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Hyatt Regency • May 15-17, 2007 • Santa Clara, California

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Phone-Ready PCs

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Agenda

- VoIP Expansion Beyond Skype
 - How It All Got Started
 - Example solutions
 - Average Cost of Customer Acquisition
 - VoIP Service Provider's Challenge
 - VoIP in PCs vs. Modems or Routers
 - The PC with ATA Functionality
- PC Expansion Beyond Desktop
 - PC is the Center of Digital Life
 - PC Purchase Experience
 - Benefits of Phone-Ready PC
- What's Being Developed
 - Intel, Systemax, Asus, AMD
- Summary



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VoIP Expansion Beyond Skype

VoIP is now a reality

- Key Market drivers
 - Cost savings
 - primarily long distance
 - New services
 - feature rich functions
- Strong deployments materializing in 4 product categories
 - Cable eMTAs (MSOs)
 - DSL IADs (Telcos and ITSPs)
 - FTTx / PON equipment (Telcos)
 - MSAP/IMS (Telcos

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TARAN Broadband	5.0
Francetelcom.com	2.5
Vonage	2.2
n 9UF cegetel	2.2
Comcast.	2.0
	1.9
free	1.7
NTT Communications	1.5
MACABLEVISION	1.1
FASTIJJEB	1.1



Subscribers (in Millions)

TMC

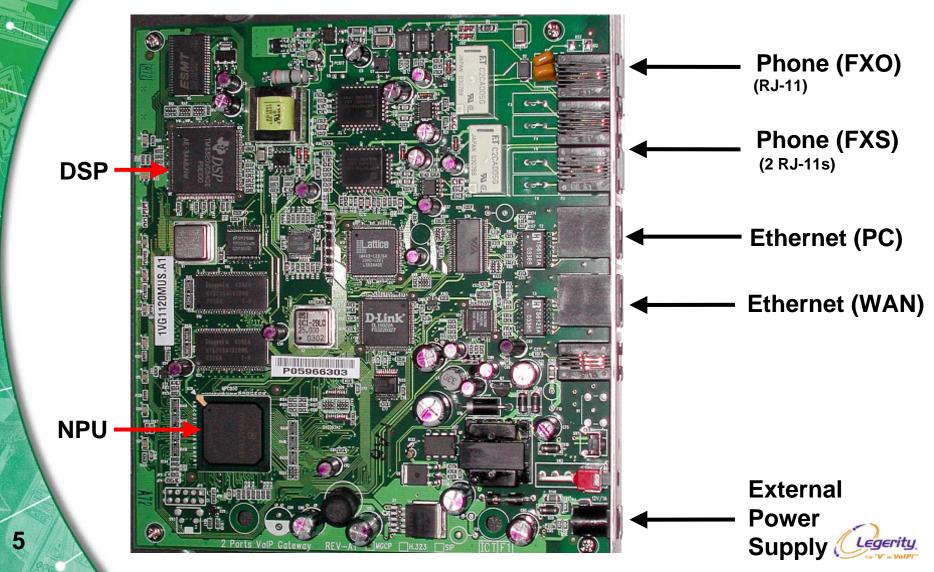
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COMMUNICATIONS DEVELOPER CONFERENCE Hyst Regency • May 15-17, 2007 • Santa Clara, California How It All Got Started



