

FUSIV™ - VX 150 VoIP Network Processor

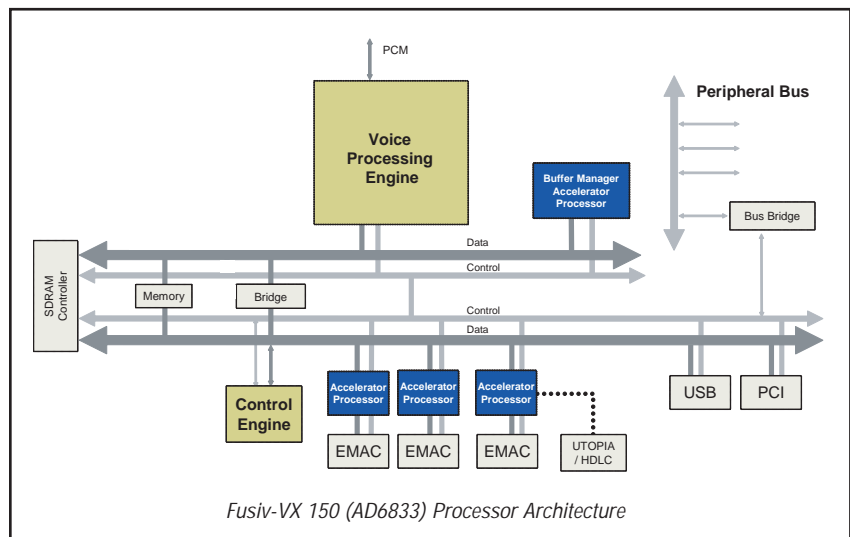
Key Features:

Fusiv-VX 150 offers features attractive to a broad set of networked Voice/Audio applications for Broadband Gateway systems:

- ◆ Single Platform for Full-Chain Voice Processing, Host Processing, Packet Processing, Switching & Routing
- ◆ Voice-over-Network Solution for 2 to 4 Channels with On-Chip DSP/Voice Processing
- ◆ Rich set of Industry Standard Network and Bus Interfaces for LAN and WAN
- ◆ Wire Speed Ethernet, Layer-2/3 Switching and Routing with Accelerator Processor Engines
- ◆ ADSL ATM Processing with Utopia Interface
- ◆ Comprehensive Software including Full-Chain Voice, Signaling and Packet Processing
- ◆ Fusiv-VX 150 in conjunction with external Analog Devices BlackFin Processors can scale up to 50 Channels and Modular Expansion beyond 50 Channels
- ◆ Reference Platforms with Integrated Software

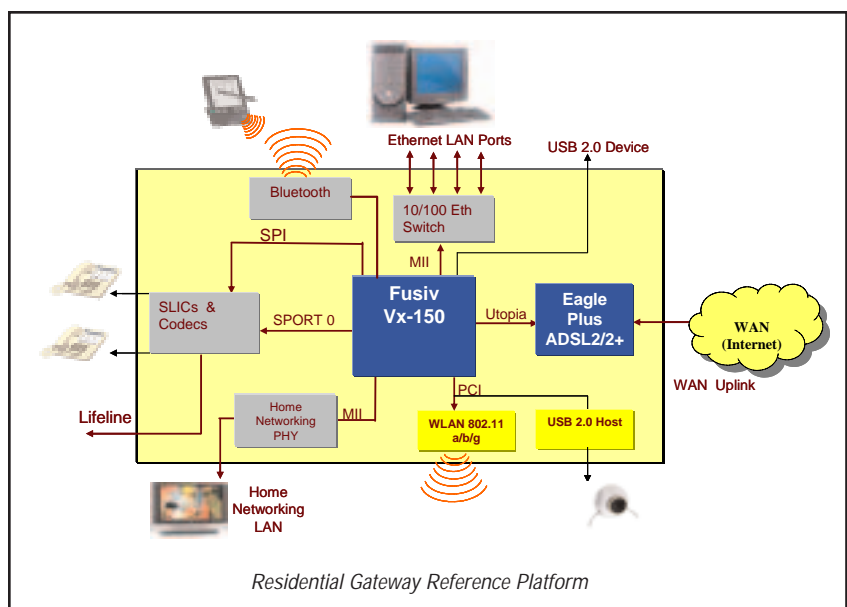
Applications:

- ◆ Residential Gateway
- ◆ Analog Telephone Adapter
- ◆ IAD
- ◆ IP-PBX
- ◆ VoIP Gateway



A New Level of Voice and Network Processing Integration

Analog Devices' Fusiv-VX 150 processor provides an unparalleled integration of Full Chain Voice Processing, Signaling and Network Protocol Processing on a single chip, targeted at a broad range of Residential Gateway and SME Gateway products. The Fusiv-VX 150 has an on chip DSP/Voice Engine for handling up to 4 channels of Full-Chain Voice and can be interfaced with Analog Devices EaglePLUS™ ADSL2/2+ chipset to support "Triple-Play" ADSL Gateways with data, voice and video passthrough capability. The Fusiv-VX 150 can be combined with Analog Devices portfolio of Blackfin® Processors for scaling up the number of voice channels and to add video processing including Multi-Format Decoding and Encoding.



