

THDP-IXP425-I: Intel® IXP425 Development Board

Power your product

Overview

THDP-IXP425-I is the first IXP425 development board from TenHz software, which is especially for low-cost SME (Small-to-Middle Enterprise) and SOHO (Small Office Home Office) network access applications, such as WLAN AP (Access Point), ADSL Router and VOIP gateway.



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-I include: NPE1 10/100M Ethernet, NPE0 10/100M 4-Port Ethernet Switch, PCI Socket, Mini-PCI Socket, DB-9 RS-232 Serial, RTC and LED Indicators.

Development Kit

- ◆ THDP-IXP425-I board
- ◆ Included Quick Start CD-ROM:
 - Flash Programming Utility
 - 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 furtherly charged)
 - NPE microcodes software
 - Schematics File (PDF)
 - THDP-IXP425-I Hardware Development Manual
- ◆ THDP-IXP425-I accessories: RS-232 Serial Cable, 5V DC Adapt

Intel® IXP425 Development Board

Feature

Function Unit	Interface/Feature	Description	Note*
Mininal Ssystem	CPU	IXP425@266/400/533MHz, 400MHz by default	
	NOR Flash	8/16MB, 8MB by default	
	SDRAM	64/128MB, 64MB by default	
	JTAG	20-Pin EJTAG	
	COM0	RS-232 Serial UART	
Ethernet	LAN0	NPE0, 10/100M Ethernet	96Mbps
	LAN1	NPE1, 4-Port 10/100M Switch	96Mbps
Expansions	PCI	32-bit 33/66 MHz PCI 2.2, 1 PCI socket	
	Mini-PCI	32-bit 33/66 MHz PCI 2.2, 1 Mini-PCI	
Other	LED	5 LAN Link/Active LEDs and 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	190mmx140mm	

Illustration