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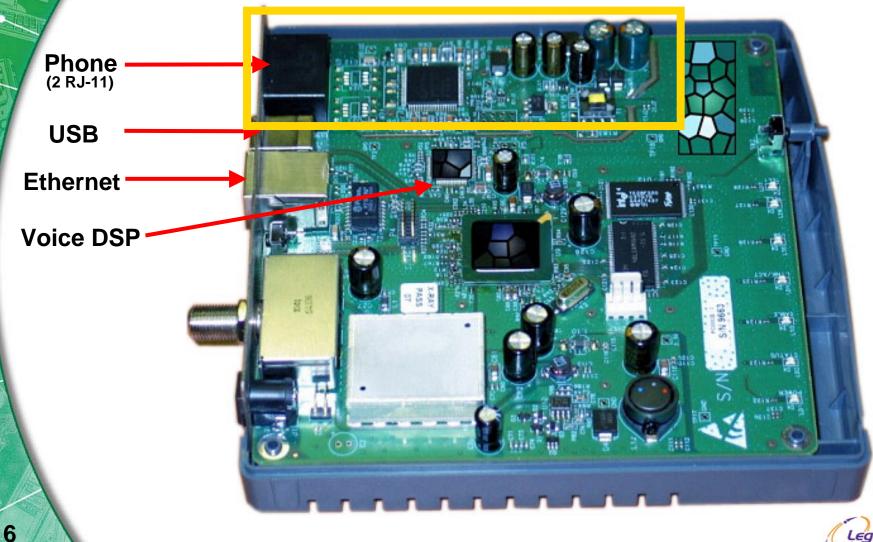
2 Ports D-Link / AT&T CallVantage VoIP Gateway



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VoCable Modem Design Example

Embedded 2 Ports VoIP Gateway

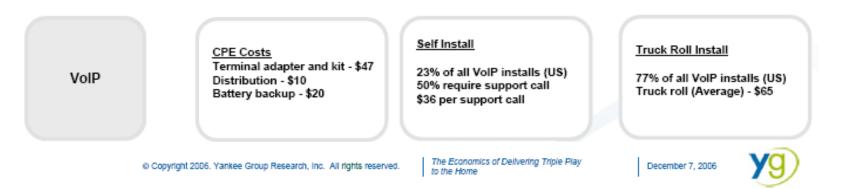




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COMMUNICATIONS DEVELOPER CONFERENCE AVERAGE Cost of Customer Acquisition

The Service Provider Vision – Operational Cost Highlights



According to Yankee Group

- 77% of VoIP installation (in US) requires a truck roll at \$65 per install
- 50% of self installation results in a tech-support calls at \$36 per call
- CPE VoIP equipment costs ~\$47 per customer
- The overall cost of advertising, retail, and support easily doubles the attached cost estimates
- In Q1'07, Vonage's Marketing Cost per Gross Subscriber Line = \$275



VoIP Service Provider's Challenge

- VoIP Service Providers (VSPs) like Vonage, Packet8, and others are challenged by MSOs and Telcos as their cost of customer acquisition is very high
 - Spending ~\$25-\$50 subsidizing VoIP Gateway Hardware
 - High cost for advertising to attract customers
 - High cost to carve out shelf space within retail establishments
 - Time spent supporting new customers installation
- On the other hand, MSOs and Telcos are bundling Voice as an incremental service over Video and Data



VoIP in PCs vs. Modems or Routers

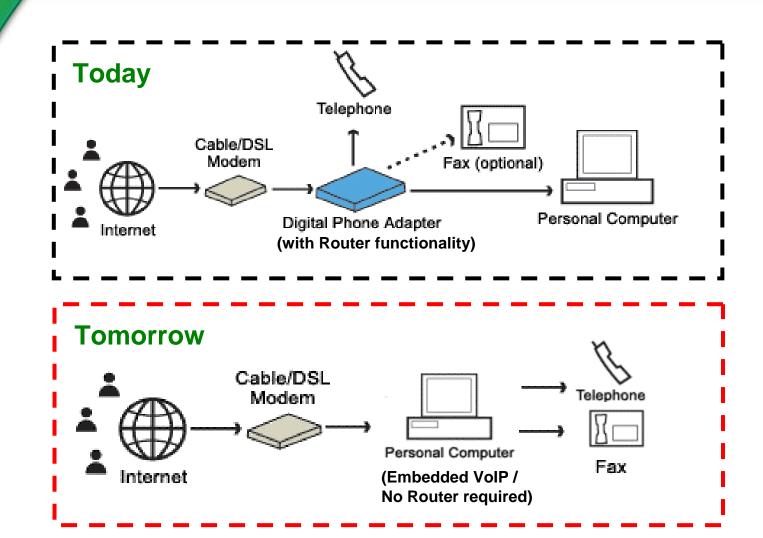
- Modems (Cable / DSL) or Routers (Wired or Wireless) are usually single function gear
 - Modem / Router market is fragmented and not standards driven
 - Modem / Router still depend on separate DSP core for VoIP
 - There is no easy path to provide future enhancements or benefit from any recurring revenue
- PCs are standards-driven multi-function devices (Microsoft, Intel, AMD,..)
 - Advantages of embedding VoIP within PC
 - Smaller upfront equipment cost
 - Lower cost of customer acquisition and support
 - Overall PC ASP goes down as VSPs offer bundling rebate
 - PC offers a viable infrastructure for future enhancements
 - Accelerates VoIP adoption as the PC offers a proven "try before you buy" model



