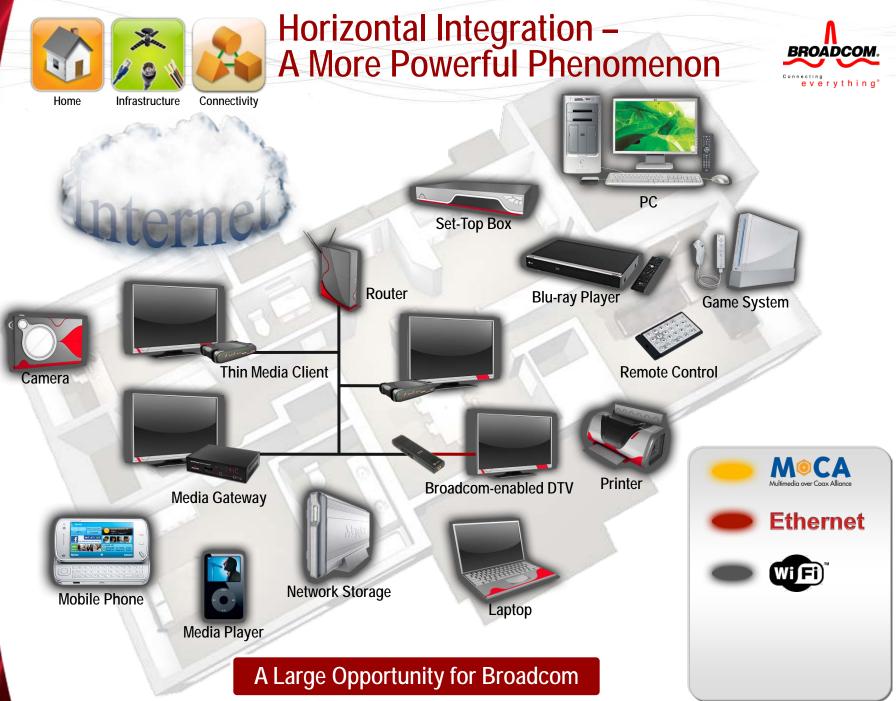




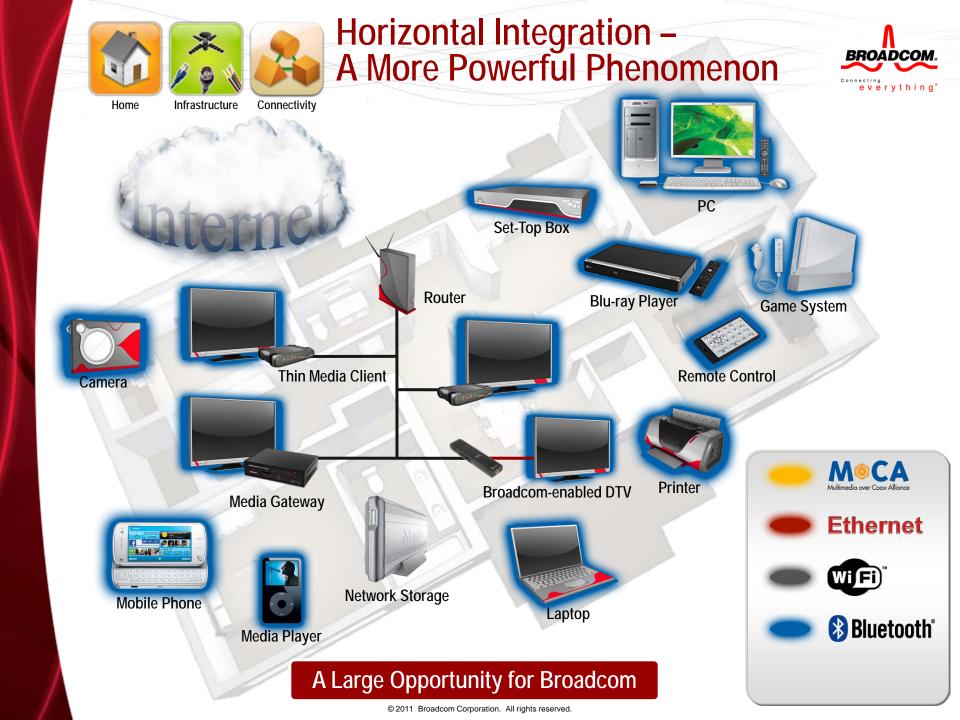
© 2011 Broadcom Corporation. All rights reserved.

