

# VoIP solutions for SEAMLESS COMMUNICATION



[www.infineon.com/VoIP](http://www.infineon.com/VoIP)



Never stop thinking



## VoIP peace of mind

FROM OEM TO SERVICE PROVIDER TO CONSUMER, Infineon's components provide "peace of mind" in quality, reliability, performance and broad selection. Our highly integrated DSP/codec system-on-chip solutions provide the industry's highest voice quality. Infineon's POTS interface components, with over 500 million ports deployed in over 120 countries, are CO grade and ensure the highest possible reliability in the most critical area of the VoIP system, namely the consumer's system interface.

COMPLEMENTING OUR VoIP OFFERING, Infineon's comprehensive product portfolio includes single and multichannel ADSL /2/2+, VDSL/2 and SHDSL ICs for both CO and CPE applications. Infineon's DECT, WLAN, router and switch system-on-chip solutions along with a modular Linux-based software serve to streamline design cycles and achieve faster time-to-market.

## World-class VoIP solutions with world-class support

LOOKING BEYOND THE SINGLE CHIP, Infineon powers its customers with fully functioning ready-to-deploy reference design kits. Such platforms include wireless VoIP/DECT routers, VoIP-enabled ADSL gateways, IP-Phones and more.

OUR GLOBAL TEAM of professional application engineers maintains close and constant contact with customers through worldwide competence centers – ensuring that both service providers and system vendors (OEMs) receive the support they need to deliver world-class VoIP products to the global market.

# Solutions for all segments of the VoIP market



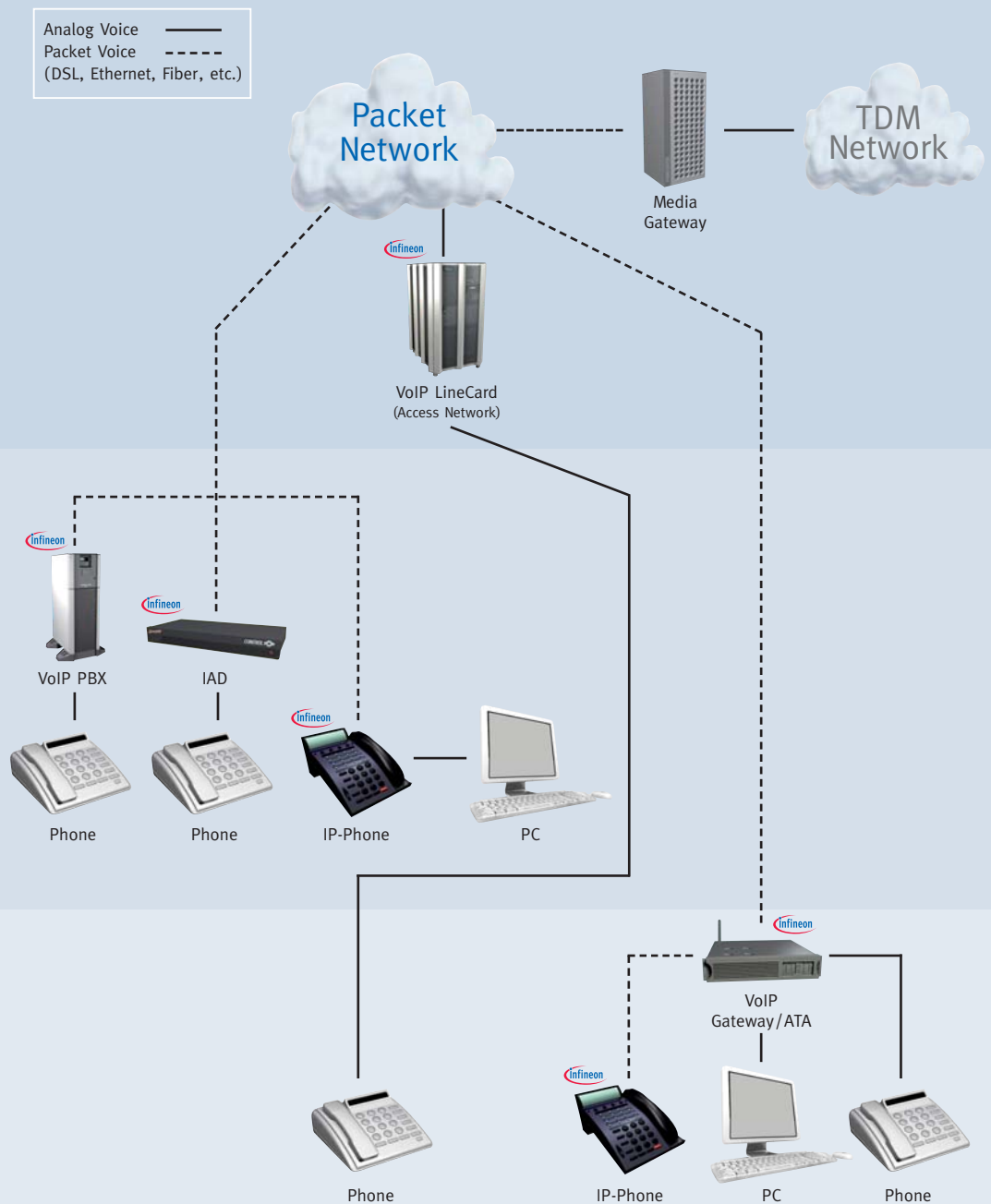
Infrastructure



Enterprise



Residence



# Infineon VoIP solutions at a glance

INFINEON PROVIDES A COMPLETE SET of devices for VoIP, covering IP-Phone, VoIP ADSL Gateway, ATA, VoIP Router, SOHO-IP-PBX and VoIP Linecards. Additionally a SIP software stack enhances Infineon's VoIP offering to a complete systems package.

