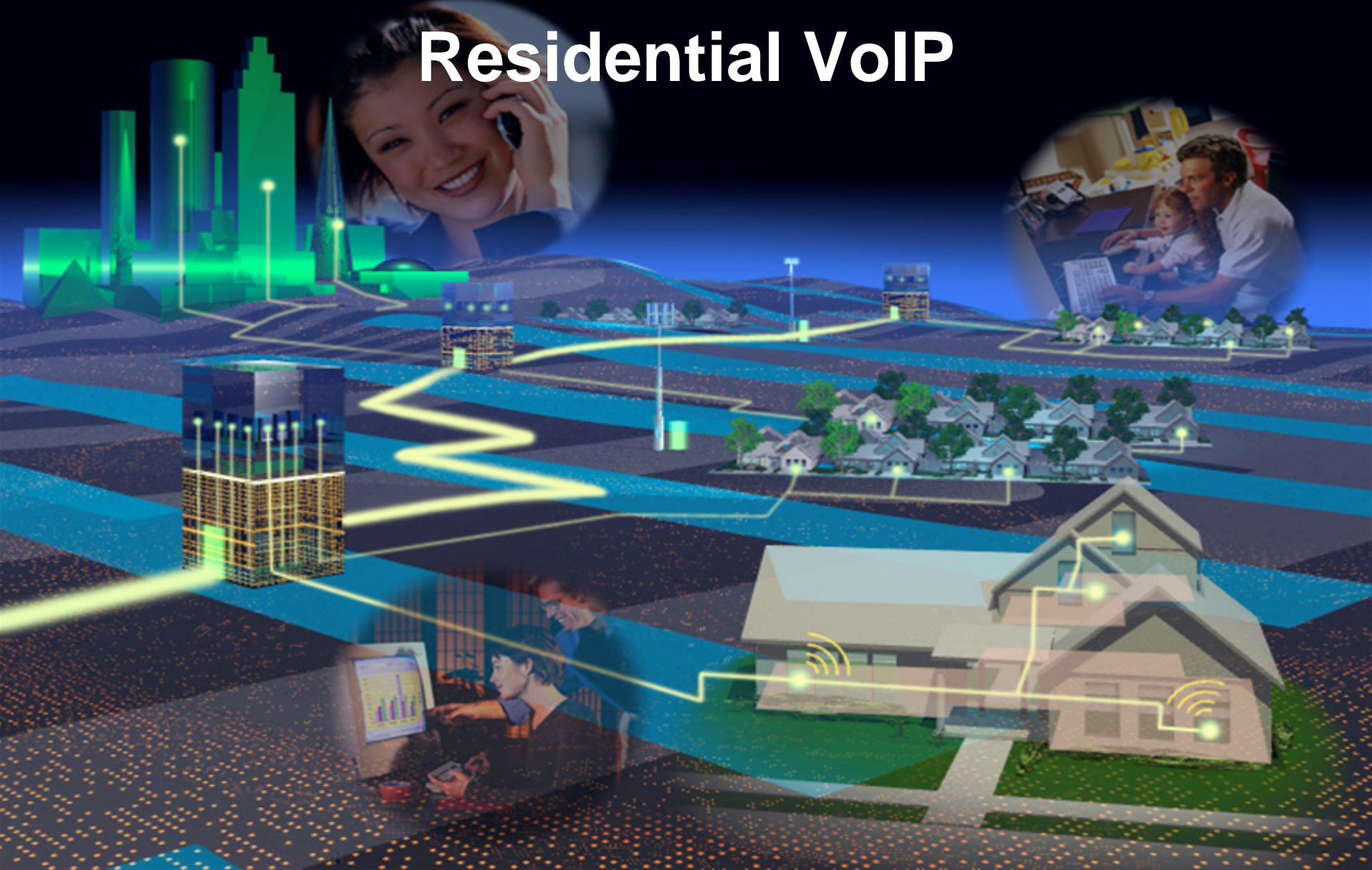