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The PC with ATA Functionality





PC Expansion Beyond Desktop

PC's have been evolving and are being integrated into our daily life

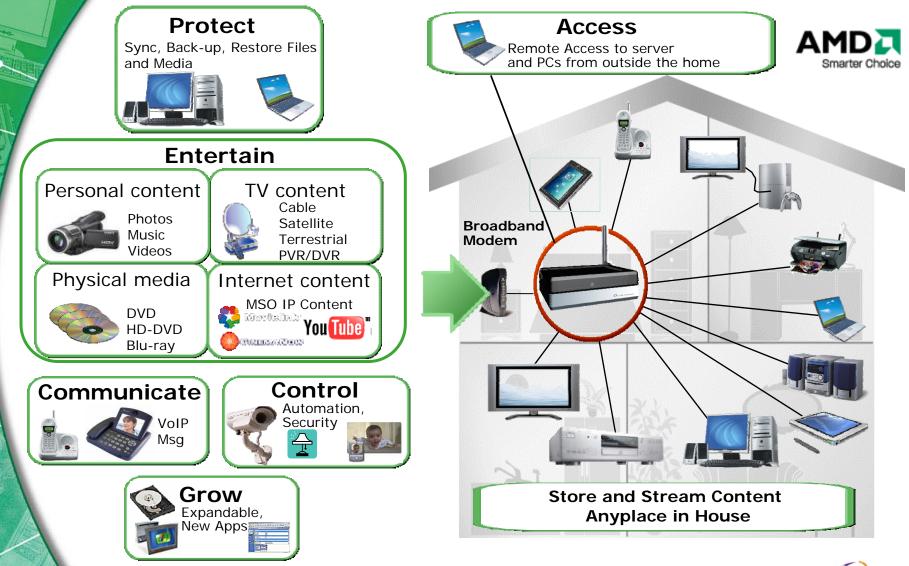
– Our digital life now includes :

- Multimedia: Photos, Music, Movies
- Entertainment : DVD Movies, Live TV
- Education : Distant Learning, Internet
- Home Automation : Security, Control
- Accessibility: Broadcast within the house or more
- Portability : Mobile, PDA
- Communications : Messaging, Net Telephony



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PC is the Center of Digital Life





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PC Purchase Experience

BUILD YOUR SYSTEM



Select a High-Speed Provider

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Shop by High-Speed Provider Shop by Promotion Help Me Choose										
Location: (512) 301-3666 7000 Bee Caves Rd , Austin, TX 78746 Change Location										
Narrow Your Results										
By Provider: By Monthly Fee: By Access method:	View All High-Speed Plans									
Show All Items 💌 Show All Items 💌 Show All Items 💌 👄 Filter Results										

For a detailed side-by-side comparison of the plans available in your area, click on the check boxes below, then click Compare. You can compare up to 5 plans at once. Click "Select" to choose a plan, close this pop-up and return to customizing your system.

Note: billing for High-Speed Internet access is not reflected in the price of your system. You will be billed at a later date.

