Customer Premises Equipment
Bringing broadband to life

www.infineon.com/communications

infineon
Never stop thinking
Introduction

**BROADBAND CUSTOMER PREMISES EQUIPMENT** is one of the fastest growing business segments within Infineon. What was once primarily a data modem has been transformed into a home gateway, with more powerful, feature-rich offerings coming into the market. As part of this technology shift, short-range wireless in the form of Wireless LAN and DECT/CAT-iq™ has also become part of the broadband CPE (Customer Premises Equipment) product portfolio, an overview of which is given in this brochure. Today’s standard IAD (Integrated Access Device) offers a host of features once normally associated with high-end IADs, with everything from high-speed routing and Voice over Internet Protocol (VoIP) through to USB, Wireless LAN and DECT/CAT-iq™. Building on its success in central office xDSL and telecom products, Infineon is excellently positioned to offer end-to-end solutions for ADSL2/2+, VDSL2, and SHDSL on both ends of the wire. Infineon’s CPE solutions deliver high-definition (HD) performance on many different levels:

- Application processing – multiple processor cores at benchmark speeds
- Voice & sound quality – specialized system methodology for DECT/CAT-iq™ handsets and IP phones
- Network routing – ground-breaking routing speeds of up to 1000 MBit/s
- xDSL rates and reach for ADSL2/2+, VDSL2 and SHDSL

IN ADDITION to offering comprehensive feature sets in hardware, Infineon also develops and maintains a large portfolio of VoIP and broadband CPE software for each of the applications supported. Infineon’s SPINACER software (SW) suite offers dedicated comprehensive software solutions for ADSL2/2+ IAD, multipurpose and VoIP routers as well as for IP phones.

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CAT-iq™ is the registered trademark of the DECT Forum.
CAT-iq™ is the new global technology for broadband home connectivity.
ADSL2/2+, VDSL2 Modem

ADSL2/2+ Bridge Modem / Combo Router

Features
- ADSL2/2+ bridge modem/router based on AMAZON-SE SoC
- 2-layer board possible with single-side component mounting
- Low BOM due to integrated Ethernet PHY and USB port
- Optimized software package available for small memory footprint
- Worldwide AR7 class interoperability Reference Design
- Easy 50601: AMAZON-SE reference board for ADSL2/2+ modem/router

Key Products
- AMAZON-SE

VDSL2 Bridge Modem

Features
- Two-chip solution for simple bridge modem
- No network processor required (hostless mode)
- Support for all VDSL2 profiles up to 30a in one solution
- Downstream and upstream rates of up to 150 Mbps possible
- All bandplans fully programmable Reference Design
- Easy 80600 VDSL2 bridge modem reference design

Key Products
- VINAX™-A
- VINAX™-D
- Add-on Devices
- Ethernet PHY
ADSL2/2+ Router
with WLAN b/g

Features
- Turnkey ADSL2/2+ solution
- Worldwide ADSL2/2+ interoperability footprint
- Enhanced algorithms for robust connections even on difficult loops
- Feature-complete networking stack incl. firewall, TR069, etc.
- Leading WLAN performance in terms of rate, reach and robustness

Reference Design
- AR7W reference board for WLAN b/g ADSL2/2+ router, Annex A / M / B

Key Products
- AR7 (PSB 7200)
- PSB 1350A (WLAN b/g)
- TANTOS or SAMURAI
ADSL2/2+ IAD with DECT

Features
- ADSL2/2+ IAD based on DANUBE-S SoC
- Highest integration level of VoIP and ADSL2/2+ subsystem
- Best-in-class voice quality
- Unparalleled routing performance due to hardware acceleration (PPE)
- Hardware encryption for IPSEC and SRTP

Reference Design
- Easy 50712 DANUBE reference board for ADSL2/2+ IAD gateway
- Annex A / M / B

Key Products
- DANUBE-S
- SLIC®-DC
- TANTOS-0G
- PSB 1350A (WLAN b/g)
- COSIC™ (DECT / CAT-iq™)

Add-on Devices
- SLICOFI-1
- IPAC-X

ADSL2/2+ IAD
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- Highest integration level of VoIP and ADSL2/2+ subsystem
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Key Products
- DANUBE-S
- SLIC®-DC
- TANTOS-0G
- PSB 1350A (WLAN b/g)
- COSIC™ (DECT / CAT-iq™)