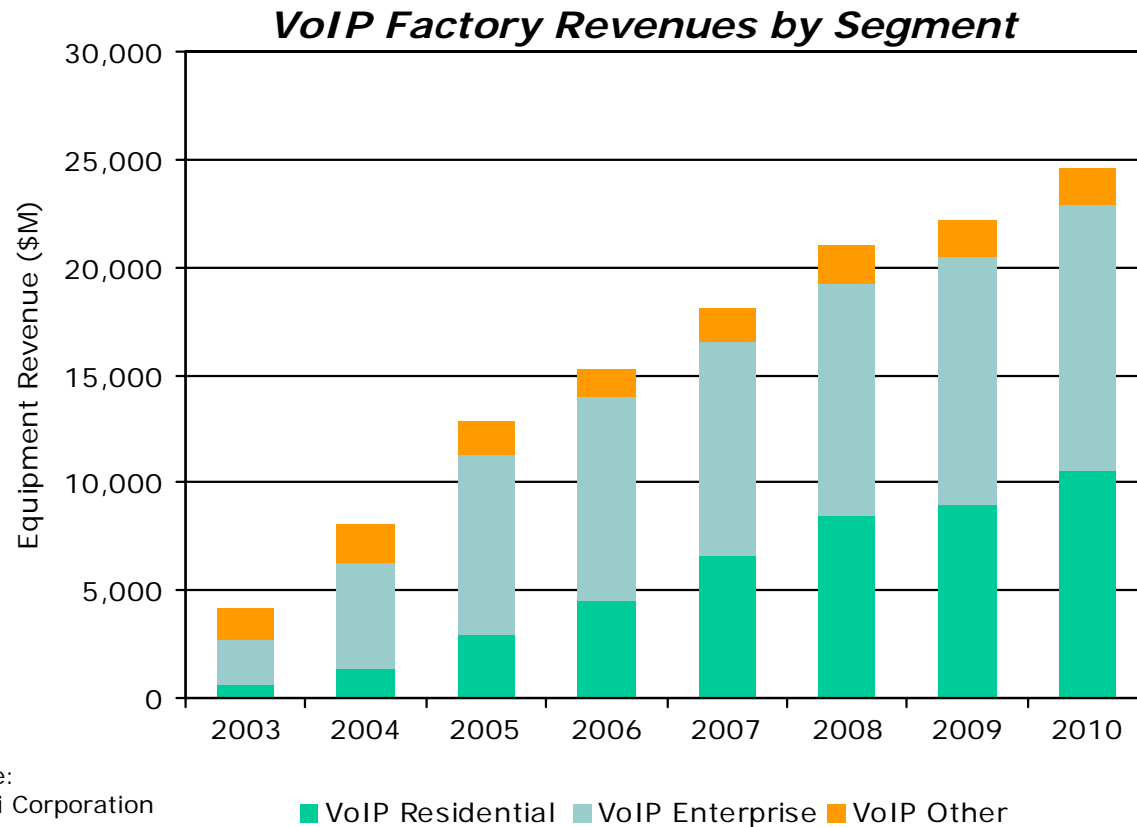