## SOHO-IP-PBX

- Scaleable number of FXS and FXO ports
- Full integration of Ethernet
- Extension of non-POTS functions with software-compatible VoIP DSP devices

## IP-Phone

- Single chip system solution
- Full hands-free speakerphone functionality
- Software packages allow operation for both home and enterprise

## VoIP LineCard

- Full scalability from 4 to 96 VoIP channels
- Integration of analog, SLICs, ringing, line testing and VoIP DSP functions
- Family of pin and sw-compatible devices allow variable Erlang/utilization factor



Enterprise

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## Residence



### ADSL IAD

- Systems solution with ADSL2+ and VoIP
- Exceeds operator requirements for ADSL2+ and VoIP quality
- Integrated GR-909 line testing reduces truck rolls

### VoIP Router/ATA

- Complete systems solution including Ethernet, VoIP and software
- Scalable from 1 to n VoIP channels
- Easy extension to other technologies like ISDN, FXO, cordless and wireless

### VoIP DECT

- Seamless integration of DECT and VoIP
- DSP-based VoIP gives sufficient bandwidth to support cordless data extensions
- Handles multiple DECT handsets and VoIP calls

### IP-Phone

- Single chip system solution
- Full hands-free speakerphone functionality
- Software packages allow operation for both home and enterprise

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# VoIP DECT base station



## Features

- DECT to 10/100 ethernet VoIP solution
- Supports simultaneous calls from multiple handsets
- Features three-party conferencing

## Reference design

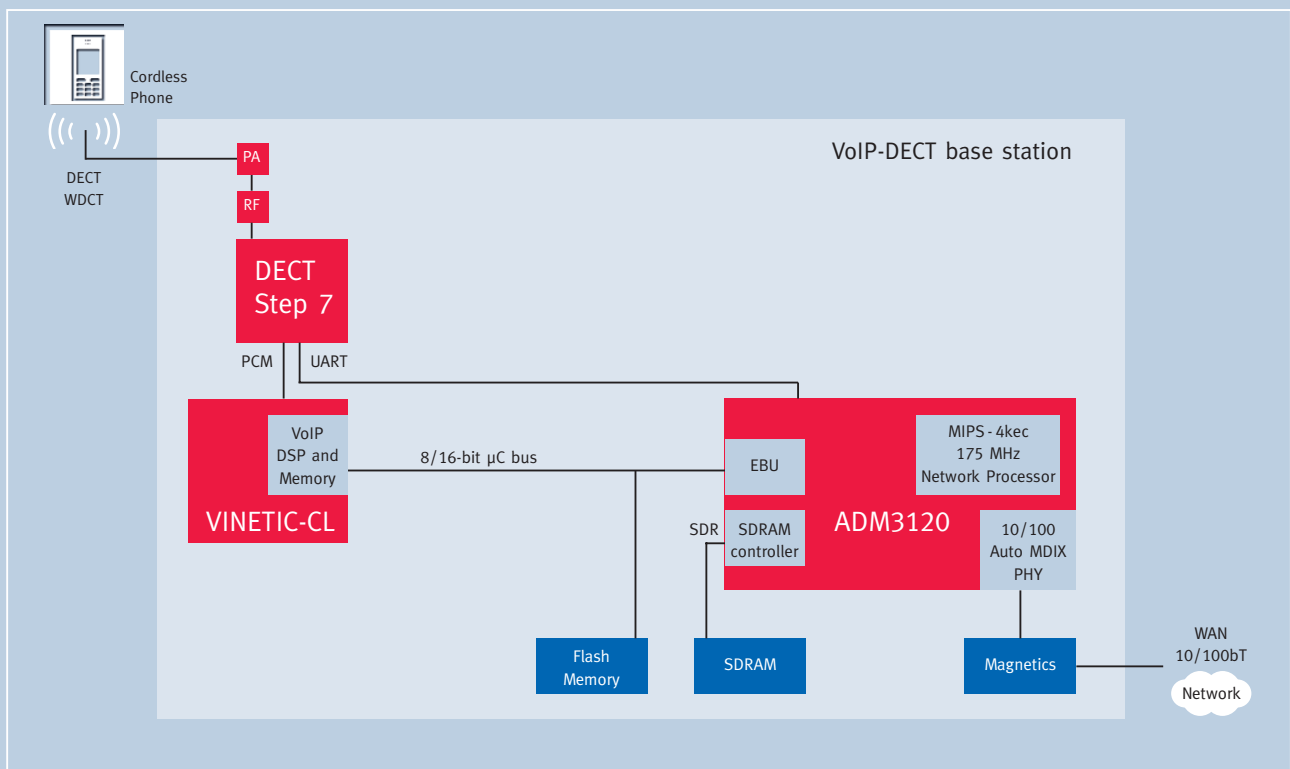
- EASY 5120 WVoIP Router

## Key products

- ADM3120
- VINETIC-CL
- DECT Step 7

## Add-on devices

- VINETIC-1/2 CPE
- VINETIC-1/2 ATA
- SLIC-DC



# Analog Telephone Adapter (ATA) and VoIP Router

## Features

- Same architecture for ATAs, VoIP Routers and WLAN VoIP Routers
- One WAN and up to 4 LAN ports integrated
- 2 POTS ports with up to 4 VoIP any-coder-any-time channels integrated
- Flexible interfaces for enhancements such as WLAN, DECT, Bluetooth®, ISDN and FXO