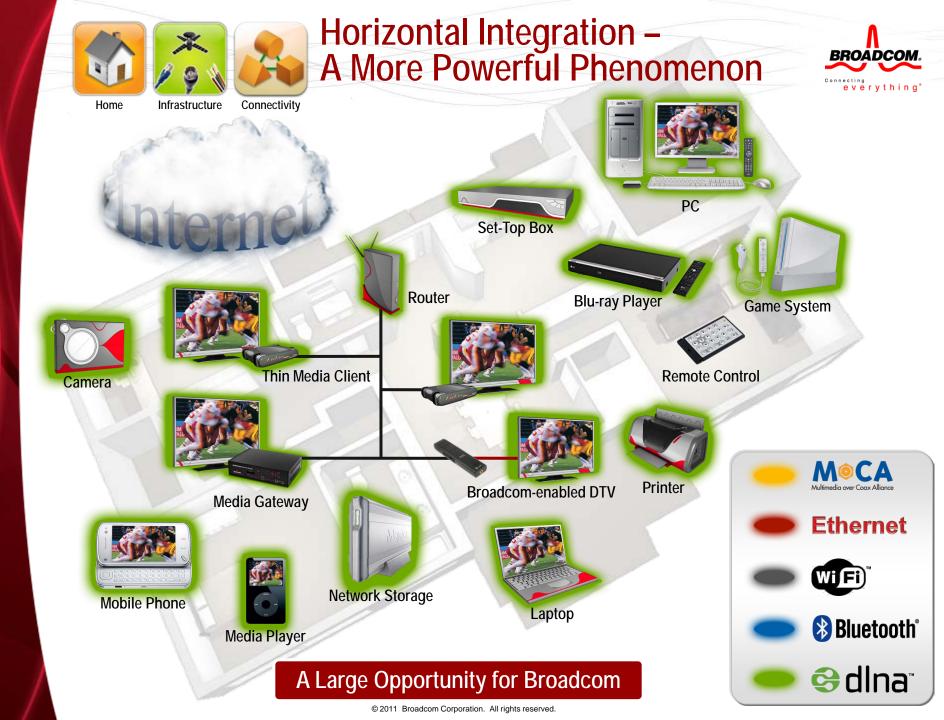


© 2011 Broadcom Corporation. All rights reserved.



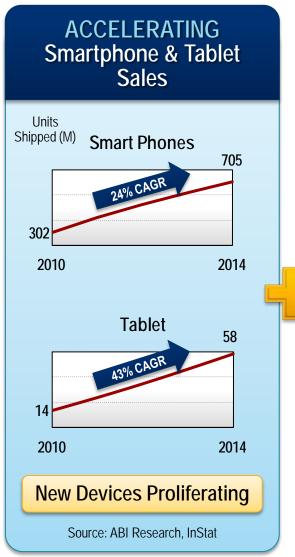
© 2011 Broadcom Corporation. All rights reserved.



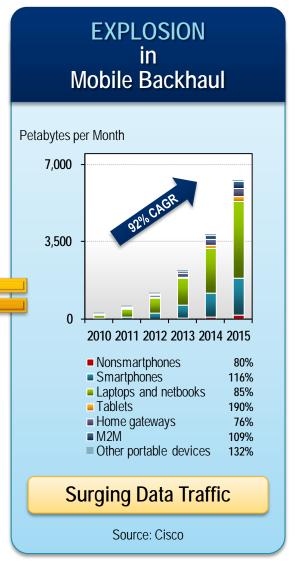


## New and More Devices Lead to Growth in Mobile Backhaul









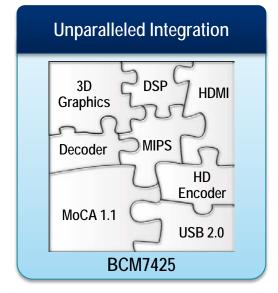
#### **Broadcom: A Leader in Innovation**









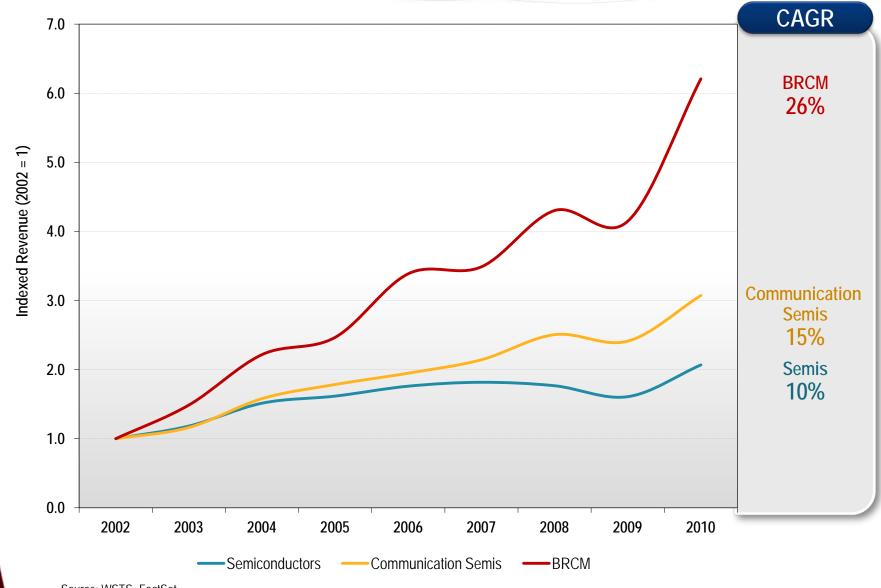






## **Broadcom Outgrows Industry and Peers**





## Powerful Secular Trends Driving Significant Need for Communications Semiconductors



#### **Content / Services**

#### **Network Traffic**





#### **Broadcom Business Overview**









Over 20 lines of business enabling growth in wired and wireless convergence

### **Customer Base of Industry Leaders**



Home (Broadband Communications)



