

Small-size Network NTNP435C Board

Intel® IXP435 Broadband Network Processor Board



Product Overview

The IXP435 is the new next-generation processor of Intel offering significant integration family, it's superior than Intel® IXP425 in functionality and performance. NTNP435C board which is based on IXP435 provides a quick and strong evaluation environment for Intel® IXP435 based application development. Also, this board is designed to be embedded into customers' products as a high performance network processing module.

The platform is well suited for applications such as wireless access points, routers, network appliances, and general-purpose embedded computing. It is fully RoHS compliant and is in full production. Linux support is being supplied by Timesys.

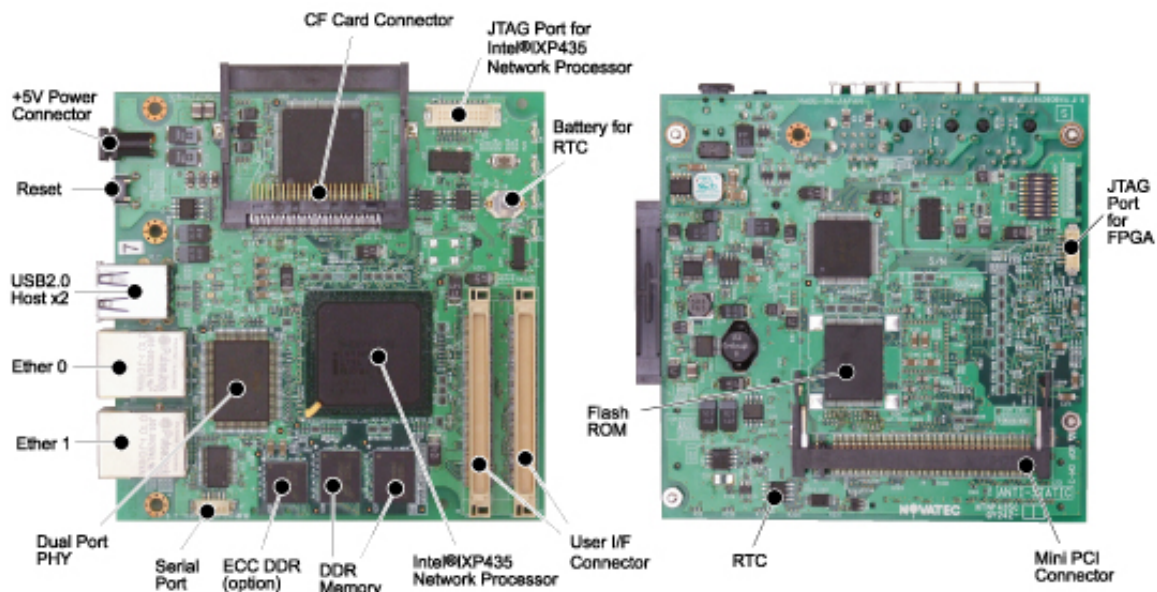
The NTNP435C board is also available in production volumes as a low-cost CPU module for a wide range of communications, networking, wireless, and embedded control applications.

With many years R&D expertise in Intel® XScale technology, Flexcomm offers complete service and support to facilitate customers' development.

Suited for Networking of Various Embedded Devices

Features	Benefits
Small Size CPU Board	105x105mm (Approx. 4x4 inch) Size Board
High Performance Network Processor Engines	Enables high throughput processing by having packet processors on each Ethernet port
Intel® XScale Core	Intel® XScale core makes possible various applications including audio-compression and expansion
Encryption and Decryption Hardware	Support of DES/3DES/AES cryptography algorithm and SHA1/MD5 hash algorithm enabling highly secure high-speed communication
User Function Interface	Optional expansion of functions depending on users

Ports and Specifications



Features	Specification
Main Processor	
Applied Processor	Intel IXP435 Network Processor, 667MHz (266/400/533MHz available)
Memory	
Program Memory	Flash ROM 16/32Mbyte (Standard 16Mbyte)
Main Memory	DDR-II Main 128Mbyte+ECC option
External Interface	
LAN Interface	10 BASE-T/100BASE-TX (AUTO-MDI/MDIX)
Serial Interface	One full-duplex, asynchronous communication method
USB Interface	Two USB2.0 Host Interface
Expansion Interface	
Mini PCI Interface	PCI Rev 2.2 compatible, Mini PCI Type III compatible
Compact Flash Interface	PCMCIA compatible
User Function Interface	Connectivity with expansion modules
Power	
Capacity	DC 5.0V 2.3A (Max)
Dimensions	
Dimensions	105 (W)x105 (H)x21 (D)mm
Mass	Approx. 100g
Usage Environment	
Temperature	0~50 Centigrade degree
Humidity	20%Rh~90%Rh (Non-condensing)
Storage Temperature	-10~60 Centigrade degree