

Fusiv®

Vx200-IKF6834

For Customer Premises Equipment



Target Markets

- Multi-dwelling, Multi-tenant Units (MxU)
- FTTx Units
- CPE Equipment for Video, Data and Voice Service
- SME

Target Applications

- Residential Gateway
- SME/SOHO
- Enterprise
- IAD Gateway
- IP PBX and ISDN Routers and Bridges
- IP-STB

Software

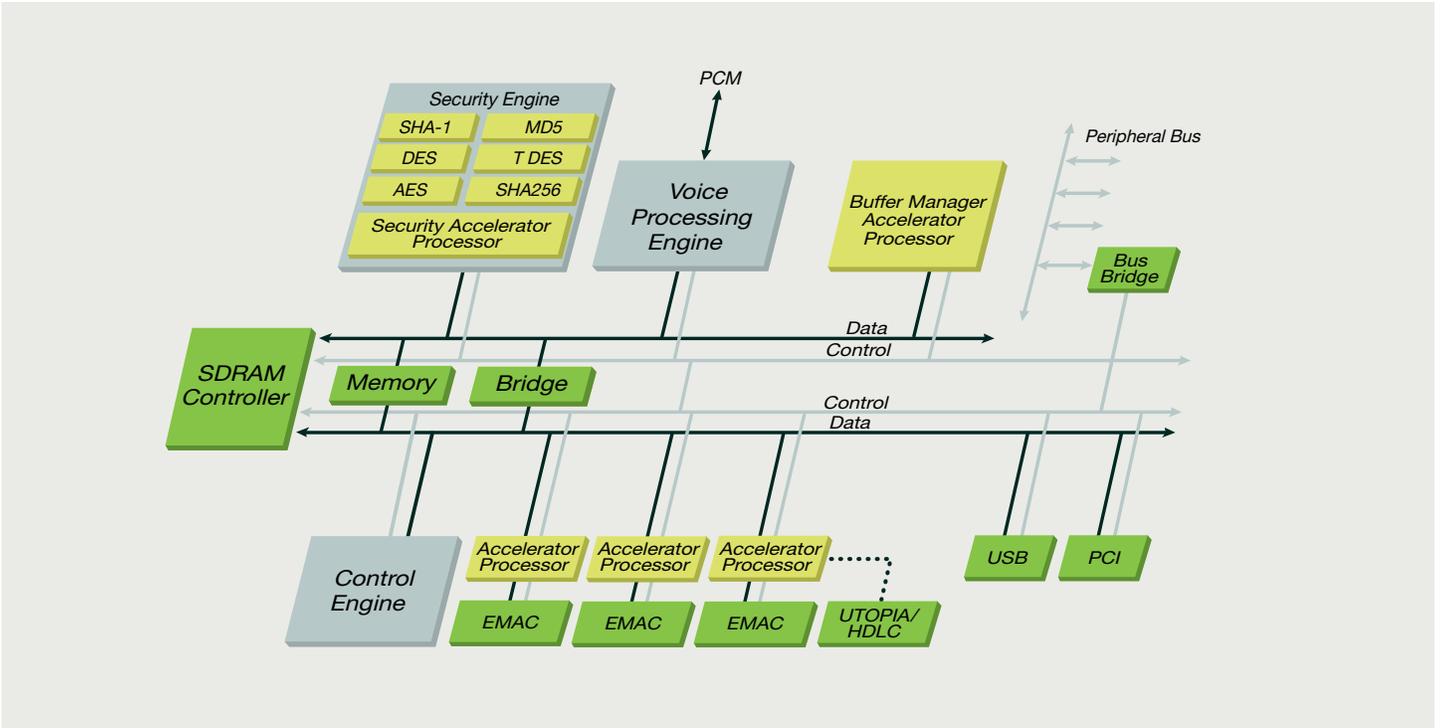
- FusivWare™ advanced Linux-based operating software
- Full-Chain Voice Processing
- VoIP Signaling
- Network Management
- IP Middleware
- Routing / Switching
- ATM

Ikanos' Fusiv® Vx200 IKF6834 chipset offers a new level of voice, security and network processing integration.