Infrastructure (Infrastructure & Networking)



Hand (Mobile & Wireless)



## **Broadband Group Market Segments**



#### **Set-top Box**



Complete Portfolio of Products to Service the Entire Pay-TV Market

Cable, Satellite, IP and Terrestrial

#### **Broadband Access**



Complete Portfolio of Broadband Access Solutions for Infrastructure and Broadband Gateways

Cable, Cellular, DSL and PON

#### **Consumer Electronics**



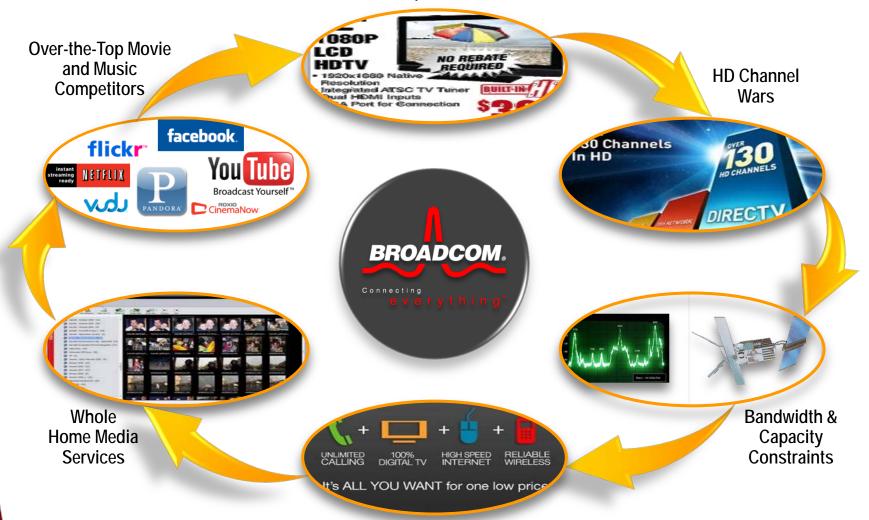
Complete Portfolio Addressing the Global Markets for Digital TV and Blu-Ray Disc

Basic, Connected and Smart Solutions

## Service Provider Virtuous Cycle More Users, More Content, More Bandwidth





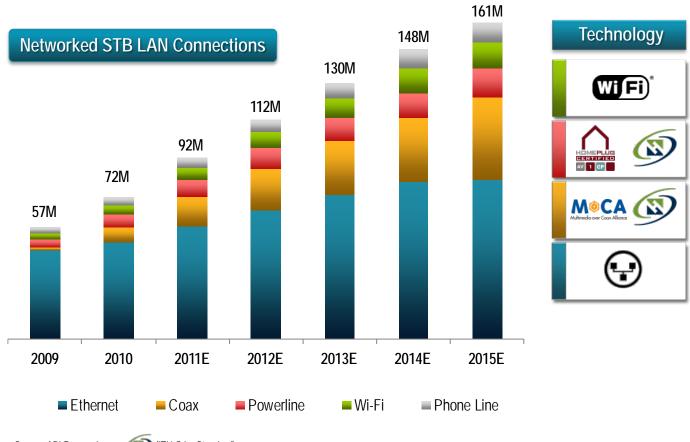


Service Bundles

### **Expanding Home Media Networks:**

Broadcom's Complete Home Networking Portfolio Includes Key Standards to Enable Connected Home/Hybrid Home Network





Source: ABI Research (ITI

(ITU G.hn Standard)

Broadcom supports full range of home networking solutions including MoCA, HomePlug, Wi-Fi and Ethernet

## **Home Connectivity Complete Solutions**



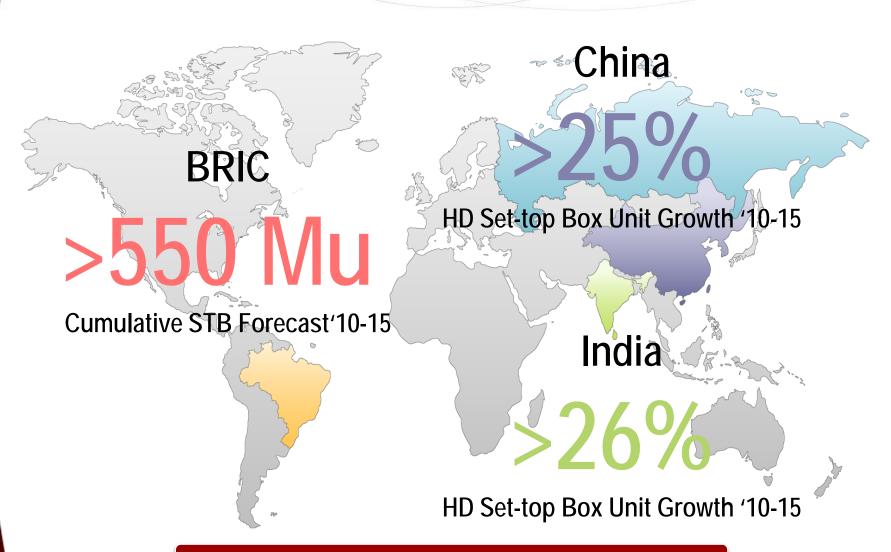


#### INTERCONNECT MEDIA CONNECTIVITY Switching MoCA® Coax Air Xtendnet™ Wi-Fi 802.11n CAT5 IEEE P1905.1 Ethernet (100/1000Base-T) Powerline PQoS / WMM HomePlug® AV / IEEE 1901 CAT3 DLNA HomePlug Green PHY

