



## Features

- Cutting Edge **Xilinx® Virtex™-II Pro** FPGA
  - With 2 Independent **IBM PowerPC®** Processors
- **2** Independent banks of  $\leq 256\text{MB}$  **DDR-II**
- **3** Independent banks of  $\leq 72\text{Mb}$  **QDR-II**
- **1** Bank of  $\leq 32\text{MB}$  **MirrorBit™ NOR** Flash
- **1** Bank of  $\leq 512\text{MB}$  **NAND** Flash
- **2** Independent **Multi-rate SFP Optical** Ports
  - Supports **STMI-16\*, OTU-1, 10/100/GbE (Opt/Cu)**
- **2** Independent **10/100/GbE SFP** Ports
  - Supports **10/100/GbE (Opt/Cu) or 1.0-2.5Gb (Opt)**
- **4** High Speed (**1.0-2.5Gb**) **Serial** Links
  - Supports **Card Interconnect or PCI-Express™**
- **2** **RS232** Serial Ports
- **8** **General Purpose/Sync** Ports
- Low Power, **Single 5-12V** Supply
- Very small footprint (**80 x 150 x 20mm**)
  - Support up to **8 Cards in a 1U Enclosure**

\* Also supports **SONET OC3-48**

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## Description

Aliathon's Compact, Configurable, Network Interface Card (**C-NIC™**) delivers incredibly flexible state-of-the-art Technology to support a multitude of Network Applications. Its Programmable Hardware/Software and extremely compact footprint means a highly targeted cost-effective solution to many of your Network challenges. So, if you need the very latest Technology and the flexibility to move with the ever-changing times, take the **C-NIC™** route.

The **C-NIC™** provides two Multi-Rate Optical Interfaces (**TX/RX**) using Small Form-Factor Pluggable (**SFP**) Transceivers. This lets you to choose the Optics best suited to your Application. Choose from the very latest **WDM Multi-Rate** Long Reach Optics, low-cost **OC-3** Short Reach or even Copper **10/100/GbE**. Even if you change your mind, just unplug and replace them! What could be easier?

The **C-NIC™** also provides a highly flexible Hardware/Software Platform that is fully **In-System Reprogrammable**. Add Aliathon's range of highly efficient **IP Cores** and two **IBM PowerPC®** Processors (with RAM/Flash for **RTOS**, e.g. **Linux**, support) and you have an immensely powerful solution for the most demanding Applications. To complete the picture, the **C-NIC™** supports a range of accessibility options (e.g. **10/100/GbE x2, PCI-Express™ x4**) for Remote, Multi-Card and Redundant operation!

All in all, the **C-NIC™** is capable of so much more than its small size suggests!

**C-NIC™** → *One Card... Endless Possibilities...!*