

Small size Network Board
with Intel®IXP425 Network Processor



**Intel® IXP425
Broad
Band
Network
Processor
Board**

Suitable for networking of various embedded devices

- **Small size CPU module**
A7 size (75x105mm, approx. 3x4 inch) board
- **Network Processor Engines**
on each Ethernet port enable high throughput packet processing.
- **High Performance Intel® XScale core**
can execute various applications such as voice compression and decompression.
- **Encryption and Decryption Hardware**
support of DES/3DES/AES cryptography algorithm and SHA1/MD5 hash algorithm enables highly secure high-speed communication.
- **User Function Interface**
enables connection with user specific function boards.

Novatec Corporation
http://www.novatec.co.jp/eng/index_e.htm

NTNP425C Function Specification

Feature	Specification
Main Processor	
Applied Processor	Intel® IXP425 Network Processor
Clock Speed	533MHz (266/400MHz available)
Memory	
Program memory	Flash ROM 4/8/16Mbyte (standard 16Mbyte)
Main memory	SDRAM 32/64/128Mbyte (standard 64Mbyte)
Nonvolatile memory	EEPROM 512byte
External Interface	
LAN Interface	
Interface Specification	10BASE-T/100BASE-TX (AUTO-MDI/MDIX)
Number of Ports	2
Connector Type	RJ-45 (status LED, with transformer) x 2
Serial Interface	
Interface Specification	Full-duplex, asynchronous communication method
Signal level	V.28 (RS-232)
Number of Channels	2
Connector Type	3Pin Small-size connector x 1, 5Pin Small-size x 1
USB Interface	
Interface Specification	USB2.0 Host Interface max. 300mA (2 ports total)
Number of Ports	2
Connector Type	USB TYPE A connectors x 2
Expansion Interface	
Mini PCI Interface	
Interface Specification	PCI Rev 2.2 compatible, Mini PCI Type compatible
Number of Slots	1
Connector Type	Mini PCI Type compatible connector
User Function Interface	
Application	Connectivity with expansion modules
Interface Specification	Expansion Bus, PCI Rev 2.2 Bus (33MHz, 32bit), WAN/Voice NPE I/F (Utopia, HSS), GPIO, etc.
Connector Type	0.635mm pitch, 280Pin, Stack height 16mm
Power	
Capacity	DC3.3V, 3A (max) (Power can be supplied through 3.3V AC/DC adapter or User Function Interface)
Voltage	DC3.3V (I/O), DC1.3V (CPU), DC2.5V (PHY)
Consumption	approx. 7W (max) ; not including USB device power
Dimensions	
Dimensions	75mm : Width x 105mm : Depth x 21mm : Height
Mass	approx. 100g
Usage Environment	
Temperature	0 ~ 50
Humidity	20% Rh ~ 90% Rh (non-condensing)
Storage temperature	-10 ~ 60
Storage humidity	20% Rh ~ 90% Rh (non-condensing)

Specification of product may change without notice.



For more information and business inquiries,
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Manufacturer : Meidensha Corporation

Selling Agency : Novatec Corporation

NTNP425C Open Price