

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *GE Fanuc WANic 3850* at our website: ***Click HERE***

GE Fanuc
Embedded Systems



# WANic™ 3850 Packet Processor

## Intelligent High-performance 4-Port Gigabit Ethernet Packet Processor PCI-X Card

### Features

**Interface Support**

- Supports intelligent high-performance Cavium OCTEON 12 core 500 MHz CN3850-SCP (Secure Communications Processor)
- Up to 4 GB of high-speed DDR2 packet memory via mini-RDIMMs
- 4 front panel access ports of Gigabit Ethernet (GbE)
- Copper or fiber SFP line interface ports
- PCI/PCI-X connector

**PCI-SIG Compliance/Form Factor**

- PCI-SIG PCI-X 64bit/133 MHz 1.0b compliant for control and data plane
- PCI R3.0

**Software Support**

- Support available for:
  - Popular Debian Linux®
  - Embedded boot loader and diagnostics (POST)

**Applications**

- Session Border Controller (SBC)
- Secure Access (e.g. IPsec)
- Network Address Translation (NAT)
- Traffic Management
- Firewall

**Product Reliability**

- Reliability calculated via Telcordia SR-332 Issue 1
- Technical support for OEM customers and resellers

WANic 3850 is an intelligent high-performance Packet Processor based on the high-performance OCTEON multi-core processor. Ideal for applications demanding wire-speed communications for secure IP access, the WANic 3850 card is designed to enable rapid application development using open, modular, highly available systems based on PCI-X platform architectures.

WANic 3850 provides a 12-core Cavium OCTEON multi-core CN3850-SCP Packet Processor with 1MB of shared L2 cache memory, delivering up to 4Gb/s line-speed packet processing for layers 2-7. To optimize application performance, the CN3850-SCP supports a dual-issue, five-stage pipeline and optimized latencies as well as auto instruction pre-fetching and advanced data pre-fetching features to minimize memory delays.

The packet processor card can be configured to enable a wide variety of applications. Up to 4GB of high-speed low-power/low-latency DDR2 memory is implemented using mini-RDIMM modules.

WANic 3850 supports high-speed communications via a 64-bit/133 MHz PCI-X bus interface for PCI-X platforms. It is keyed for 3 volts to ensure safe operation and compatible voltage.

For application flexibility, the WANic 3850 supports multiple front panel configuration options including:

- 4 front panel ports of Gigabit Ethernet supporting IEEE 1000BaseT via Small Form factor Pluggable (SFP) transceivers, or
- 4 front panel ports of Gigabit Ethernet supporting IEEE 1000BaseSX via Small Form factor Pluggable (SFP) transceivers

### Software

The WANic 3850 software implementation is a comprehensive development package designed to improve time-to-revenue for our customers. This software development package is optimized to simplify application integration for multi-core processor development environments.

At its lowest level, the WANic 3850 software includes Universal Boot loader (U-Boot) and comprehensive Power on Self Test (POST) embedded in the hardware.

A Linux Support Package (LSP) and sample application code designed to exercise the WANic 3850 is provided to aid in application development. The LSP includes a Linux Operating System and user application diagnostics. It loads user application code from a TFTP server or Flash memory, and includes a well-defined Application Program Interface (API) to ease application development. Other operating systems are available upon request.

To further improve customer time-to-market, optional software modules such as an IPv4/IPv6 stack, IPSec, QoS management, multicast forwarding, IP filtering, VLAN, L2 tunneling and application programming frameworks will be available from GE Fanuc and/or its partners.

