

nP3400

24 FE + 2 GE Integrated Network Processor (NPU, TM, Switching, MACs)

General Description

The nP3400 Integrated Network Processor combines a network processor, switch fabric, and on-chip Fast Ethernet and Gigabit Ethernet Media Access Controller (MAC) to implement the complete core functionality of a high-performance packet switch for both line-card and standalone applications. Its programmable architecture enables policy -based Layer 2/3 and Layer 4+ switching.

The nP3400 device can be used in a wide variety of product configurations and networking applications and can form the core of enterprise, workgroup and access switches and router products. A single nP3400 can support 24 SMII Fast Ethernet ports for direct connection to Fast Ethernet PHYs, plus two generic gigabit-speed ports. Each gigabit port can be configured as either a Gigabit Ethernet port (TBI or GMII Mode) or a generic 1.1 Gbps port (RGGI mode) for either multi-chip stacking or interface to a larger chassis switch fabric. Different non-blocking port configurations are possible, and multiple nP3400 devices can be combined to create progressively larger switches. The nP3400 device also adds an on-chip Policy Engine classification and search coprocessor that further enables advanced protocol processing.

Features

- ? 4.6 Gbps full -duplex / 9.2 Gbps aggregate bandwidth integrated network processor, Ethernet MACs, traffic manager, and switch fabric
- ? Multiple non -blocking port configurations:
 - 24 FE + 2 GE
 - 24 FE + 1 GE + 1 RGGI
 - 24 FE + 2 RGGI
- ? 384KB - 12MB of packet buffer memory, shared across all ports
- ? Supports unicast, multicast and broadcast
- ? Supports stream snooping (on any port)
- ? Strict priority and WFQ scheduling
- ? Supports 4 CoS
- ? Embedded Policy Engine classification and search coprocessor
- ? VBGA 560 Package
- ? .18 micron
- ? Commercial & Industrial Temperature Ranges

Applications

- ? LAN Switching
- ? Content/Web Switches, Load Balancers
- ? MPLS Switch Routers
- ? Optical Transport
- ? Subscriber Services
- ? Voice Gateways
- ? Edge Router
- ? Optical Access
- ? Multi Service Switches
- ? Remote Access Servers
- ? Content/Web Switches, Load Balancers

Documents & Related Products

Documents*

There are no related documents at this time

* Additional related documentation is available to approved registered users. You may apply for a [Login Account](#) to request access.

Products

Framer/Mapper

[nPC1140](#)

Network Processor

[nP3450](#)

[nP3454](#)

[nP3404](#)

[nPC2110](#)