Providing the strongest mix of media, interconnections, and standards in the industry

## Significant STB Opportunities in Emerging Markets >400 million Pay-TV subscribers by 2015 in BRIC markets





Leader in Set-top Box Silicon Solutions

## **Enriching User Experience in the Home with Connectivity**



 A leadership position in set-top box and broadband modem

#### Solid growth opportunities

- HD migration and international growth in set-top box
- Faster speeds and international growth in broadband access
- New segments: femtocell integration, connected home network deployments
- Complete home networking portfolio including MoCA, Powerline, Wi-Fi, Ethernet and DLNA

<sup>\*</sup> Based on financial metrics reported in Broadcom's Form 10-Q and Form 10-K files. See Notes to Consolidated Financial Statements: Business Enterprise Segments, Significant Customer, Supplier and Geographical Information Certain prior period amounts have been adjusted to conform with the current period presentation.



## Infrastructure Networking Group Market Segments BROADCOM.



Enterprise Service Provider **Data Center** SMB, Home

### **Broadcom Infrastructure & Networking Group Product Segments**



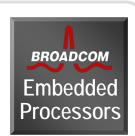














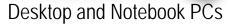


















Storage Sub-Systems







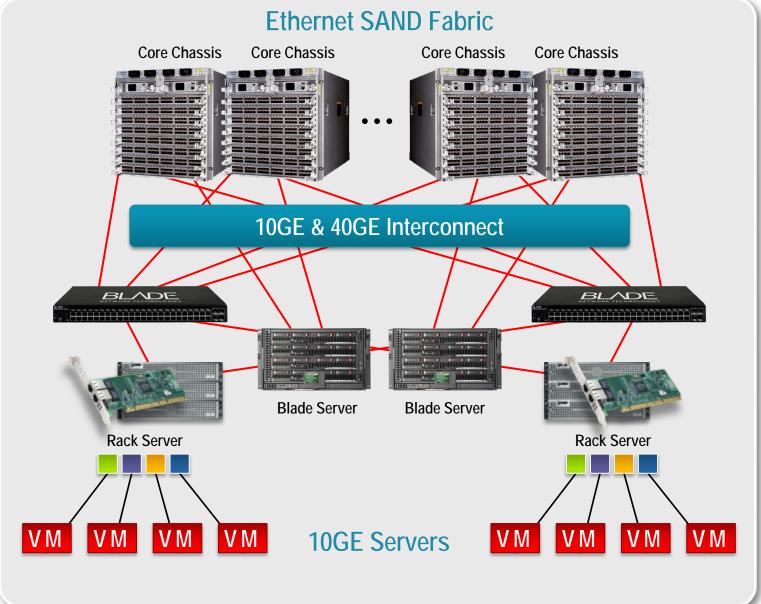






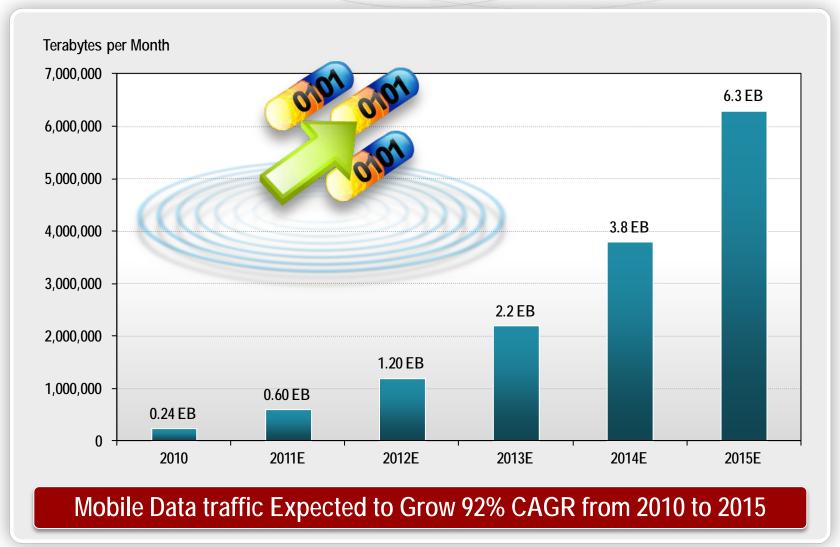
### Most Compelling Solution for Data Center





