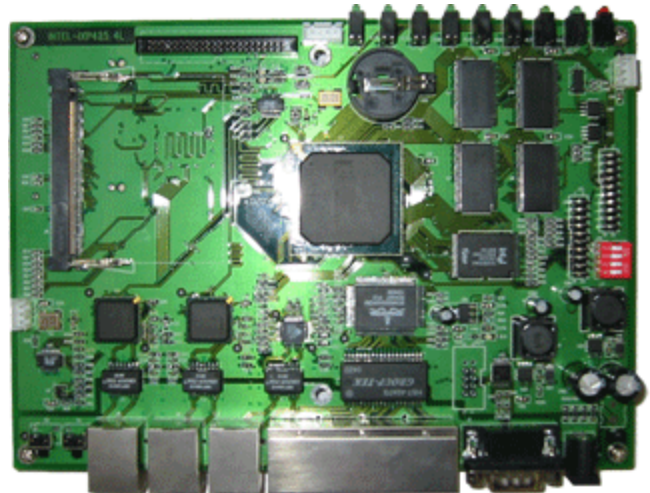


# THDP-IXP425-II: Intel® IXP425 Development Board

## Power your product

### Overview

THDP-IXP425-II is a successor of THDP-IXP425-I from TenHz Software, which is customized to meet the requirements of network security and network storage applications. It is a ready-to-go prototype for applications in the area of multi-port network access and network storage products, such as high-end firewall, VPN, Mail Filter, SAN (Storage Area Network) device, network database device, security SOHO router/gateway and so on.



IXP425 provides on-chip Network Processor Engine (NPE) for wire-speed network processing performance. It also provides integrated hardware acceleration of popular cryptography algorithms (SHA-1, MD5, DES, 3DES, AES) for secure applications, high-speed serial ports and Utopia2 for WAN connectivity, 32-bit 33/66 MHz standard PCI v2.2 host and option interface for glueless connection of up to four devices.

The available peripherals in THDP-IXP25-II include: NPE1 10/100M Ethernet, NPE0 10/100M 4-Port Ethernet Switch, 2 Intel 82559 PCI Ethernet, 44-pin IDE, Mini-PCI Socket, DB-9 RS-232 Serial, 10-pin Modem UART, RTC and LED Indicators.

### Development Kit

- ◆ THDP-IXP425-II board
- ◆ Included Quick Start CD-ROM:
  - Redboot Bootloader Software
  - TenHz Linux 1.0 SDK, including completed cross-development toolchains, root filesystem and software development manual (Linux kernel and driver source codes are further charged)
  - Schematics File ( PDF )
  - THDP-IXP425-II hardware development manual
- ◆ THDP-IXP425-II accessories: RS-232 Serial Cable, 5V DC Adapt

# Intel® IXP425 Development Board

## Feature

Function Unit	Interface/Feature	Description
Minimal System	CPU	IXP425@266/400/533MHz, 400MHz by default
	NOR Flash	8/16/32MB, 16MB by default
	SDRAM	64/128MB, 64MB by default
	JTAG	20-Pin EJTAG
	COM0	RS-232 Serial UART
Ethernet	LAN0	NPE0, 10/100M Ethernet
	LAN1	NPE1, 4-Port 10/100M Switch
	LAN2	Intel 82559 PCI 10/100M Ethernet
	LAN3	Intel 82559 PCI 10/100M Ethernet
Expansion	Mini-PCI	32-bit 33/66 MHz PCI 2.2, 1 Mini-PCI Socket
Others	LED	7 LAN Link/Active LED, 1 Power LED
	RTC	Real-Time Clock
	Button	1 Reset button and 1 GPIO button
	Power	5V/2A, 2.1mm Socket
	Consumption	3.5W average, 6W maximum
	Size	203mm×145mm

## Illustration