# Texas Instruments: Committed to Residential VoIP



# VoIP in the Residence and Enterprise – a \$15 B Market



September 5, 2005 *iSuppli Corporation* - By 2010 Enterprise VoIP will represent 50% of the \$20 Billion VoIP equipment market. The residential space, the second largest segment in VoIP, is in its early adopter stage and offers unlimited potential for the knowledgeable supplier.

# *Residential VoIP Gateway Trends*

Not just an analog terminal adapter anymore....



- ▶ Service providers want consumers to have options in consumer VoIP products
- ▶ Demand feature set on par with cellular phones
- ▶ Quality of service and performance are key to increasing subscriber take rates and minimizing churn



# *Recent TI VoIP News*

**9/20/05**

**Texas Instruments Reaches Ten Year Milestone in VoIP Software and Silicon Shipments, Retaining Leadership Position in Burgeoning Market**

**10/2/05**

**Texas Instruments Announces New VoIP Gateway Platform for T1/E1 Enterprise Applications**

**1/16/06**

**Texas Instruments' PIQUA™ to Dramatically Transform Quality of Service for Internet Based Communications and Entertainment**

**1/30/06**

**Texas Instruments Newest Carrier Infrastructure Platform Speeds Operators' Transition to a Converged, All-IP Network**

# TI's Broad Range of VoIP Solutions

Infrastructure

High Density  
Gateway  
Base Station



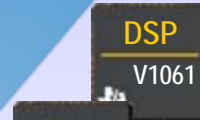
Discrete  
Integrated  
DSP & RISC

Customer Premises

Enterprise  
Gateway



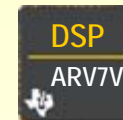
Residential  
SOHO  
Gateway



WLAN  
IP Phone



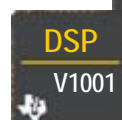
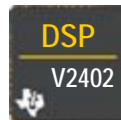
VoDSL



VoCable



Enterprise  
IP Phone



Technology for Innovators™



TEXAS INSTRUMENTS

# 3/7/06: Introducing the TNETV1061



## Complete silicon and software solution for residential VoIP products

- ▶ Analog Terminal Adapters
- ▶ Wired Gateway/Routers
- ▶ 802.11b/g Access Point/Routers
- ▶ Broadband Cordless Phones
- ▶ Home VoIP/cellular basestation

## Expanded software features

- ▶ Industry-leading, PIQUA™-enabled VoIP features
- ▶ SIP protocol stack + supplemental services
- ▶ Network Support package and routing
- ▶ Remote configuration & management
- ▶ Integrated 802.11g++ Access Point

# Key Features/Benefits



## Finished Products



Broadband  
Cordless Phone



Terminal adapter



Residential  
Gateway



VoIP Phone

## Scalability and remote management support

XML-based  
configuration and  
provisioning

Dual image support

Remote firmware  
upgrade

## Enhanced software features

Support for  
advanced  
wireless codecs

Advanced  
security  
features

Complete suite  
of telephony  
call features

PIQUA™-enabled  
solution

## Silicon optimized for residential VoIP applications

Dual processor  
architecture

Integration of  
features

20% improvement  
in performance



***Designed to optimize performance  
for Residential CPE VoIP applications***



- ▶ **Up to 4 channels LBR voice, fax**
- ▶ **G.729AB, G.723.1A, G.726, G.711**
- ▶ **Supports wireless codecs (GSM, EVRC) for fixed mobile convergence support**
- ▶ **PIQUA™-enabled VoIP features**
  - ▶ **Telchemy v2.2 and RTCP-XR**
  - ▶ **Line echo canceller**
  - ▶ **Adaptive jitter buffer**
  - ▶ **Tone detectors/generators**
  - ▶ **3-way conferencing**
- ▶ **Security**
  - ▶ **SIP TLS**
  - ▶ **Secure RTP**
- ▶ **Remote configuration and management**
  - ▶ **Remote firmware upgrade support**
  - ▶ **Single or dual image support**
  - ▶ **XML-based configuration**
  - ▶ **Generic network-based provisioning scheme**
- ▶ **Network support package**
- ▶ **High performance routing**
- ▶ **Enhanced SIP supplemental services**
- ▶ **4-port LAN Switch**
- ▶ **802.11g++ for improved rate and reach**



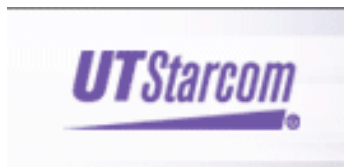
# TNETV1061 Development Platform



## TNETV1061SDB\_WR

- ▶ TNETV1061 VoIP processor
- ▶ Supports up to 4 FXS ports, optional FXO port
- ▶ Telephony interface Daughtercards
  - ▶ Legerity dual FXS
  - ▶ Silicon Labs dual FXS
  - ▶ Silicon Labs FXO
- ▶ 802.11g++ Access Point module
- ▶ 4-port Ethernet switch
- ▶ Integrated Ethernet phys support AutoMDIX

# TI Residential Gateway Customers



# TNETV1061 Summary

TI offers the *most complete, integrated and robust* residential voice gateway solution



|   |  |
|---|--|
| ✓ | Leverages superior TI DSP technology                         |
| ✓ | Field proven Telogy Software products                        |
| ✓ | Includes complete suite of VoIP software features            |
| ✓ | Fully supported software development platform                |
| ✓ | Pre-integrated Linux OS and SIP protocol stack               |
| ✓ | Dedicated support and training                               |
| ✓ | Protection of TI's "no cap" essential patent indemnification |



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