# **Exponential Growth in Wireless Traffic Driving Transition to 4G**

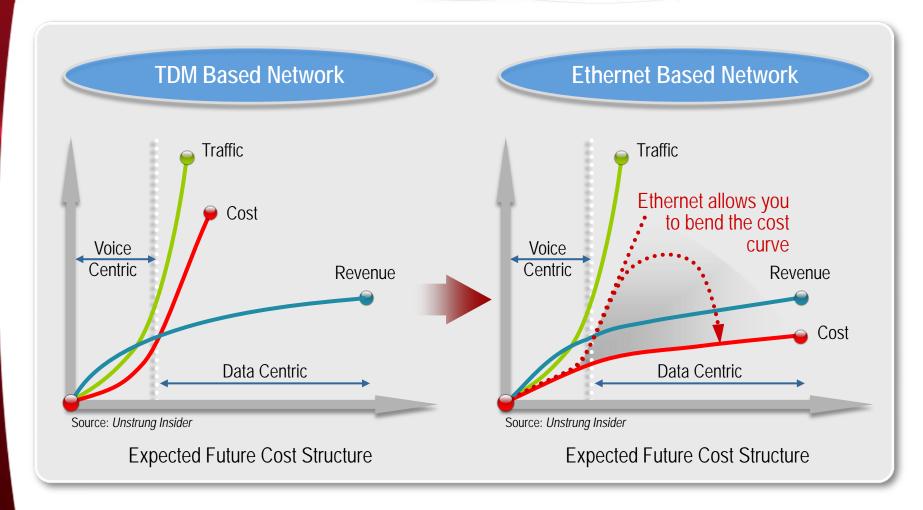




Source: Cisco, Visual Networking Industry Report, Mobile Network Forecast

# Broadband and Wireless Access Ethernet Addresses Bandwidth Growth Challenge



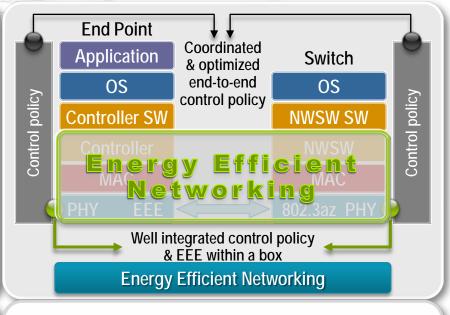


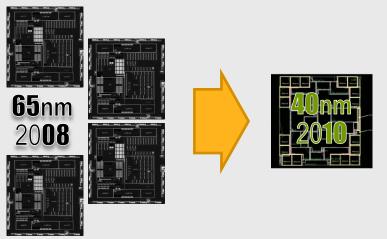
Ethernet migration still in its early stages

### **Delivering on Energy Efficiency**









**Process & Integration Efficiencies** 



Saves 20W-60W per port!

Stateless & Stateful Offloads

## Driving Convergence of Next-Generation Infrastructure



- Leadership position in Ethernet connectivity
  - Switch, PON, Controller, PHY
  - Mobile & microwave backhaul
- Solid growth opportunities
  - 10GbE transition in the data center
  - Ethernet migration for service providers
  - Mobile backhaul
  - Data center convergence
  - Virtualization
  - Cloud computing



<sup>\*</sup> Based on financial metrics reported in Broadcom's Form 10-Q and Form 10-K files. See Notes to Consolidated Financial Statements: Business Enterprise Segments, Significant Customer, Supplier and Geographical Information Certain prior period amounts have been adjusted to conform with the current period presentation.

### Mobile & Wireless Group Market Segments



#### Mobile



Complete portfolio of smartphone, handset, PND, headset and mobile platform solutions

Bluetooth, Wi-Fi, GPS, NFC, Cellular, Apps Processors, PMU, Mobile Multimedia

### Computing



Wireless connectivity and networking products enabling transformation in notebooks, tablets and emerging computing platforms

Bluetooth, Wi-Fi, GPS, NFC, Cellular modems

### **Consumer Electronics**



Digital TV, 3D glasses, gaming consoles and Blu-ray Disc®
System Solutions

Bluetooth, Wi-Fi, NFC

## **Smartphone Segment Continues to Grow**





\*Source: IDC

### **KEY ENABLING TECHNOLOGIES**

















Low-Cost Smartphones Outpace Smartphones, Handsets

# Wireless Connectivity Attach Rates Continue to Rise in Consumer Devices



		2008	2014
		2006	2014
> 5 BU Consumer Electronic Devices in 20	Control Contro	Wi-Fi GPS Bluetooth (BT)	Wi-Fi Bluetooth (BT) GPS NFC
			Wi-Fi Bluetooth (BT) GPS NFC
	14	Wi-Fi BT	Wi-Fi Bluetooth (BT) GPS NFC
Attach Rate		Wi-Fi BT	Wi-Fi Bluetooth (BT) NFC
Medium			Wi-Fi Bluetooth (BT) NFC
High			Wi-Fi GPS BT
			Wi-Fi BT
		GPS BT	Wi-Fi BT GPS
	1		ВТ
Source: ABI Research, 2010		% WC Attach Rate	% WC Attach Rate