DIRECWAY \$59.99 \$199.99 Up to 700Kbps Satellite 15 months DIRECWAY Satellite "Home" Plan - Upfror Purchase Se BUY	▶ Compare	Sort by Provider	Sort by Monthly Fee	Sort by Installation Fee	Sort by Download Speed			Plan	Details		
DIRECWAY \$59.99 \$199.99 Up to 700Kbps Satellite months Home" Plan - Upfror Purchase WHEN YOU BUY		🖉 EarthLink [:]	\$41.95	\$0.00	•	Cable	None	EarthLink High Speed		Ð	Select
DIRECWAY!		Direcway	\$59.99	\$199.99		Satellite		"Home" Plan - Upfror	MAIL-IN REBATE WHEN YOU	Ð	Select



Benefits of Phone-Ready PC

- Cost of customer acquisition is low
 - No need to spend millions in advertising
 - No need to waste time & money on retail channel
 - No need to hold every customer's hand during initial installation
 - Your PC comes pre-configured with VoIP (HW and SW)
 - Customer just plug in their current phone into the new Phone-Ready PC
- PC OEMs already offer Broadband connectivity as a "bundled" service, VoIP is yet another incremental offering
- PC industry can really help accelerate VoIP adoption by offering the proven AOL "Try before you buy" model



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What's Being Developed





FORMERLY VOIP DEVELOPER CONFERENCE MMUNICATIONS Intel Phone-Ready PC ency • May 15-17, 2007 • Santa Clara, Californ

In Q306, Intel developed a HD VoIP adapter

- The solution provides Phone connectivity via a HD adapter with Packet8 or Skype **VoIP** service
 - This is being developed under Intel's vPro initiative targeted at the Enterprise MB market and highlighted at various Intel Developer Forum (IDF) shows as part of it's concept PC platform

PhonePort ())



Le98186 Device

inte vPro

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Intel Concept PC demo platform









Intel HD VoIP adapter



Systemax Venture VoIP PC

In Q4'06, Systemax launched the Venture VoIP PC

 The solution provides Phone connectivity via a PCI adapter with pre-configured Packet8 VoIP service bundle offering \$50 rebate



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> Price: \$349.72 Less Rebate: - \$50.00

Final Price: \$299.72*

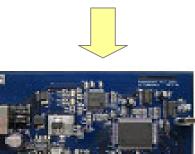


 \$50 Rebate. Expires on
 12/31/2006. Click Here for Rebate TERMS & CONDITIONS Notice: Activation of Packet8 Softalk service is required in order to qualify for this offer.





Le96136 Device



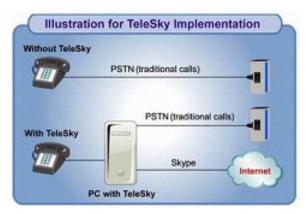
Legerity PCI VoIP Ref. design



ASUS VoIP-Enabled Motherboard

- In Q4'06, Asus announced it's VoIP-enabled Motherboard bundle
 - ASUS TeleSky[™] telecom adaptor and 60 SkypeOut
 Minutes bundled with Two New ASUS Motherboards
 - The solution provides Phone connectivity via a an internal USB module with pre-configured Skype service











Asus' M2N TeleSky MB



Asus' P5B TeleSky MB

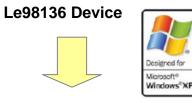


COMMUNICATIONS **AMD Media Home Server** DEVELOPER CONFERENCE

- In Q107, AMD started to demo VoIP as part of their Media Home Server PC
 - The solution provides Phone connectivity via a HD adapter with Packet8 or Skype VoIP service
 - The key enticement is ~ \$100 rebate from the Service provider









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AMD DTX Media Home Server











Legerity HD VoIP Ref. Design



Summary

- Computational and Communication devices are converging, allowing PCs to be the center of all of your communication needs
- The Phone-Ready PC benefits the entire food chain
 - Smaller upfront equipment cost
 - Lower cost of customer acquisition and support
 - Overall PC ASP goes down as VSPs offer bundling rebate (~\$100)
 - Accelerates VoIP adoption as the PC offers a proven "try before you buy" model
 - The PC offers a viable infrastructure for future enhancements
 - Customer acquisition rebate and sharing of recurring revenue benefits all the key stakeholders from VoIP subscription