## Reference design

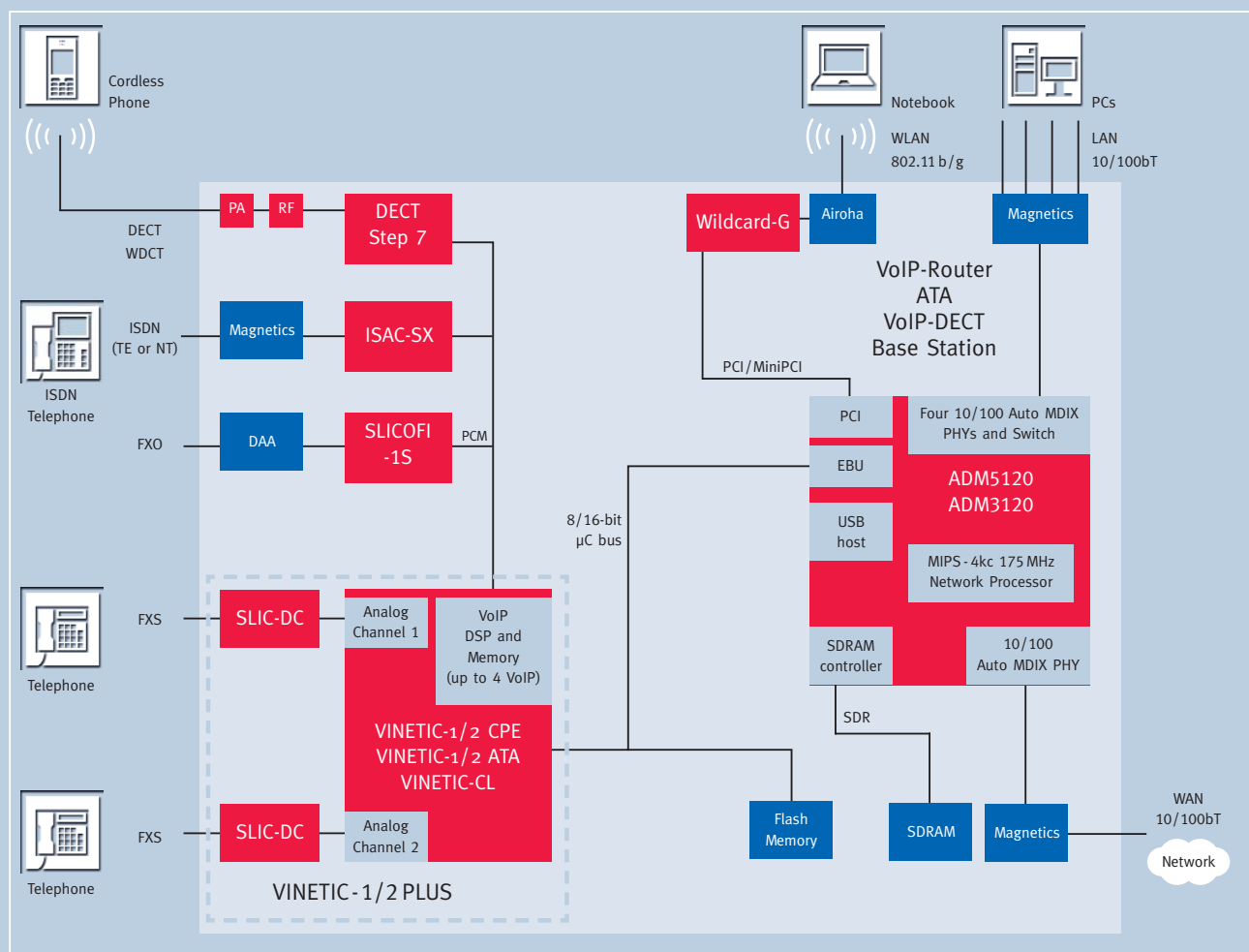
- EASY 5120 WVoIP Router

## Key products

- ADM3120
- ADM5120
- VINETIC-1/2 ATA
- VINETIC-1/2 CPE
- SLIC-DC

## Add-on devices

- WLAN: Wildcard-G
- ISDN: ISAX-SX, IPAC-X
- FXO: SLICOFI-1S + DAA
- DECT: DECT Step 7
- Bluetooth: BlueMoon UniCellular



# IP-Phone



## Features

- Fully integrated SIP phone solution
- Extensive QoS support including 802.1p/Q, DiffServ, ToS
- Integrated switch and PHYs
- Telephony features include: three-way conferencing, voice activated dialing; volume control, codec selection, loud-speaker, hands free, full duplex and headset selection, address book, instant messaging
- VoIP (SIP) supplementary features include: call on hold, call waiting, call forward, call transfer, call blocking (do not distribute)

