

nP3404

2 GE + 2 GE Integrated NPU + Switch Fabric

General Description

The nP3404 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 nP3404 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. The nP3404 offers four 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. The nP3404 device also adds an on-chip Policy Engine classification and search coprocessor that further enables advanced protocol processing.

Features

- ? 4.4 Gbps full -duplex / 8.8 Gbps aggregate bandwidth integrated network processor, Ethernet MACs, traffic manager, and switch fabric
- ? Multiple non -blocking port configurations:
 - 4 GE
 - 3 GE + 1 RGGI
 - 2 GE + 2 RGGI
 - 1 GE + 3 RGGI
 - 4 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
- ? EDHS BGA 596 Package
- ? .18 micron

Applications

- ? LAN Switching
- ? Content/Web Switches, Load Balancers
- ? MPLS Switch Routers
- ? Optical Access
- ? 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](#)

[nPC2110](#)

[nP3400](#)