Add-on Devices
- SLICOFI-1
- IPAC-X
Features
- VDSL2/ADSL2/2+ IAD based on VINAX™-VE and VINAX™-A
- Support for all VDSL2 profiles up to 30 MHz in one solution
- Best-in-class voice quality
- Downstream and upstream rates of up to 150 Mbps possible
- All bandplans fully programmable
- Acceleration and QoS for video streams

Reference Design
- Easy 80800 VDSL2 IAD reference design

Key Products
- VINAX™-VE
- VINAX™-A
- TANTOS-3G
- SLIC®-DC
- PSB 1350A (WLAN b/g)

Add-on Devices
- COSIC™ (DECT / CAT-iq™)
- SLICOFI-1
- IPAC-X

Add-on Devices
VoIP Router + DECT

Features
- Ethernet VoIP router based on TwinPass-VE
- Best-in-class voice quality
- Unparalleled routing performance due to hardware acceleration (PPE)
- Hardware encryption for IPSEC and SRTP

Reference Design
- Easy 4010 TwinPass-VE VoIP router reference design kit

Key Products
- TwinPass-VE
- TANTOS-3G
- SLIC-DC
- COSIC™ (DECT / CAT-iq™)

Add-on Devices
- IPAC-X
- SLICOFI-1
Features

INCA®-IP2S single-chip GbE IP phone solution
- Internal 3-port gigabit Ethernet switch
- Analog front end (AFE) with 2 x ADC / DAC converters
- DSP with full duplex hands-free speakerphone
- 2 x 400 MHz MIPS 24KEC CPUs
- Data encryption unit with powerful hardware accelerator to support encryption (DES / 3DES, AES) and hashing (SHA-1, MD5)
- True random number generator; 802.1x authentication

Reference Design
- EASY 21653 phone
- Fully integrated SIP phone software solution (SPIACER)
- Extensive QoS support including IEEE 802.1p / Q-DiffServ/ToS
- Advanced acoustic echo cancellation for full duplex speakerphone
- 3-party conferencing with mixed codecs featuring HD sound
- Color TFT display with icon-driven GUI

Key Products
- INCA®-IP2S/2F

EASY 21653 phone
- IBM Compatible
- 1000 BaseT
- 10/100 BaseT
- Ethernet WAN
- 10/100 BaseT

IP Phone
- Gigabit and Fast Ethernet
- Enterprise IP Phone

INCA-IP2S/2F
- VoIP MIPS-24KEc™ 400 MHz Processor
- CPU MIPS-24KEc™ 400 MHz Processor
- GbE Switch
- RGMII
- 10/100 PHY (optional)
- GE PHY (optional)
- SDRAM Controller
- USB Host
- EBU
- Security/Engine
- PCM
- UART
- SDRAM
- FLASH
-µC Bus
- SDR

Infineon Chips
Functional Blocks
Third-party Chips
PSTN DECT + CoIP

PSTN DECT

Handset Features
- Single-chip DECT and DECT 6.0 with integrated baseband, RF and PA (COSIC™-ULC and COSIC™-Standard)
- Integrated display controller for 180-segment display (ULC) or color display support (Standard)
- SMS, Caller-ID, 3-tone ringer (ULC) or true polyphonic ringing (Standard)
- Half-duplex (ULC) or full-duplex hands-free with integrated amplifier (Standard)

Base Station Features
- Single-chip DECT and DECT 6.0 with integrated baseband, RF and PA (COSIC™-ULC and COSIC™-DTAM)
- Integrated AFE for PSTN
- Integrated answering machine (DTAM)
- Option for base station with full-duplex speakerphone, keypad and polyphonic ringing (DTAM)

Key Products
- COSIC™-ULC for handset and base station
- COSIC™-Standard
- COSIC™-DTAM

Cordless over IP (CoIP)

Features
- Single-chip DECT, DECT 6.0 and CAT-iq™ with integrated baseband, RF and PA
- Connected to Infineon SoC devices and embedded with SPINACER software
- 4 simultaneous wideband G.722 calls (DANUBE)
- Color display support with integrated white LED driver for backlighting
- SMS, caller ID, true polyphonic ringing
- Full-duplex hands-free with integrated amplifier
- HD sound support

