Product Overview
The Intel® IXDPG425 Network Gateway Reference Platform provides an easy to use platform with complete schematics, bill of materials (BOM) and PCB design source files to provide a significant improvement in time to market for developers of leading edge gateway products.

The Intel® IXDPG425 Reference Platform demonstrates the scalability of the Intel® IXP425 network processor as a solution for a wide range of applications from wireless residential gateways to security solutions providing VPN termination, to a complete Voice over IP (VoIP) solution for the small office.

Product Highlights
The Intel IXDPG425 Network Gateway Reference Platform accelerates time-to-market by providing the user with a complete hardware solution combined with the availability of turnkey applications or development environments.

- Complete schematic source files and PCB Gerbers to assist in design customization (Available from your local Intel Sales Representative)
- Complete VoIP gateway implementation for voice and data CPE applications
- On board Intel IXP425 533 MHz network processor
- Compact 6"x9" design
- 32 MB SDRAM (pad-out for up to 128 MB)
- 16 MB Socketed FLASH memory (pad-out for up to 32 MB)
- Available demonstration applications—For the latest third-part applications, go to http://developer.intel.com/design/network/products/npfamily/ixdpg425.htm

Key Interfaces
- Voice: 4 FXS ports (RJ11) for analog phone connections
- 1 PSTN failover port (RJ11)
- LAN: Switched Ethernet 4—10/100 Ports
- WAN: 1—10/100 Ethernet port for broadband connectivity
- WAN: UTOPIA-2 mezzanine connection for use with xDSL
- mPCI−2 available slots (32 bit/33 MHz)
- 1 RS-232 Interface
- USB 2.0: 2 host ports (EHCI) using NEC* solution
- USB 1.1: 1 device port
- 9 Status LEDs
- JTAG
- Power: Input: 100–250v, 50/60 Hz, 0.8A Output: 12vdc, 2.5A

Figure 1. Intel® IXDPG425 Network Gateway Reference Platform
Supported Software

Voice Features
- Analog telephone interface
- 4 FXS ports
- 1 PSTN failover port
- Software codecs via third-party applications that utilize Intel® IXP400 DSP software

Intel® IXDPG425 Reference Platform Includes:
- 1 IXDPG425 Baseboard
- 2 Ethernet cables
- 1 USB cable
- 1 Cat 3 cable with male RJ11 connectors
- 1 Brick power supply
- 1 Installed flash chip with bootloader code
- 1 10-pin to DB9 conversion cable

Ordering Information
- Contact your local Intel sales representative to order

Figure 2. Block Diagram for the Intel® IXDPG425 Network Gateway Reference Platform