Intelligent NIC®
Quick Reference Guide

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Overview

This document provides general information about NetXen Quad-Gigabit and 10-Gigabit Ethernet Intelligent NIC products.

Package Contents

Depending on the product ordered, this package contains one of the following boards:

- NX3-4GBT Quad Port Gigabit Ethernet adapter (copper)
- NX3-20GCU Dual Port Gigabit Ethernet adapter (twinax)
- NX3-20GSR Dual Port SFP+ 10 Gigabit Ethernet adapter (multi-mode fiber)
- NX3-20GLR Dual Port SFP+ 10 Gigabit Ethernet adapter (single-mode fiber)
- NX3-20GLM Dual Port SFP+ 10 Gigabit Ethernet adapter (legacy multi-mode fiber)[1]

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1. Available Q1, 2009

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Handling and Safety

The adapter card contains sensitive electronic components that are susceptible to electro-static discharge (ESD) and must be handled with care. The following steps can be taken to ensure proper operation of the product:

- When transporting the product, it should be kept in an anti-static bag to protect against ESD.
- When inserting or removing the product from the system chassis, the operator should be properly grounded.
- Devices on the product can generate high temperatures during normal operation. Use caution when handling the product.
- For the NX3-20GSR, NX3-20GLR, and NX3-20GLM optical products:
  - Use the dust plugs (provided) to keep the high speed optical fiber connectors free from dust and debris when not in use.
  - Do not use excessive force when connecting or disconnecting the fiber optic cable.
  - When routing the fiber optic cable in the system, never exceed a minimum bend radius of 3".

WARNING: Note that the light emitted by the optical laser is outside the visible spectrum. Looking directly into either the optical cable or the optical port can cause serious eye damage.

Product and Software Installation

For information on installation and configuration, visit http://www.netxen.com/support/downloads/drivers_software.asp to download the following:

- Software
  - Driver and firmware
- Tools
  - Diagnostics and utilities
- Documentation
  - Release notes
  - User's Guide

Getting Help

The User's Guide listed above should provide all of the information required to successfully install and configure the NetXen Intelligent NIC card. If further assistance is required, visit http://www.netxen.com/support/overview.asp for product support.

Cable Specifications (Cable not included)

NX3-20GSR / NX3-20GLR / NX3-20GLM

Parameter	NX3-20GSR		NX3-20GLR		NX3-20GLM		Unit
	50 µm	62.5µm	9 µm	10 µm	50 µm	62.5µm	
Wavelength	850	850	1310	1310	1310	1310	nm
Bandwidth (min)	400	160	n/a	n/a	400	160	MHz
Operating Range (max)	300	33	10K	10K	220	220	m

NX3-4GBT / NX3-20GCU

Product	Cable	Network Type	Cable Length
NX3-4GBT	Cat5	LAN	100 meters
NX3-20GCU	Copper direct attach twinax	LAN	7 meters[1]

1. 10 meters on qualified cables

Optical Fiber Specifications

NX3-20GSR / NX3-20GLM Multi-Mode Fiber (MMF) Types

MMF Optical Fiber Core Diameter	Wavelength (nm)	Bandwidth (MHz)	Distance (meters)
50 µm	850	400	66
	850	500	82
	850	2000	300
	1310	400	100
	1310	500	220
62.5 µm	850	160	26
	850	200	33
	1310	500	220

Certifications

The NetXen Intelligent NIC adapter card conforms to the following agency specifications:

- **FCC** (US)
- **ICES** (Canada)
- **TUV** (Germany)
- **CISPR 22/EN55022** CE (European Union)
- **VCCI** (Japan)
- **BSMI** (Taiwan)
- **MIC** (Korea)
- **C-Tick** (Australia/New Zealand)

NetXen NIC products are **RoHS** compliant[2]

2. Lead materials banned by the RoHS directive are either below applicable thresholds as proposed by the EU, or a pending exemption applies.

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