## Reference design

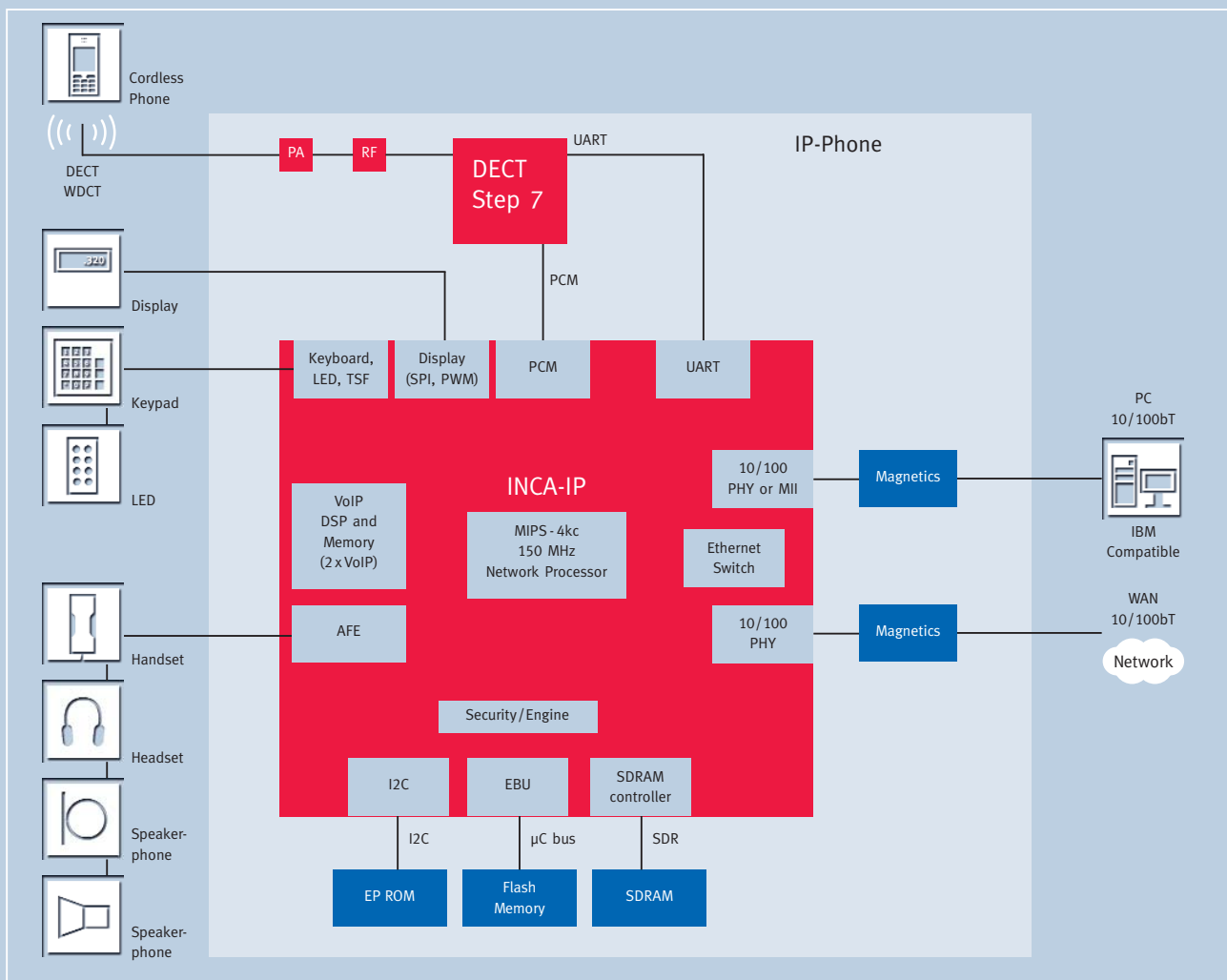
- EASY 21553

## Key products

- INCA-IP

## Add-on devices

- DECT: DECT Step 7
- Bluetooth: BlueMoon UniCellular



# xDSL Gateway

## Features

- ADSL2+ (Amazon) with integrated network processor
- Optional extension of Ethernet ports using Samurai chipset
- VoIP real-time critical tasks embedded in VINETIC® chipset
- Full suite of networking and VoIP stacks on powerful MIPS processor
- Supports ADSL Annex A, B and Annex M

## Reference design

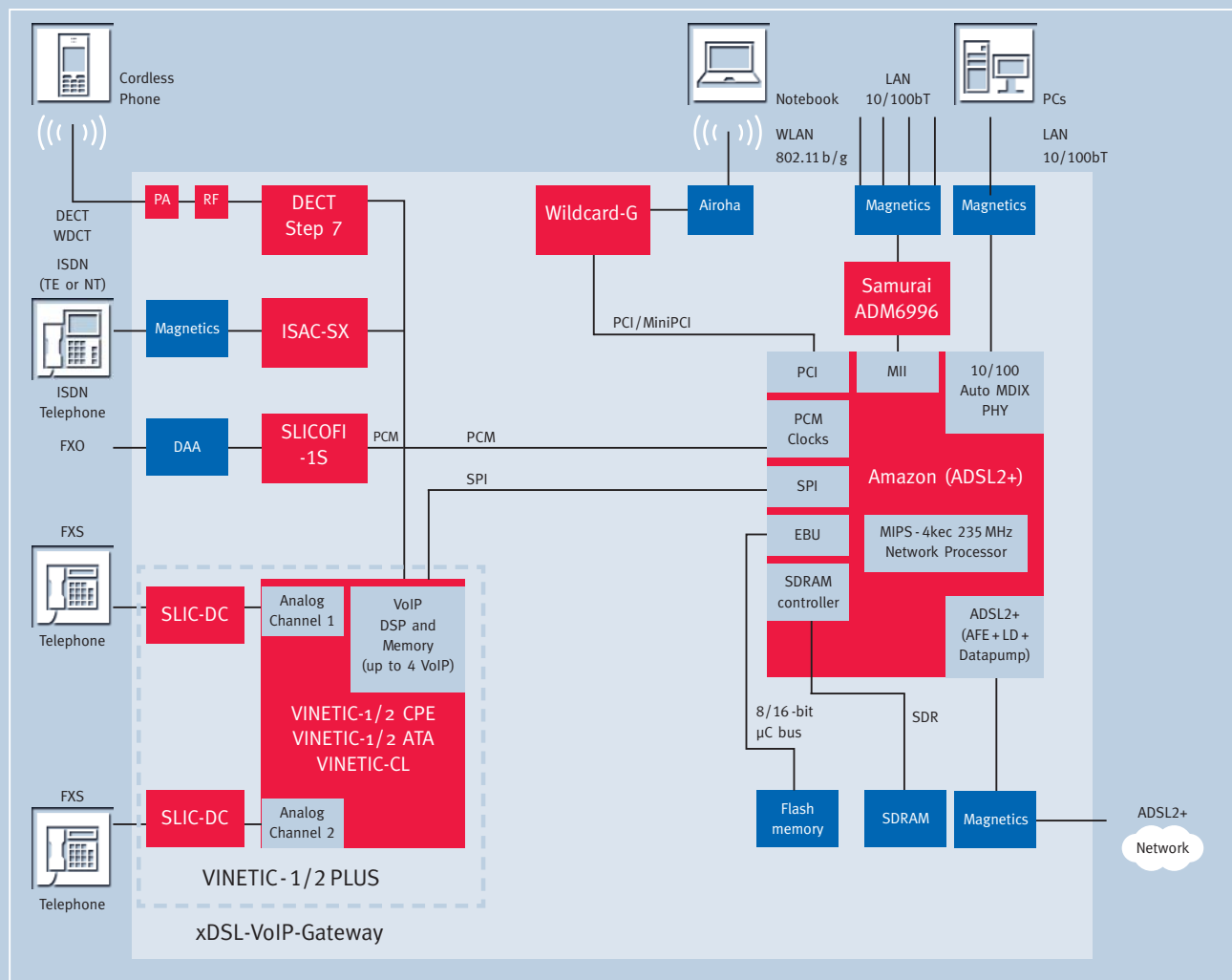
- EASY 50510 Annex A/B
- EASY 50505 Annex A/B

## Key products

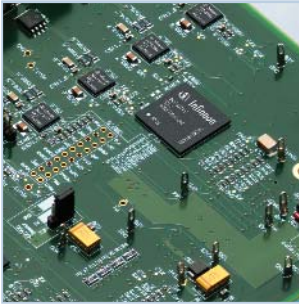
- Amazon
- VINETIC-1/2CPE
- VINETIC-1/2ATA
- SLIC-DC
- Samurai

## Add-on devices

- WLAN: Wildcard-G
- ISDN: ISAX-SX, IPAC-X
- FXO: SLICOFI-1S + DAA
- DECT: DECT Step 7
- Bluetooth: BlueMoon UniCellular



# VoIP LineCard

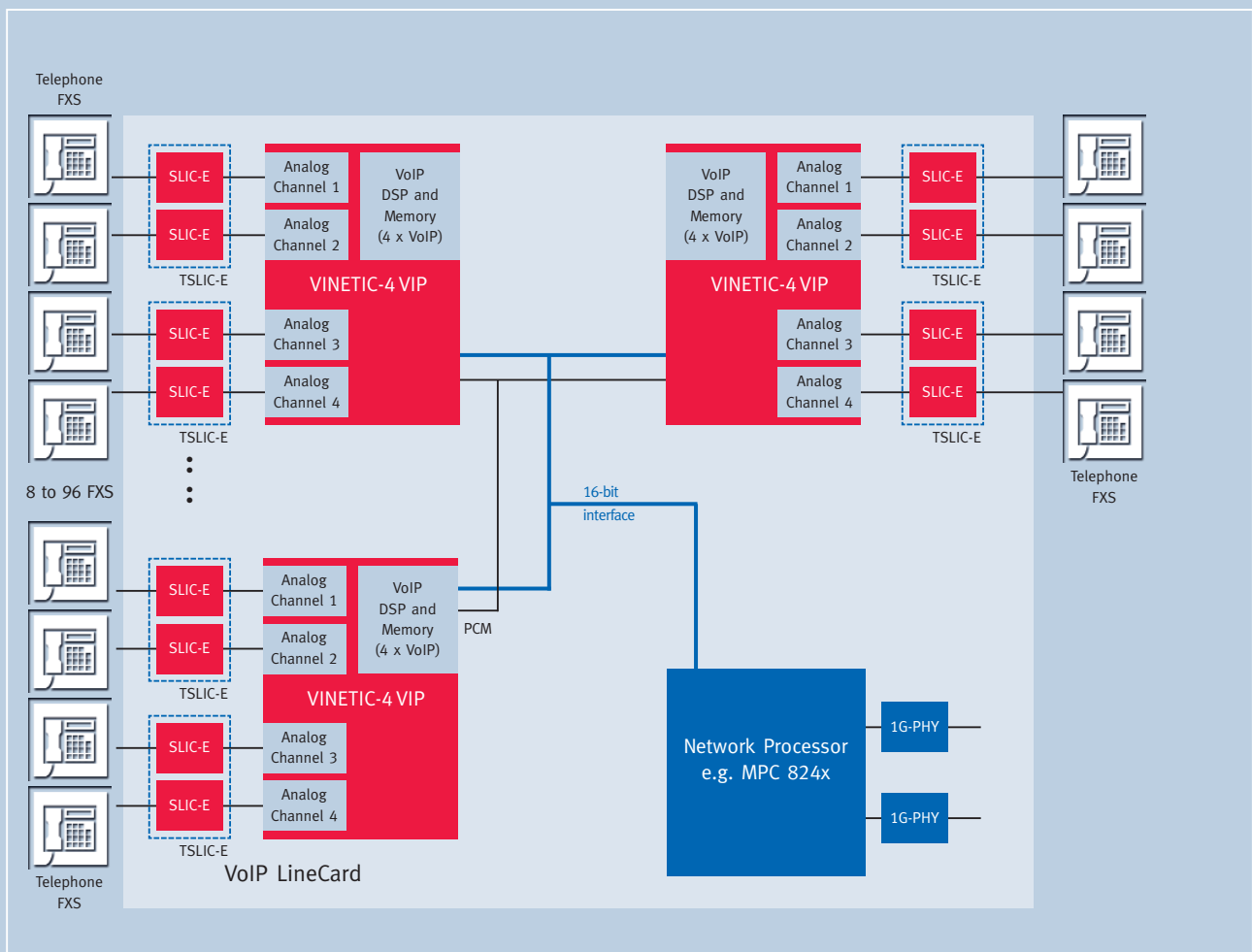


## Features

- Modular scaleable LineCard with 4 up to 96 voice channels
- All real-time critical VoIP tasks encapsulated in VINETIC devices
- Supports all G.711, G.72x, T.38 standards
- Standard network processor is sufficient to handle all channels

## Key products

- VINETIC-4VIP
- SLIC-E/TSLIC-E
- SLIC-LCP



# SOHO-IP-PBX

## Features

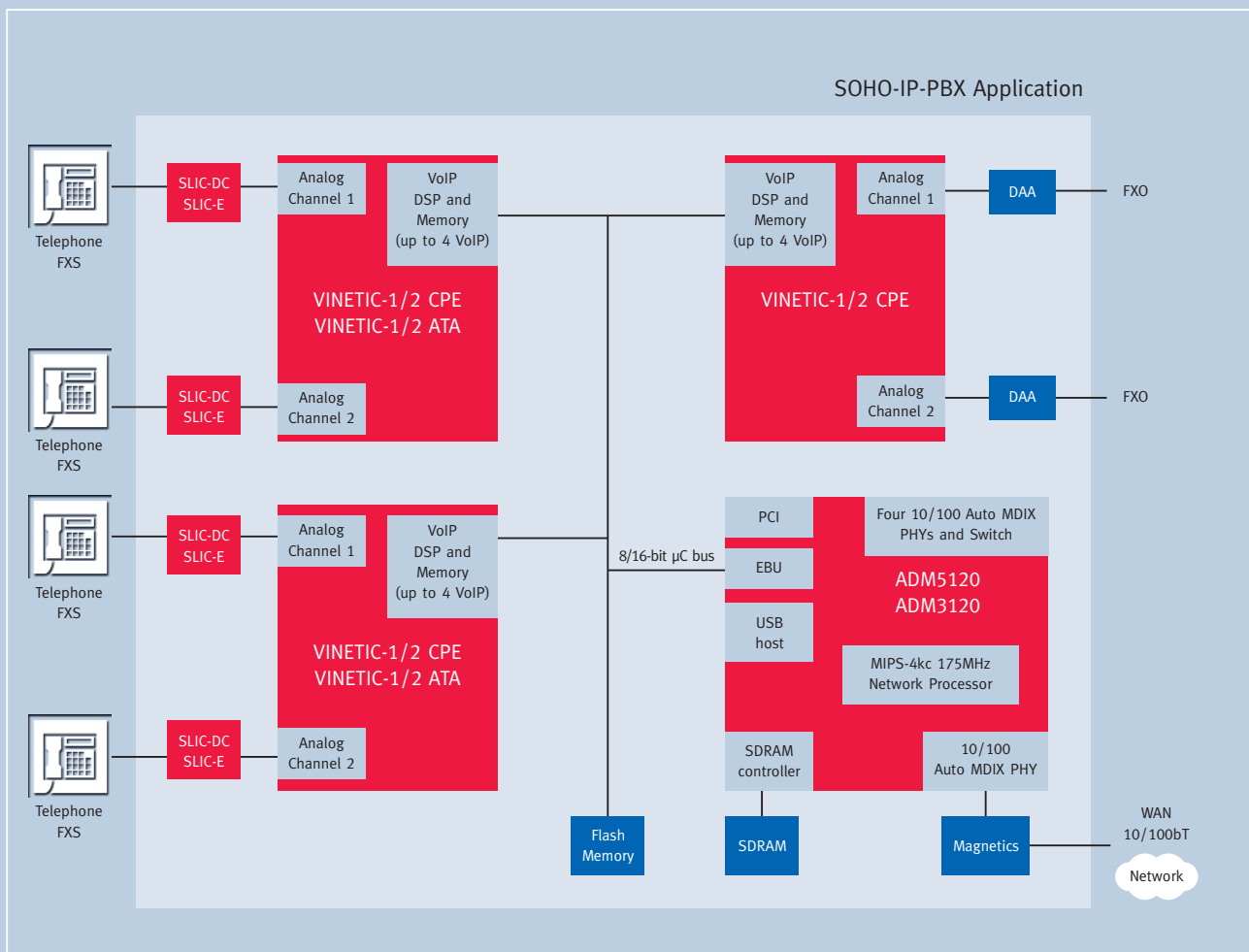
- Fully enabled SOHO-IP-PBX with calls between any port
- Scalable system allows setup for any number of FXS and FXO channels
- Conferencing between any port supported
- Selection between two different SLICs (SLIC-E and SLIC-DC) for optimized RBOM cost depending on used power supply

## Key products

- ADM5120
- VINETIC-2CPE / VINETIC-2 ATA
- SLIC-E
- SLIC-DC

## Add-on devices

- DECT: DECT Step 7
- Bluetooth: BlueMoon UniCellular
- WLAN: Wildcard - G
- ISDN: ISAX - SX, IPAC - X
- Samurai



# VoIP product matrix

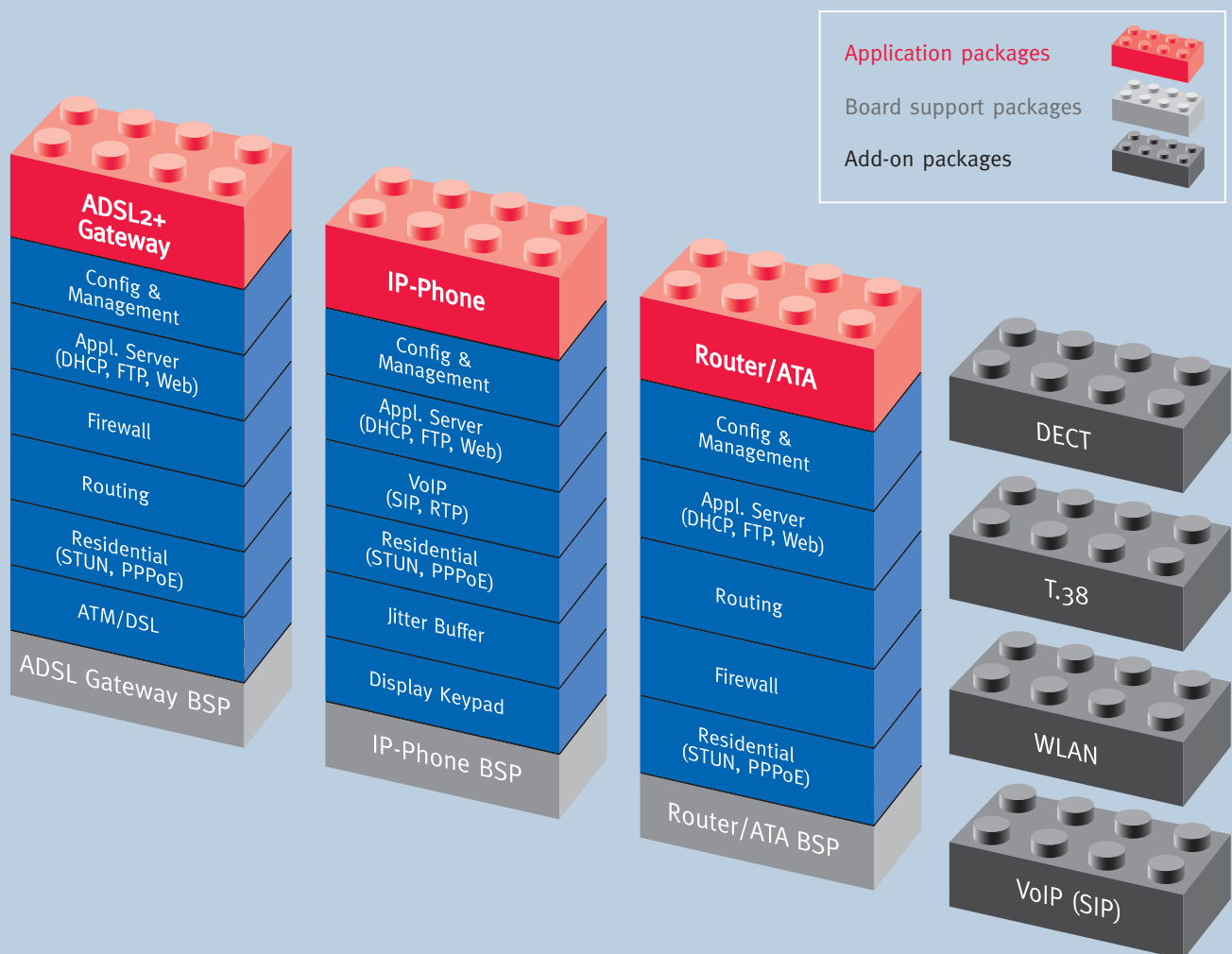
| Product family       | Product name         | Sales code                                   | Description                                                                                                                         | ADSL2/2+ IAD | VDSL2 IAD | VoIP Router (wired/wireless) | VoIP DECT Router | IP Phone | SOHO PBX | VoIP Line Card |
|----------------------|----------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|------------------------------|------------------|----------|----------|----------------|
| VoIP                 | VINETIC® 1/2 CPE     | PEB 3331/2                                   | Single/dual channel codec and VoIP DSP with simultaneous 2/4 channels VoIP (G.729, G.723.1, iLBC, LEC, T.38, RTP)                   | •            | •         | •                            | (•)              |          | •        |                |
|                      | VINETIC® 1/2 ATA     | PEB 3341/2                                   | Single/dual channel codec and VoIP DSP with simultaneous 1/2 channels VoIP (G.729, G.723.1, iLBC, LEC, T.38, RTP)                   | •            | •         | •                            | (•)              |          | •        |                |
|                      | VINETIC®-4 VIP       | PEB 3324                                     | 4-channel codec with VoIP DSP for G.723.1, G.729, G.728, T.38 fax relay, LEC, AAL2 and RTP                                          |              |           |                              |                  |          |          | •              |
|                      | VINETIC®-CL          | PEB 3340                                     | VINETIC CordLess with 2-channel VoIP DSP (G.729, G.723.1, iLBC, LEC, T.38, RTP) optimized for DECT, WDCT and ISDN-only applications |              |           |                              | •                |          | •        |                |
|                      | VINETIC®-o           | PEB 3320                                     | VoIP DSP with 4 channels (G.729, G.723.1, iLBC, LEC, T.38, RTP)                                                                     |              |           |                              |                  |          | •        |                |
| codec/SLIC           | DuSLIC-SP            | PEB 3268                                     | Single package 1/2 channel codec/SLIC device                                                                                        | (•)          | (•)       | (•)                          |                  |          | (•)      |                |
| codec                | SLICOFI              | PEB 3265<br>PEB 3264<br>PEB 3164<br>PEB 3165 | Single/dual channel analog termination solutions family optimized for access network and customer premises applications             | (•)          | (•)       | (•)                          |                  |          | (•)      |                |
| SLIC                 | SLIC-DC              | PEF4268                                      | Advanced ringing SLIC with integrated DC/DC converter                                                                               | •            | •         | •                            | (•)              |          | •        |                |
|                      | SLIC-LCP             | PEB 4262                                     | SLIC device optimized for US market linecard application                                                                            |              |           |                              |                  |          |          | •              |
|                      | SLIC-E               | PEB 4265                                     | Enhanced ringing SLIC                                                                                                               |              |           |                              |                  |          | •        | •              |
| IP-Phone             | INCA-IP              | PSB 21553                                    | Single-chip IP-phone solution with integrated 3-port ethernet switch                                                                |              |           |                              |                  | •        |          |                |
| xDSL CPE             | Amazon               | PSB 50510                                    | Highly integrated single chip for ADSL2/2+ modems, routers and home gateways                                                        | •            |           |                              |                  |          |          |                |
|                      | VINAX™-CPE           |                                              | Standard VDSL2 single-chip solution for modems and residential gateways                                                             |              | •         |                              |                  |          |          |                |
| Router               | ADM 5120             | ADM 5120                                     | Network processor with miniPCI, USB, GMII interface, 6-port ethernet switch and five integrated 10/100BT PHYs                       |              |           | •                            | •                |          | •        |                |
|                      | ADM 5120-P           | ADM 5120-P                                   | Network processor with 6-port ethernet switch and five integrated 10/100BT PHYs                                                     |              |           | •                            | •                |          | •        |                |
|                      | ADM 3120             | ADM 3120                                     | Network processor with integrated 3-port switch + 2 PHYs                                                                            |              |           | •                            | •                |          | •        |                |