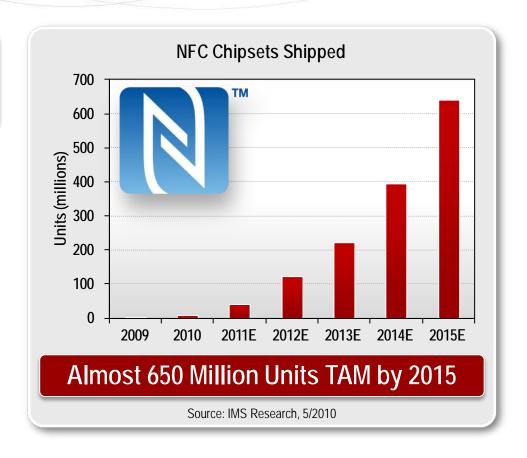
## **Emerging Opportunity:**Near Field Communications



Enabling the next major advancement in the mobile user experience







## **4G LTE Market Opportunity**







4x the Speed of 3G **Better Spectral Efficiency** Lower Power/Cost Per Bit

#### Consumer Electronics













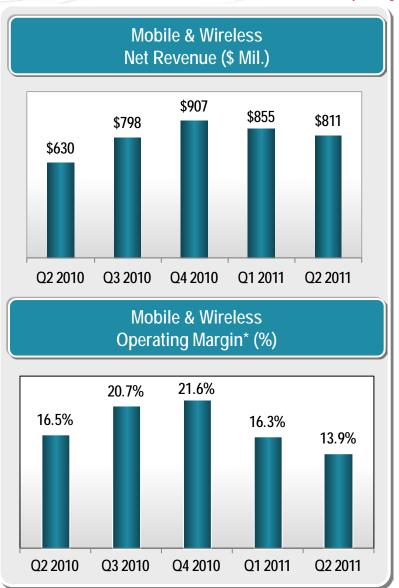
**Mobile Computing** 

© 2011 Broadcom Corporation. All rights reserved.

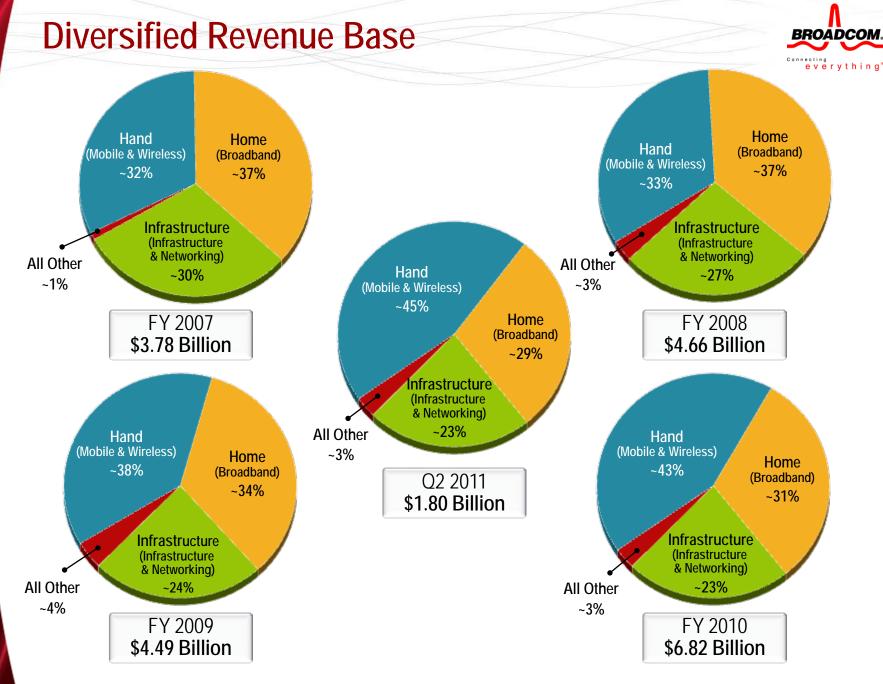
# **Enabling Ubiquitous Mobility For Connected World**



- A leadership position in connectivity and "combo" solutions
- Solid growth opportunities
  - Increasing attach rates
  - More devices demanding connectivity
  - Rise of low-cost smartphones; Android
  - New use cases
  - Emerging technologies (BLE, 802.11ac/ad, NFC, 4G)
- All necessary technologies to enable worldwide smartphone proliferation



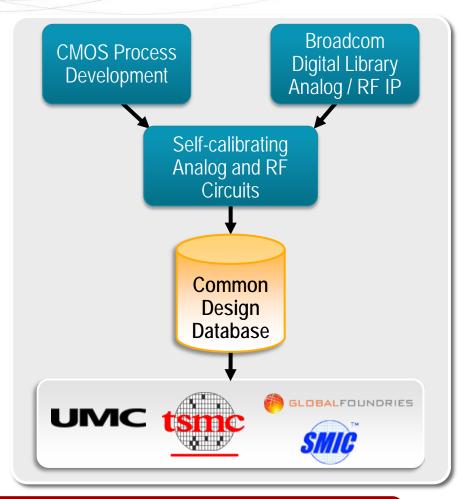
<sup>\*</sup> Based on financial metrics reported in Broadcom's Form 10-Q and Form 10-K files. See Notes to Consolidated Financial Statements: Business Enterprise Segments, Significant Customer, Supplier and Geographical Information Certain prior period amounts have been adjusted to conform with the current period presentation.



