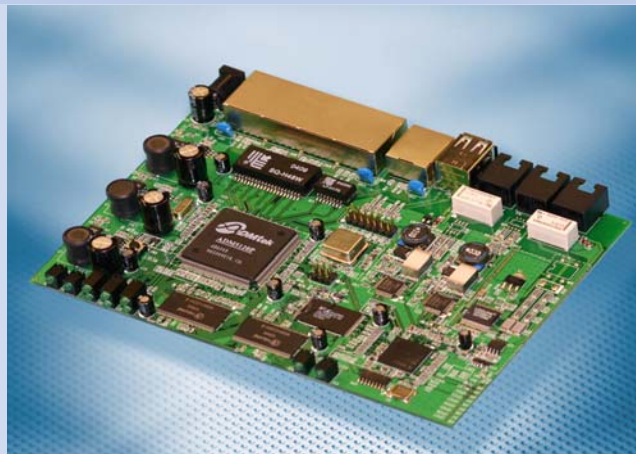


EASY 5120P-ATA

2-Channel ATA VoIP Router
Reference Platform V2.2



The EASY 5120P-ATA reference platform demonstrates Infineon's Analog Telephone Adapter (ATA) for VoIP designs for SOHO, SME network applications. This reference platform also allows system engineers to develop VoIP router solutions in short time-to-market cycles.

The EASY 5120P-ATA demonstrates a complete ATA based on Infineon's VoIP and SLIC technologies, and features the ADM5120P network processor for higher layer communication interfaces and management, the packet-voice quality enabled by the VINETIC-2CPE (PEB 3332 EL) DSP codec, and the highly flexible SLIC-DC (PEF 4268 F).

Applications

The EASY 5120P-ATA reference meets all relevant ATA requirements for a packet voice transmission unit and supports industry standard vocoders (G.723, G.726 and G.729), jitter buffer operation, T.38 fax relay and line echo cancellation.

The combined package consisting of the ADM5120P network processor, the SLIC-DC, and the VINETIC chipset delivers a complete telephony solution for SOHO and SME environments.

A fully programmable AC/DC interface provides multi-regional compatibility without the need for hardware modifications for simplicity of design and reduced BOMs.

Hardware Features

- Highly integrated Analog Telephone Adapter
- One WAN interface on-board
- Four LAN interfaces on-board
- Two USB Host interfaces Rev. 1.1 on-board
- Two POTS interfaces for analog telephones or fax machines
- One PSTN line can be connected to the board (optional lifeline support)
- RS-232 daughter board serial interface
- Support for EJTAG debugger interface
- Requires +12 V power supply only

Software Features

- Embedded Linux® kernel version 2.4.20, based on MontaVista® Professional Edition 3.1
- Device drivers for all internal peripherals
- Supports TCP/IP related networking protocols (IP, TCP, UDP, ARP, RARP, ICMP, DHCP, PPP, and PPPoE)
- NAT, NAPT, ALG, Firewall, Address filtering, DNS, NTP
- Download function via TFTP
- Web and CLI based configuration
- SIP complies with RFC 3261
- SDP complies with RFC 2327
- Media transport through UDP and RTP/RTCP
- Caller ID display/transmit
- Basic supplementary call features (call on hold, call transfer, call forwarding and call waiting)
- In-band DTMF signal transmission
- Provide jitter buffer adjustment (fixed or dynamic)
- Silence Suppression, Voice Activity Detection and Comfort Noise Generation
- Line Echo Cancellation complies with G.165/G.168
- Voice Codec includes: G.711, G.723.1, G.726, G.728, G.729 A/B and annexes
- Provide FAX pass-through (G.711) and FAX relay (T.38)
- Provide QoS include: DiffServ marking, type of service (ToS) marking, prioritize voice and data traffic and bandwidth management

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Wireline Communications



Never stop thinking.

Ordering Information

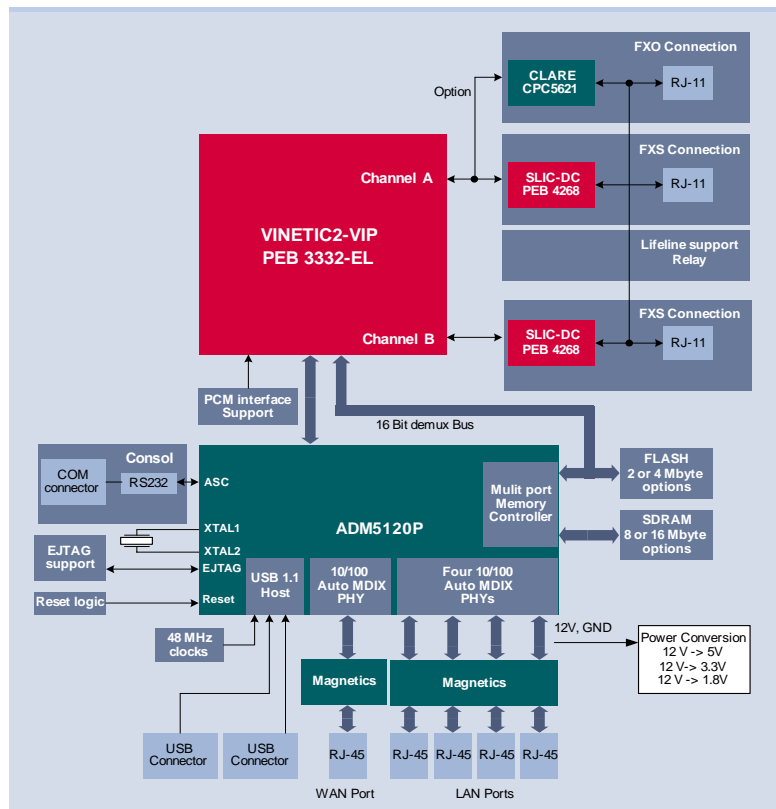
Core Technology Products

| Product | Sales Code | Description | Package |
|--------------|-------------|---|---------------|
| VINETIC-2CPE | PEB 3332 EL | VINETIC-2CPE is an analog voice access IC with two-channel codec optimized for Customer Premises Equipment (CPE). | PG-LBGA-144-1 |
| SLIC-DC | PEF 4268 F | SLIC-DC is a high-voltage ringing Subscriber Line Interface Circuit with integrated DC/DC converter. | P-TQFP-48-1 |
| OpenGate-P | ADM5120P | Communication network processor for higher layer communication interfaces and management | P-QFP-208 |

Reference Platform

| Product Sales Code | Description | Package |
|--------------------|--|---------------------------------------|
| EASY 5120P-ATA | Highly integrated 2-channel ATA VoIP router hardware reference platform for SOHO VoIP router software development. | One board, and Linux Software package |

Complete ATA VoIP Application Example



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