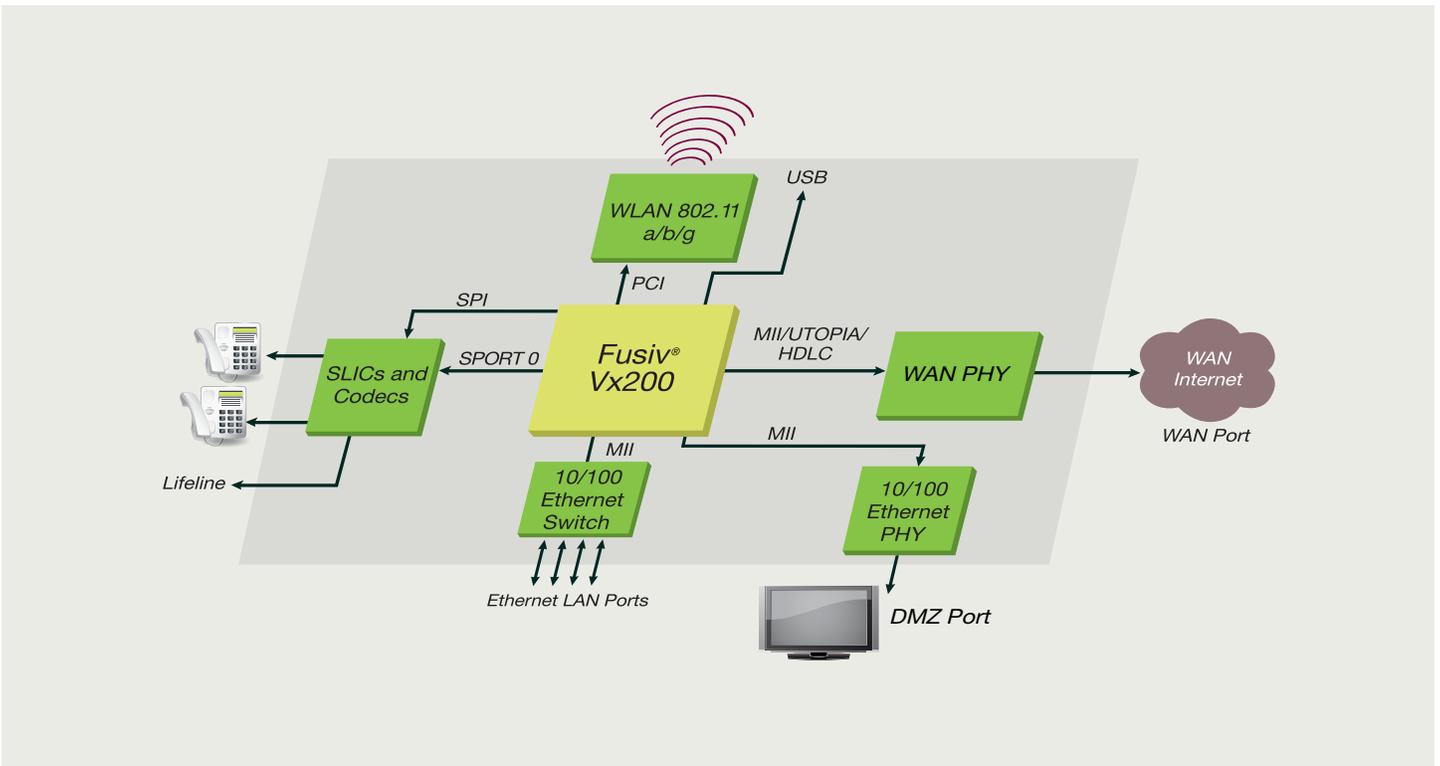
Ikanos' Fusiv Vx200 IKF6834 provides an unparalleled integration of full chain voice processing, signaling, network protocol processing and security /crypto processing on a single chip. The high-performance gateway/SME processor enables voice/data bundled services for customer premises equipment and provides high-speed switching, routing, packet filtering, and firewall functions.

Distinctive features include micro-coded data path computing engines called Accelerator Processors, which enable hardware-like performance and software-like flexibility, giving the IKF6834 a capacity beyond that of conventional communications processors. A built-in security engine allows users to build IPSec enabled data and voice applications.

Fusiv® Vx200 Processor Architecture



Fusiv® Vx200 Security Gateway



Key Features

- Highly Integrated Processor
 - Enables manufacturing to build cost effective residential gateways, VoIP gateway and integrated access devices
 - 200 MHz 32-bit RISC host processor
 - Low BoM cost
 - Enables carriers to offer voice, data and video services over copper or Ethernet
- Built-in Voice Engine
 - No external DSP engine required to process voice chain
 - Lowers BoM cost
- Interface to external DSP
 - Expands to support high channel density
 - Enables the development of a SME gateway with high channel density
- Wire Speed Packet Processing
 - Supports high bandwidth intensive applications
 - Reliable video, voice and data processing services are possible
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- Accelerator Processing Engines – 5x 200 MHz
 - Wire speed Ethernet and ATM processing
 - AP engines handle data path tasks leaving main CPU to handle system tasks resulting in a scalable system
- ATM Processing
 - The Fusiv Vx200 can scale-up to handle high bandwidth Broadband ATM applications like Sonet, Passive-Optical-Network (PON) and VDSL applications
- Interface to external VDSL/ATM Phy
 - Enables low cost ADSL2+/VDSL2 residential gateway
- Security Engine
 - Supports IPSec enabled data and voice applications

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