Key Products
- COSIC™-VoIP
DANUBE / DANUBE-S

**PSB 50702, PSB 50712**
Single-chip solution for ADSL2/2+ with integrated 2-channel analog CODEC for IADs and home gateways
- Highest level of integration of VoIP and ADSL2/2+
- Applications include high-end and cost-optimized ADSL2/2+ IADs and multimedia gateways with WLAN and wireless VoIP
- Two 10 / 100 / 200 MII / reverse MII / TMII interfaces
- DANUBE-S with hardware encryption

AMAZON-SE

**PSB 50601**
ADSL2/2+ standard entry solution for CPE applications
- One SoC fits all types of low-cost applications
- Lowest chip power consumption for USB-powered modem
- More than 100 Mbps USB to Ethernet performance
- Total system and software package for time-to-market approach

AR7

**PSB 7300A, PSB 7200, PSB 7100-U2, PSB 7100-A2**
High-end single-chip ADSL2/2+ router
- Worldwide ADSL2/2+ interoperability footprint
- Field proven: Deployed with more than 100 operators
- Superior ADSL2/2+ performance in “real-world” conditions
- Support of high quality applications (e.g. IPTV over xDSL)
- Complete software solution
VINAX™-A / -D

PSB 80170, PEB 80600
Solution for VDSL2 / ADSL2/2+ hostless bridge modem
- Cost-effective 2-chip solution for simple VDSL2 bridge modem
- Up to 100 Mbps WAN bridging
- Support for all profiles

VINAX™-A / -E

PSB 80170, PEB 80700
Solution for VDSL2 / ADSL2/2+ WiFi router
- Full ITU-T standard-compliant PHY with ADSL2/2+ backward compatibility mode
- PPE to accelerate packet routing / forwarding
- Hardware encryption / decryption accelerator
- Extra CPU processes 802.11n packets

VINAX™-A / -VE

PSB 80170, PEB 80800
Solution for VDSL2 / ADSL2/2+ WiFi IAD
- Full ITU-T standard-compliant PHY with ADSL2/2+ backward compatibility mode
- PPE to accelerate packet routing / forwarding
- Hardware encryption / decryption accelerator
- Voice subsystem for best-in-class voice quality
Ethernet Routing, Switch + PHY

Network Processor

ADM 5120, ADM 5120P, ADM 3120B
Highly integrated system-on-chip (SoC) network processor
- Embedded switch engine and 5-port Ethernet PHY
- State-of-the-art ATA total solution combining VINETIC®-CPE / ATA and SLIC®-DC
- ADM3120B provides small package for tiny ATA applications

SAMURAI

ADM 6996M / I / LC / FC, ADM 6995LC
Advanced low-power 5 / 6-port Layer 2 Ethernet switch
- Low-power design
- Hardware and software IGMP (Internet Group Management Protocol)
- L4 QoS and port mirror functionality

TANTOS-0G / -2G / -3G

PSB 6970, PSB 6972, PSB 6973
High-performance gigabit Ethernet switch
- High-performance layer 2 seven-port switch controller
- Five 10 / 100 TP / FX plus two / three GMII / RGMII / MII interfaces embedded
- Sixteen 802.1Q VLAN group recognizes full 12 bits
- Supports IGMP V1, V2 & V3
- Video accelerator using PPPoE / PPP header removal

TwinPass-E / -VE

PXB 4000, PXB 4010
Data-only and VoIP solution for Ethernet router
- Powerful CPU for rich router application features for example firewall, VPN
- Protocol processing engine for flexible routing w/o CPU
- Hardware encryption / decryption accelerator
- TwinPass-VE: Best-in-class voice quality
VoIP and IP Telephony

**VINETIC®-1 / -2CPE**

**PEB 3331, PEB 3332**
1- and 2-channel VoIP processor and analog termination solution
- Integrated SP and RAM for up to four VoIP channels with G.711, G.723.1, G.726, G.729 A/B, iLBC and T.38
- Any codec any time
- Integrated user programmable analog codec interfacing Infineon’s SLIC®-DC
- 3-party VoIP conferencing
- CPE applications: Analog telephone adaptor (ATA), xPON, Wintex and VoIP gateways
- Highly scalable and flexible solution
- Seamless interface with any Infineon processor

**VINETIC®-2Plus**

**PEB 33322**
Single-chip VoIP processor / SLIC®
- Integrated VoIP DSP, codec and SLIC® in one package
- Supports 1- or 2-channel analog telephone interfaces
- Supports 4-channel G.711, G.723.1, G.726 ADPCM, G.729 A/B, iLBC coding and T.38 fax