GE FANUC

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

# WANic 3850 Intelligent High-Performance 4-Port Gigabit Ethernet Packet Processor PCI-X Card

## Specifications

**Processor**
- OCTEON CN3850-SCP, 12-core 500 MHz

**Memory**
- Up to 4 GB of DDR2 SDRAM via mini-RDIMMs
- Up to 128 MB flash memory

**Front-Panel**
- 4 x 1 GbE via SFPs
- Status LEDs

**Bus Interconnect**
- PCI/PCI-X

**Network Interface**
- 4 x 1 GbE MAC/PHY

**PCI-SIG Compliance**
- PCI-SIG PCI-X 64-bit 133MHz 1.0b compliant for control and data plane

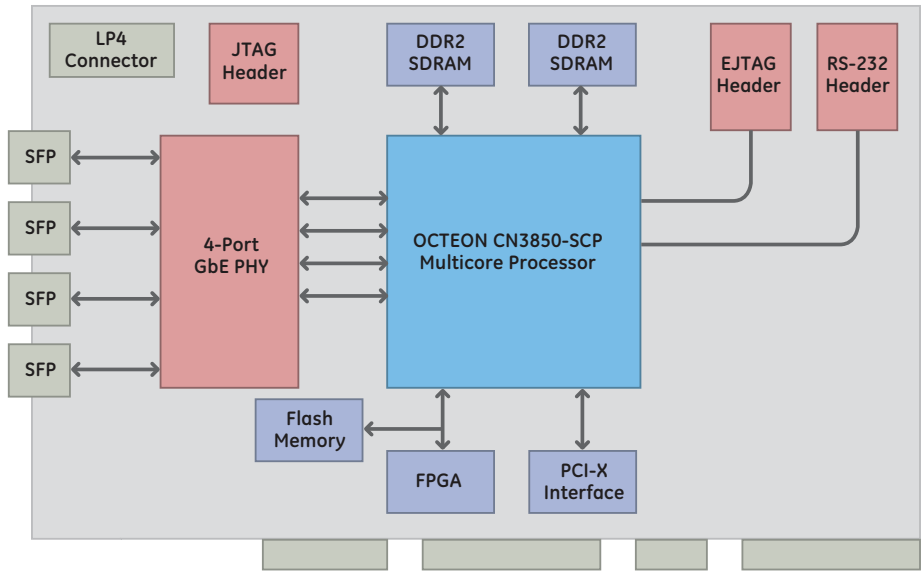
**Dimensions**
- Form factor: PCI R 3.0 dual slot card
- Dimensions: 4.2 inches (H) x 6.6 inches (W)
- Weight: 0.612 lbs. (277.598 g)

**Power Requirements**
- +12.0 VDC and +3.3V DC
- Less than 40 watts

**Environmental**
- Temperature
  - Operating: 0° to +55 °C
  - Storage: -40° to +85 °C
- Relative Humidity
  - Operating: 5% to 95%, noncondensing
  - Storage: 5% to 95%, noncondensing

**Regulatory Compliance**
- CE Mark
- Emissions
  - FCC 47CFR Part 15 Class A (USA)
  - EN55022: 1998/A1:2000/A2:2003 Class A ITE (EU)
  - VCCI Class A ITE (Canada)
  - AS/NZ CISPR 22:2002
  - AS/NZ CISPR 22:2002 Class A (Aus. New Zealand)
  - ICES-003 Issue 3 Class A (Canada)
  - VCCI Class A ITE
- Immunity
  - EN55024:1998/A1:2001/A2:2003 (EU)
- Safety
  - UL60950-1 (USA)
  - CSA 22.1 no. 60950-1-03 (Canada))
  - EN 60950-1 (EU)
- RoHS 2002/95/EC compliant

## Block Diagram




## Ordering Information

| | |
|---|---|
| **84020-101** | WANic 3850-1T with 12-core CN3850-SCP @ 500MHz; 1GB DDR2; twisted pair copper ports (SFPs) |
| **84020-102** | WANic 3850-1SR1 with 12-core CN3850-SCP @ 500MHz; 1GB DDR2; short range fiber ports (SFP) |
| **84020-103** | WANic 3850 Serial Adapter Cable Kit |

Ask your GE Fanuc Embedded Systems sales person for additional models.

## About GE Fanuc Embedded Systems

GE Fanuc Embedded Systems is a leading global provider of embedded computing solutions for a wide range of industries and applications. Our comprehensive product offering includes many types of I/O, single board computers, high performance signal processors, fully integrated, rugged systems including flat panel displays, plus high speed networking and communications products. The company is headquartered in the U.S. and has design, manufacturing and support offices throughout the world. Whether you're looking for one of our standard products or a fully custom solution, GE Fanuc Embedded Systems has the breadth, experience and 24/7 support to deliver what you need. For more information, visit www.gefanucembedded.com.

## GE Fanuc Embedded Systems Information Centers

Americas:
1 800 322 3616 or 1 256 880 0444

Asia Pacific:
+81 3 5544 3973

EMEA:
Germany: +49 821 5034-0
UK: +44 1327 35944

## Additional Resources

For more information, please visit the GE Fanuc Embedded Systems web site at:

www.gefanucembedded.com

©2007 GE Fanuc Embedded Systems, Inc. All rights reserved.
All other brands or names are property of their respective holders.
Specifications are subject to change without notice.

09.07 GFA-984

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP