Customer Premises Equipment
Bringing broadband to life

www.infineon.com/wireline
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 1 Gbit/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 XWAY™ software (SW) solution suite offers dedicated comprehensive software solutions for ADSL2/2+ IAD, multipurpose and VoIP routers as well as for IP phones.

CAT-iq™ is the registered trademark of the DECT Forum.
CAT-iq™ is the new global technology for broadband home connectivity.
FUTURE HOME LIVING will involve many new access technologies which need to be integrated to allow for a great wealth of services. Today, one in three CPE boxes contains networking technology by Infineon to process high bandwidth signals at supreme quality levels. With the next-generation IAD super box, all connectivity standards, such as WLAN, DECT, and Ethernet, are supported.

OUR PORTFOLIO INCLUDES extremely power-efficient solutions for ADSL2/2+, SHDSL, and even VDSL2. With the Infineon® XWAY™ product family we drive innovative services such as Voice over IP, HD telephony, HD television, IPTV, video on demand, interactive gaming, distance learning, video conferencing, and high-speed internet access. Our solutions also allow for completely integrated control over all electric household appliances, including home surveillance and remote monitoring. Infineon brings broadband to life in every home, offering more services while at the same time reducing energy consumption.
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: XWAY™ DANUBE reference design for ADSL2/2+ IAD gateway Annex A/M/B

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

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

ADSL
ADSL2/2+ Gateway with Gigabit Ethernet and WLAN 11n

Features
- Mid to high-end ADSL2/2+ solution for WLAN 11n router and media xDSL gateway applications
- Worldwide xDSL interoperability
- Guaranteed QoS for Operator Services with Infineon Smart Acceleration (PPE/PPA/CPU)
- Innovative xDSL PHY features for superior IPTV experiences (Erasure Decoding, Retransmission etc.)
- Unparalleled routing performance due to PPE and support of Gigabit Ethernet
- Feature-complete networking stack incl. firewall, TR069 and more

Reference Design
- EASY 50810: XWAY™ ARX168 reference design

Key Products
- XWAY™ ARX168
- XWAY™ TANTOS or XWAY™ SAMURAI
- Optional WLAN 11n

ADSL2/2+ Bridge Modem/Combo Router

Features
- ADSL2/2+ bridge modem / router based on XWAY™ 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: XWAY™ AMAZON-SE reference design for ADSL2/2+ modem/router

Key Products
- XWAY™ AMAZON-SE
VDSDL2 / ADSL2/2+ IAD

Features
- VDSL2 / ADSL2/2+ IAD based on VINAX™-VE chipset
- 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
- XWAY™ VINAX-VE
- XWAY™ VINAX-A
- XWAY™ TANTOS-3G
- XWAY™ SLIC-DC
- PSB 1350A (WLAN b/g)

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

Add-on Devices
- Ethernet PHY

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VoIP Gateway + DECT

Features
- Ethernet VoIP router based on XWAY™
  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: XWAY™ TWINPASS-VE VoIP
  router reference design kit

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

Add-on Devices
- IPAC-X
- SLICOFI-1
Gigabit and Fast Ethernet Enterprise IP Phone

Features

- **XWAY™ 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
- 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

- **XWAY™ INCA-IP2S**
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 audio amplifier
- Integrated answering machine
- Option for base station with full-duplex speakerphone, keypad and polyphonic ringing (DTAM/STDBS)

Key Products
- COSIC™-ULC for handset and base station
- COSIC™-Standard for handset and base station
- 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 the XWAY™ software solution suite
- 4 simultaneous wideband G.722 calls (XWAY™ 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™-PLUS
- COSIC™-Modem
ADSL

XWAY™ 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
- XWAY™ DANUBE-S with hardware encryption

XWAY™ ARX168

PSB 50810
High-end single-chip ADSL2/2+ router and gateway solution
- Worldwide xDSL interoperability footprint
- Dual virtual core processor with Infineon Smart CPU Architecture
- Innovative DSL PHY features for superior IPTV over xDSL quality
- Advanced interfaces: 2 GMII, 2 USB2.0 Host / Device, PCI
- Complete software solution

XWAY™ AMAZON-SE

PSB 50601, PSB 50600
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

XWAY™ 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
- Complete software solution
VDSDL

**XWAY™ VINAX-VE chipset**

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

**XWAY™ VINAX-E chipset**

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

**XWAY™ VINAX-D chipset**

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
Network Processor and Switch

**XWAY™ 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

**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 XWAY™ VINETIC-CPE / ATA and XWAY™ SLIC-DC
- ADM3120B provides small package for tiny ATA applications

**XWAY™ 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

**XWAY™ 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
VoIP and IP Telephony

**XWAY™ VINETIC-1 / -2PLUS**

PEB 33322
Single-chip VoIP processor / XWAY™ SLIC
- Integrated VoIP DSP, codec and XWAY™ 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

**XWAY™ 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 XWAY™ 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
VoIP and IP Telephony

XWAY™ DUSLIC-xT1 / -xT2 / -FX0

PEF 3101 F, PEF 3102, PEF 3111 F
Energy-efficient, low-power single-chip CODEC/ SLIC solution
- Ideal for CPE designs including: cable modems (eMTA), xPON/WIMAX gateways, VoIP ATAs, SOHO IP PBX
- Lowest power consumption
- Low cost power supply concept
- Reduced board space and RBOM
- Best-in-class line testing (GR.909)
- Support of wideband audio

XWAY™ 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
XWAY™ 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

XWAY™ 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 PHYs
- Powerful 262 MHz CPU
- HD sound / wideband codecs
DECT / CAT-iq™

COSIC™-ULC

Handset and base station

- Single-chip DECT and DECT 6.0 silicon 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

- Extended DSP for answering machine (over 15 mins. recording with 4 MB flash)
- Two versions – with and without full-duplex speaker-phone in base station with integrated amplifier
- Keypad and polyphonic ringing

COSIC™-Standard

Handset and base station

- Extended DSP
- Color display support with white LED driver
- True polyphonic ringing
- Full-duplex hands-free with integrated amplifier
- Integrated answering machine on base station version

COSIC™-PLUS

- Single-chip DECT and DECT 6.0 handset device 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

COSIC™-Modem

Innovative system approach for DECT/CAT-iq™ VoIP gateway solutions

- Highly integrated SoC modem integrating baseband, RF and PA
- DECT, DECT 6.0 and CAT-iq™ compliant with long slot support
- Design allows lowest DECT BOM – no Flash required for DECT
- Optimal task split between CPU and COSIC™-Modem
- DECT Stack and Agent running on main processor
XWAY™ Software Solution Suite

Infineon offers 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%, the XWAY™ Software Solution Suite 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.

Linux® is the registered trademark of Linus Torvalds
<table>
<thead>
<tr>
<th>Product family</th>
<th>Product name</th>
<th>Sales code</th>
<th>Description</th>
<th>xDSL Modem</th>
<th>xDSL IAD</th>
<th>Router</th>
<th>VoIP Router</th>
<th>IP Phone</th>
<th>Cordless Telephony</th>
<th>WAN xDSL</th>
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<tbody>
<tr>
<td>DSL CPE</td>
<td>DANUBE</td>
<td>PSB 50702</td>
<td>Single-chip ADSL2/2+ gateway</td>
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<td></td>
<td>DANUBE-xT1</td>
<td>PSB 50712</td>
<td>with integrated VoIP and 2-channel codec</td>
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<td>XWAY™ ARX168</td>
<td>PSB 50810</td>
<td>High-end single-chip for ADSL2/2+ routers and gateways</td>
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<td>AMAZON SE</td>
<td>PSB 50601</td>
<td>Highly integrated single-chip for ADSL2/2+ bridge modems and combo routers</td>
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<td>AR7</td>
<td>PSB 7200</td>
<td>ADSL2/2+ router chip</td>
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<td>VINAX-VE</td>
<td>PEB 80800</td>
<td>Mid to high-end VDSL2 gateway/ IAD with integrated network processor, VoIP and 2-channel codec</td>
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<td>VINAX-A</td>
<td>PSB 80170</td>
<td>VDSL2 router device with integrated network processor</td>
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<td>VINAX-E</td>
<td>PEB 80700</td>
<td>VDSL2 modem solution supporting all profiles up to 50a</td>
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<td>VINAX-D</td>
<td>PEB 80170</td>
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<td>SOCirates-4e</td>
<td>PXF 24628</td>
<td>SHDSL system-on-chip for EFM applications</td>
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<td>SDFE-4</td>
<td>PEB 24624</td>
<td>Single-chip 4-, 2-, 1-channel SHDSL bis transceiver</td>
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<td>SDFE-2</td>
<td>PEB 22624</td>
<td>Single-chip 4-, 2-, 1-channel SHDSL bis transceiver</td>
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<td>SDFE-1</td>
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<td>Single-chip 4-, 2-, 1-channel SHDSL bis transceiver</td>
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<td>Switch</td>
<td>SAMURAI</td>
<td>ADM 6996</td>
<td>Advanced 5/6 port layer 2-switch controller with integrated PHYs</td>
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<td>TANTOS</td>
<td>PSB 6970</td>
<td>Gigabit Ethernet switch with GMII and 10 / 100 ST PHYs supporting IGMP</td>
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<td>WLAN</td>
<td>PSB 1350</td>
<td>PSB 1350</td>
<td>Wireless LAN 802.11 b/g solution for ADSL CPE</td>
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<td>PSB 1450</td>
<td>PSB 1450</td>
<td>Wireless LAN 802.11 b/g solution with USB</td>
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<td>Cordless</td>
<td>COSIC-UC-LC</td>
<td>PMB 9600</td>
<td>DECT single-chip with integrated BB, RF and PA (handset and base station)</td>
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<td>COSIC-Standard</td>
<td>PMB 9602</td>
<td>DECT single-chip with integrated BB, RF and PA with enhanced feature set</td>
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<td>COSIC-OTAM</td>
<td>PMB 9614</td>
<td>DECT single-chip with integrated BB, RF and PA with answering machine functionality</td>
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<td>COSIC-PLUS</td>
<td>PMB 9603</td>
<td>DECT and CAT-iq™ single-chip supporting wideband speech (HD sound)</td>
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<td>COSIC-Modem</td>
<td>PMB 9643</td>
<td>Single-chip modem with integrated BB, RF and PA. Compliant with DECT/ DECT 6.0 and CAT-iq™ standards</td>
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<td>VoIP</td>
<td>VINAX-1/2-CPE</td>
<td>PEB 3331/2</td>
<td>1-3/2-channel codec and VoIP DSP with simultaneous 2-4-channel VoIP (6.729, 6.723.1, 6,8, 12, 24, RTP)</td>
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<td>VINAX-1/2-ATA</td>
<td>PEB 3341/2</td>
<td>1-3/2-channel codec and VoIP DSP with PEB 3341/2-1 simultaneous 1-3 channel VoIP (6.729, 6.723.1, 6,8, 12, 24, RTP)</td>
<td>(x)</td>
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<td>VINEX-1</td>
<td>PEB 3520</td>
<td>VoIP DSP with 4 channels (6.729, 6.723.1, 6,8, 12, 24, RTP)</td>
<td>(x)</td>
<td>(x)</td>
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<td>Codec SLIC</td>
<td>DSLSIC-SP</td>
<td>PEB 3268</td>
<td>Single package - 3-2 channel codec</td>
<td>(x)</td>
<td>(x)</td>
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<td></td>
<td>DSLSIC-tx1/tx2</td>
<td>PEB 5201F</td>
<td>DECT modem single-chip with integrated BB, RF and PA with answering machine functionality and CAT-iq™ support</td>
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<td>SLIC-DC</td>
<td>PEB 4268</td>
<td>SLIC device in conjunction with DANUBE, TwinPass-VE, VINAX-VE and VINETIC devices</td>
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<td>SLICOFI</td>
<td>PEB 5164</td>
<td>Single-channel codec</td>
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<td>IP Phone</td>
<td>INCA-IP2S</td>
<td>PSB 21653</td>
<td>Single-chip IP phone device with gigabit Ethernet and USB</td>
<td>(x)</td>
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<td></td>
<td>INCA-IP3F</td>
<td>PSB 21650</td>
<td>Single-chip IP phone device with Fast Ethernet</td>
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<td>ISDN</td>
<td>ISAC-X</td>
<td>PSB 21105</td>
<td>ISDN S-Transceiver with extended HDLC controllers</td>
<td>(x)</td>
<td>(x)</td>
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<td>PEB 3086</td>
<td>ISDN S-Transceiver with HDLC controller</td>
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<td>Software</td>
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<td>ADSL Router</td>
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<td>System solution software for ADSL router</td>
<td>(x)</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 VDSL2 option</td>
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<td></td>
<td>Router</td>
<td>STS 9301</td>
<td>System solution software for router</td>
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<td></td>
<td>VoIP Router</td>
<td>STS 9501</td>
<td>System solution software for VoIP router</td>
<td>(x)</td>
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(* = Add-on Device  • = Key Product)
In addition to the CPE Brochure, 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.

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