# GPIF-200 (nP7120)

## Multi-Gigabit Network Processor (2 x Gigabit Ethernet / OC-12)

### General Description

The nP7120 Multi-Gigabit Network Processor (GPIF-207) is a software-programmable engine that provides wire-speed packet processing at Layer 2, 3, 4, and above for two gigabit-speed ports, each of which can support Gigabit Ethernet, OC-12, or other channelized interfaces with an appropriate MAC or Framer. The nP7120 connects gluelessly to AMCC 's nPX5400, nPX5410, nPX5418, and nPX5500 Switch Fabric / Traffic Manager platforms and to AMCC 's nPC1110 GMAC (Gigabit Media Access Controller) or nPC1140 Quad GMAC.

Internally, the device consists of two channels, each serving a Gigabit port. On the line side, the nP7120 provides two GGI interfaces that can be connected to external GMAC devices. On the system side, the nP7120 provides two configurable interfaces that can be used to connect to an AMCC switch fabric via the ViX ™ interface, as internal GGI interfaces to cascade nP7120 devices, or for other in-line processing configurations.

### Features

- ? Generic Gigabit Interface (GGI) Network Processor
- ? Wire -speed Layer 3+ packet processing (3MFps)
- ? On -chip Policy Engine hardware -based search coprocessor
- ? Additional external memory / search coprocessor interface
- ? Two multi -threaded nPcore ™ processors optimized for packet processing
- ? Remote program load through Switch Interface
- ? Supports pipelined SCD, DCD or ZBT SSRAM
- ? On -chip RMON statistics gathering
- ? Synchronous 50 MHz or 52 MHz operation
- ? Integrated PLL Full JTAG Support
- ? BGA 576 Package

### 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
nPC1110

**Traffic Manager**
nPX5700

**Switch Fabric**
nPX5700
nPX5500
nPX5418
nPX5412
nPX8005

**Storage Silicon**
nP7020
nPX8005