Wire Speed Packet Processing with Accelerated Processor Engines

The Fusiv-VX 150 incorporates Accelerated Processor (AP) Engines to achieve scalable wire speed performance. AP Engines offload much of the packet processing and forwarding functionality from the CPU. AP engines provide hardware like performance with software like flexibility. Since most of the data path functions are handled by the AP engines, the system vendor has more of the main CPU processing power for system applications. The Fusiv-VX 150 has multiple AP engines on board to assist with Ethernet and ATM Processing.

ATM Processing

The Fusiv-VX 150 optionally offers Multi-PHY UTOPIA L1/L2 interface instead of the 3rd 10/100 Ethernet interface for ATM based applications. ATM processing scalability is achieved with Accelerator Processor Engines. The Fusiv-VX 150 can scale up to handle high bandwidth Broadband ATM applications such as ADSL, Passive-Optical-Network (PON) and VDSL applications. Fusiv-VX 150 can be interfaced with Analog Devices EaglePLUS™ ADSL2/2+ chipset for ADSL Gateway applications.

Software and Reference Platforms

The Fusiv-VX 150 Operating Systems support includes Wind River Systems-VxWorks and Linux. Analog Devices also provides reference platforms with Board Support Packages and fully integrated software for a range of applications.

On-Chip Voice Processing

The DSP/Voice Engine in the Fusiv-VX 150 enables full chain voice processing on chip. Analog Devices provides optimized and integrated voice chain software for the Fusiv-VX 150 which includes:

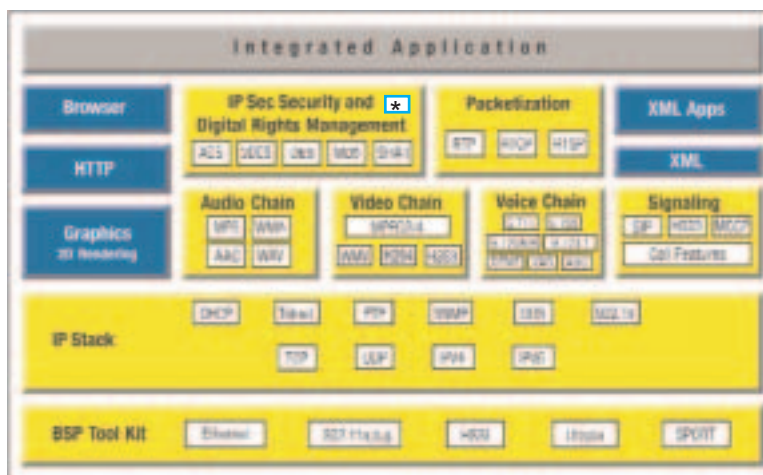
- ◆ Compression - G711, G.723.1, G.726, G.729AB, T.38
- ◆ DTMF
- ◆ Echo Cancellation - G.168
- ◆ Call Progress Tone Generation
- ◆ Voice Activity Detection (VAD) and Comfort Noise Generation (CNG)
- ◆ Caller ID Generation
- ◆ Packet Loss Concealment (PLC)

Analog Devices also provides Signaling and Packetization related software including:

- ◆ SIP, H323 & MGCP Protocols
- ◆ Packetization, RTP and RTCP
- ◆ Call Features
- ◆ Adaptive Jitter Buffer

Analog Devices provides a comprehensive portfolio of software for the Fusiv-VX 150 including:

- ◆ Full-Chain Voice Processing
- ◆ VoIP Signaling
- ◆ Network Management
- ◆ IP Middleware
- ◆ Routing / Switching
- ◆ SNDCP
- ◆ ATM



* Note: IP Sec Security not supported in VX 150

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The Fusiv Network Processor Family

The Fusiv-VX 150 is a pin-compatible version of the The Fusiv-VX 200 without the crypto-engines with IP-Sec software.

For more information on this product, please contact: nmp_marketing@analog.com
or visit us on the web at: www.analog.com/networking