### **Broadcom Manufacturing Strategy**



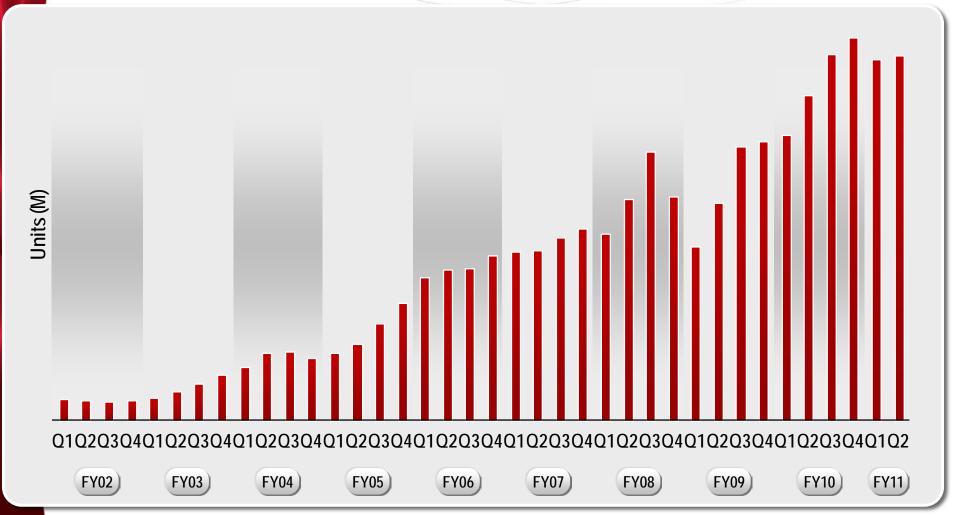
- Utilize state-of-the-art technologies to achieve optimum cost and performance
  - Standard logic CMOS process
  - Standard assembly packages
  - Standard test system platform
- Multi-sourcing strategy
  - Wafer fabrication
  - Assembly and packaging
  - Test services



Common design between multiple foundries provides optimal flexibility and cost competitiveness

# One of the Largest Volume Fabless Semiconductor Suppliers

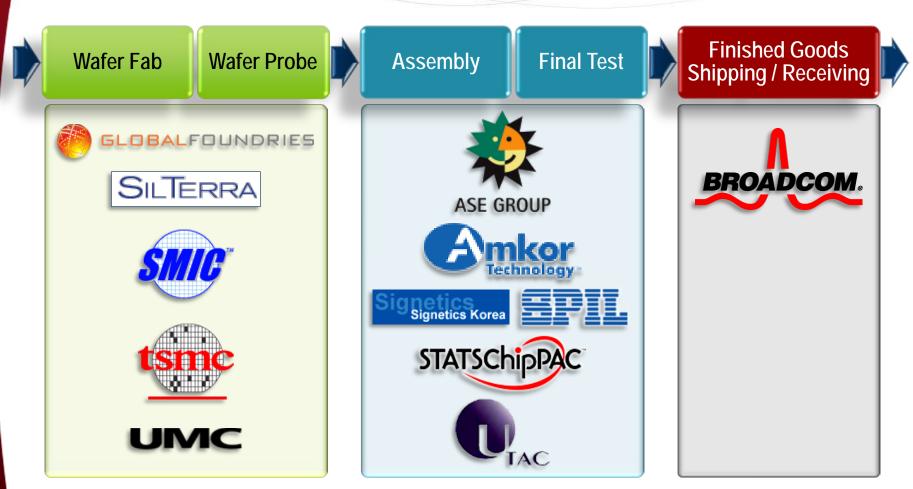




Demonstrated track record of execution

### **Fabless Business Model**





Diversified supplier base achieves optimum cost and availability

### The Broadcom Advantage



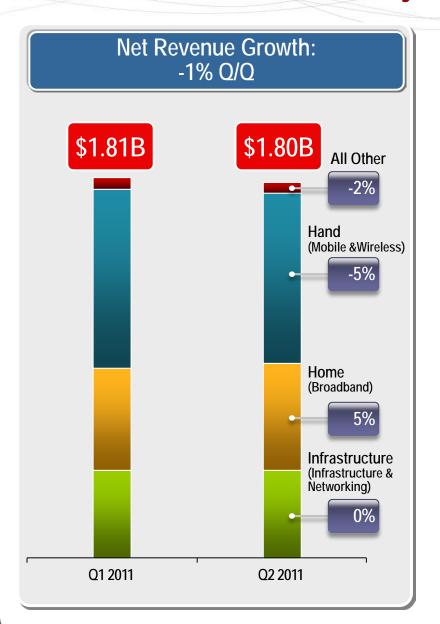


- Addressing a number of large and growing end markets
- Broad IP portfolio enabling silicon integration and complete system solutions
- Platform convergence is both horizontal and vertical
- World class engineers and a culture of superior execution
- Consistently strong cash flow