| Wireless             | WildCard             | ADM 8628                                     | Highly integrated 802.11b/g WLAN access point controller                                                                            | (•)          | (•)       | (•)                          | (•)              |          | (•)      |                |
| Switch               | Samurai              | ADM 6696LC                                   | Advanced 5/6 port L2 switch controller                                                                                              | (•)          | (•)       |                              |                  |          | (•)      |                |
| DECT                 | DECT Step 7          | PMB 7725                                     | DECT/WDCT chipset for handset and basestation supporting both 1.9 and 2.4 GHz                                                       | (•)          | (•)       | (•)                          | •                | (•)      | (•)      |                |
| Bluetooth®           | BlueMoon             | PMB 8753                                     | Bluetooth 2.0 + enhanced data rate (2 Mbps and 3 Mbps) single-chip HCI solution                                                     | (•)          | (•)       | (•)                          | (•)              | (•)      | (•)      |                |
| ISDN                 | IPAC-X               | PSB 21150                                    | ISDN S-transceiver with extended HDLC controllers                                                                                   | (•)          | (•)       | (•)                          | (•)              |          | (•)      |                |
|                      | ISAC-SX              | PEB 3086                                     | ISDN S-transceiver with HDLC controller                                                                                             | (•)          | (•)       | (•)                          | (•)              |          | (•)      |                |
|                      | SBCX-X               | PEB 3081                                     | ISDN S-transceiver                                                                                                                  | (•)          | (•)       | (•)                          | (•)              |          | (•)      |                |
| Spinacer             | Spinacer IP-Phone    | STS 21553 B                                  | Application package IP-Phone                                                                                                        |              |           |                              |                  | •        |          |                |
|                      | Spinacer ADSL2+ GW   | STS 9101                                     | Application package ADSL Gateway                                                                                                    | •            |           |                              |                  |          |          |                |
|                      | Spinacer Router/ATA  | STS 9301                                     | Application package Router/ATA                                                                                                      |              |           | •                            | •                |          | •        |                |
|                      | Spinacer VoIP (SIP)  | STS 9911                                     | Add-on package VoIP (SIP)                                                                                                           | •            | •         | •                            | •                |          | •        |                |
|                      | Spinacer T.38        | STS 9921                                     | Add-on package T.38                                                                                                                 | •            | •         | •                            | •                |          | •        |                |
|                      | Spinacer WLAN        | STS 9931                                     | Add-on package WLAN                                                                                                                 | •            | •         | •                            | •                |          | •        |                |
| Evaluation platforms | EASY 50510 Annex A/B |                                              | ADSL2+ wireless IAD with DMZ support reference design                                                                               | •            |           |                              |                  |          |          |                |
|                      | EASY 50505 Annex A/B |                                              | ADSL2+ wireless IAD reference design                                                                                                | •            |           |                              |                  |          |          |                |
|                      | EASY 5120 WVoIP RT   |                                              | Wired/wireless VoIP Router reference design                                                                                         |              | •         | •                            | •                |          | •        |                |
|                      | EASY 21553           |                                              | IP-Phone reference design                                                                                                           |              |           |                              |                  | •        |          |                |

• = Key product

(•) = Add-on device

# Spinacer software solution suite

SPINACER IS A NEW MODULAR SOFTWARE SOLUTION for a wide range of broadband CPE applications, designed to compliment 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+ Gateway, VoIP Router/ATAs and IP-Phones that can also be enhanced with various add-on applications.



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