**SLIC®-DC**

**PEF 4268T, PEF 4268F**
Ringing SLIC® with integrated DC / DC converter
- Ideal for CPE designs including: VoIP ATA / router, VoIP ISDN / xDSL / cable modem, xPON/WiMax gateways, SOHO IP PBX
- Reduced power dissipation and lowest BOM
- Only one unregulated DC power supply voltage
- Special industry-unique ring mode reduces power significantly in ringing mode
VoIP and IP Telephony

INCA®-IP2F

PSB 21650
Single-chip Fast Ethernet IP phone
- Full-duplex hands-free function
- Integrated 3-port Ethernet switch
  and two 10/100 MAC PHY’s
- Powerful 262 MHz CPU
- HD sound / wideband codecs

INCA®-IP2S

PSB 21653E
Single-chip gigabit IP phone
- Full 3-port gigabit Ethernet switch with
  two GMACs and RGMII interfaces for optional
  connection of external equipment
- Two integrated 10/100 Base-T Ethernet MACs
  and PHYs for LAN and PC connection
- Two 400 MHz MIPS 24KEc CPUs
  (for voice and data handling)
- Security features include authentication, encryption
  and true random number generator
- Two independent AFEs supporting intercom function
- USB host support
- Full-duplex speakerphone
- HD sound support
# DECT / CAT-iq™

## COSIC™-ULC
- Single-chip DECT and DECT 6.0 integrating baseband, RF and PA
- Ultra-low-cost version
- Integrated driver for 180-segment display
- SMS, caller ID, 3-tone ringer
- Half-duplex hands-free

## COSIC™-DTAM
- Same as COSIC™-ULC base station
- Extended DSP for answering machine (over 15 mins. recording with 4 MB flash)
- Two versions – with and without full-duplex speakerphone in base station with integrated amplifier
- Keypad and polyphonic ringing

## COSIC™-Standard
- Same as COSIC™-ULC handset
- Extended DSP
- Color display support with white LED driver
- True polyphonic ringing
- Full-duplex hands-free with integrated amplifier

## COSIC™-VoIP
- Single-chip DECT and DECT 6.0 handset integrating baseband, RF and PA
- CAT-iq™ compliant: Long-slot and G.722 support
- Color display support with white LED driver
- True polyphonic ringing
- Full-duplex hands-free with integrated amplifier

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As well as broadband CPE solutions, Infineon offers a complete product portfolio for the Broadband Infrastructure, with end-to-end solutions that provide the most stable DSL connections and highest possible data transmission performance.

CO Brochure
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# CPE Selection Guide by Application

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<td>INCA-IP2F</td>
<td>PEB 21650</td>
<td>Single-chip IP phone device with Fast Ethernet</td>
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<td>ISDN</td>
<td>IPAC-X</td>
<td>PEB 21150</td>
<td>ISDN S transceiver with extended HDLC controller</td>
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<td>ISAC-SX</td>
<td>PEB 3086</td>
<td>ISDN S transceiver with HDLC controller</td>
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<td>SPINACER</td>
<td>IP Phone</td>
<td>STS 9201</td>
<td>System solution software for IP phone</td>
<td>(•)</td>
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<td>ADSL Router</td>
<td>STS 9101</td>
<td>System solution software for ADSL router</td>
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<td>ADSL Gateway</td>
<td>STS 9401</td>
<td>System solution software for ADSL gateway / IAD including TR-69 and VSLSO2 option</td>
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<td>Router</td>
<td>STS 9301</td>
<td>System solution software for router</td>
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<td>VoIP Router</td>
<td>STS 9501</td>
<td>System solution software for VoIP router</td>
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</table>

(•) = Key Product  • = Add-On Device
SPINACER Software Solution Suite

**SPINACER IS A MODULAR SOFTWARE SOLUTION** for a wide range of broadband CPE applications, designed to complement Infineon’s hardware products and provide customers with a fully integrated solution. Based on Infineon’s embedded Linux distribution that reduces the memory footprint by up to 60%, SPINACER offers a choice of three standard packages for ADSL2/2+ modem, router & gateway, VDSL2 router & gateway, VoIP router / ATAs and IP phones, that can also be enhanced with various add-on applications.

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