## Q2 2011: Revenue and Adjusted GAAP EPS









**Broadcom Corporation** Unaudited GAAP Condensed Consolidated Statements of Cash Flows (In millions)

Unaudited GAAP Condense	ed Consolidate	l Statemen	ts of Cash	Flows					Connecting	
(In millions)										
	Q1'09	Q2'09	Q3'09	Q4'09	Q1'10	Q2'10	Q3'10	Q4'10	Q1'11	Q2'11
Operating activities										
Net income (loss)	\$ (92)	\$ 13	\$ 85	\$ 59	\$ 210	\$ 278	\$ 328	\$ 266	\$ 228	\$ 175
Adjustments to reconcile net income (loss) to net cash provided by operating activities:										
Depreciation and amortization	22	14	11	27	20	18	20	21	23	28
Stock-based compensation expense:										
Stock options and other awards	47	39	40	34	35	29	23	34	40	34
Restricted stock units	77	84	89	87	92	90	90	91	105	102
Acquisition-related items:										
Amortization of purchased intangible assets	8	8	8	7	10	14	12	23	22	22
Impairment of intangible assets	_	11	8		_		2	17	9	74
Non-cash settlement gains	_		_	_	_	_				(14)
Non-cash restructuring charges, net	3	(1)	1	(5)						(14)
Loss (gain) on sale of marketable securities	(1)		1	(3)	-	-	-	-	=	-
	(1)	-	-	-	-	-	-	-	=	-
Change in operating assets and liabilities:	17	(80)	(07)	. 27	(0.4)	(01)	(100)	(2)	50	02
Accounts receivable	17	(89)			(94)	(81)				93 34
Inventory	101	(14)			(34)	(86)				
Prepaid expenses and other assets	(1)			(11)	13	10	12	(8)		(4)
Accounts payable	(77)		33	10	44	58	27	17	(70)	(71)
Deferred revenue and income	-	101	(20)		(10)	(9)			(9)	(10)
Accrued settlement costs	-	7	-	164	(1)	(162)		44	-	3
Other accrued and long-term liabilities	(13)	5	78	(21)	(17)	37	107	(1)	(94)	23
Net cash provided by operating activities	91	328	236	332	268	196	455	452	333	489
Investing activities										
Net purchase of property and equipment	(12)	(14)	(23)	(18)	(18)	(29)	(35)	(27)	(45)	(52)
Net cash received from (paid for) acquired companies and other purchased intangible assets	2	- (1-7)	(1)		(102)		(48)			(344)
Sales (purchases) of strategic investments		_	(2)		(5)	(3)		4		(344)
Purchases of marketable securities	(110)				(65)	(418)			(654)	(770)
Proceeds from sales and maturities of marketable securities	133	288	316	134	189	181	353	744	795	1,065
Net cash provided by (used in) investing activities	13	(127)	(257)	(131)	(1)	(269)	(664)	(1,245)	96	(101)
Financing activities										
Issuance of long-term debt	-	-	-	-	-	-	-	691	-	-
Repurchases of Class A common stock	-	(38)			(154)	(121)		(5)		(249)
Proceeds from issuance of common stock	5	79	53	90	82	164	126	564	112	104
Dividends paid	-	-	-	-	(40)	(40)	(41)	(42)	(48)	(49)
Payments of assumed debt	-	-	-	-	(15)	-	-	-	-	-
Minimum tax withholding paid on behalf of employees for restricted stock units	(16)	(19)	(25)	(24)	(29)	(34)	(34)	(39)	(57)	(34)
Net cash provided by (used in) financing activities	(11)	22	(141)	(149)	(156)	(31)	51	1,169	(414)	(228)
Increase (decrease) in cash and cash equivalents	93	223	(162)	52	111	(104)	(158)	376	15	160
Cash and cash equivalents at beginning of period	1,191	1,284	1,507	1,345	1,397	1,508	1,404	1,246	1,622	1,637
Cash and cash equivalents at end of period	\$ 1,284	\$ 1,507	\$ 1,345	\$ 1,397	\$ 1,508	\$ 1,404	\$ 1,246	\$ 1,622	\$ 1,637	\$ 1,797
Unaudited Supplemental Financial Information										
•••	¢ 1394	\$ 1.507	\$ 1.345	¢ 1207	\$ 1,508	\$ 1,404	¢ 1246	¢ 1.600	¢ 1 627	\$ 1.797
Cash and cash equivalents	\$ 1,284		. ,	\$ 1,397			\$ 1,246	\$ 1,622	\$ 1,637	, , , , , ,
Short-term marketable securities	678	700	561	532	536	644	1,148	1,035	645	829
Long-term marketable securities		93	471	439	311	441	520	1,401	1,649	1,174
	\$ 1,962	\$ 2,300	\$ 2,377	\$ 2,368	\$ 2,355	\$ 2,489	\$ 2,914	\$ 4,058	\$ 3,931	\$ 3,800
Total cash, cash equivalents and marketable securities										
Total cash, cash equivalents and marketable securities Increase (decrease) from prior quarter end	\$ 64	\$ 338	\$ 77	<u>\$ (9)</u>	\$ (13)	\$ 134	\$ 425	\$ 1,144	\$ (127)	\$ (131)
		\$ 338 \$ 328	\$ 77 \$ 236		\$ (13) \$ 268	\$ 134 \$ 196		\$ 1,144 \$ 452		\$ (131) \$ 489
Increase (decrease) from prior quarter end	\$ 64	\$ 328		\$ 332		<del></del>		<del></del>		

