



CARLO GAVAZZI



CARLO GAVAZZI
COMPUTING SOLUTIONS

- ▼ Founded in 1988 as Aurora Technologies, a third-party developer of products for the Sun Microsystems environment
- ▼ Acquired in 1998 by Carlo Gavazzi Holding Company
- ▼ Renamed the Fabric & Connectivity Division of Carlo Gavazzi Computing Solutions in July 2004
- ▼ Technology Innovators
 - ▼ Developers of cutting-edge connectivity solutions utilizing Switch Fabric technologies, PICMG standards, Solaris, and Linux.
- ▼ Connectivity and Console Management Specialists
 - ▼ System Expansion Solutions
 - ▼ Switch Fabric Products
 - ▼ Console Management Software and Systems
 - ▼ Sync and Async Multiport Serial Controllers and Servers
 - ▼ PCI, CompactPCI, and SBus
 - ▼ Storage Interconnects/Serial ATA Adapters
 - ▼ Synchronous Communications Protocol Software

Carlo Gavazzi Computing Solutions leverage its individual and combined experience, knowledge, and capabilities to meet your system requirements and complete your networking programs

CARLO GAVAZZI COMPUTING SOLUTIONS

Electronic Packaging

Fabric & Connectivity

Embedded Computing

Fulfillment



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- ▼ StarFabric Trade Association – Founding Member
- ▼ PC Industrial Computer Manufacturers Group (PICMG)
- ▼ PCI-SIG
- ▼ iForce Partner Program
 - ▼ Sun ‘SolarisReady’ certification



- ▼ Connectivity Solutions
 - ▼ StarFabric-to-PCI Solutions
 - ▼ PCI Mezzanine Cards (PMC)
 - ▼ Host Interface Cards
 - ▼ PCI System Expansion
 - ▼ PCI Bus Serial Controllers PCI System Expansion
 - ▼ CompactPCI Serial Controllers
 - ▼ SBus Serial Controllers and System Expansion
 - ▼ Storage Interconnects/Serial ATA Adapters
- ▼ Synchronous Communications Protocol Software
 - ▼ HDLC LAPB
 - ▼ X.25
- ▼ Console Management
 - ▼ ControlTower 3.0 and 3.L

INDUSTRY	APPLICATION
Telecommunications	Auxiliary communications equipment for monitoring and managing central office, and customer premises equipment
Financial	Real-time data feeds, e.g. stock reports
Industrial	CNC data feeds Process control & instrumentation data feeds Linking data input terminals from receiving, shop floor, etc.
Point of Sale	Cash register and bar code reader feeds
Internet Service Providers	Modem banking
Office Automation	Sharing of printers, peripherals, and terminals WAN, Internet , and remote access services
Medical	Patient diagnostic systems (MRI, Ultrasound)
Large-Scale Server Environments	Server or console management

Since its inception, the Fabric & Connectivity Division has achieved a unique expertise in high-port count serial connectivity solutions.

- ▼ History of leadership and innovation in CompactPCI, PCI, and SBus serial controllers, servers, and systems expansion
- ▼ Supports SPARC Solaris, Solaris x86, and Linux
- ▼ Scalable – 2 to 128 ports from a single host slot
- ▼ Extends the usability of legacy workstations and servers
- ▼ Dedicated hardware and software support



New Directions for Carlo Gavazzi

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The Fabric & Connectivity Division's aggressive Research and Development Program has expanded the company's product offerings

- ▼ Shipping Switch Fabric (StarFabric-to-PCI) products today
- ▼ Continuing to expand and enhance legacy product offerings
- ▼ Developing integrated products with other divisions of Carlo Gavazzi Computing Solutions

800CP Series **Coming Soon**

- ▼ 6U CompactPCI Controller
- ▼ 8 serial ports
- ▼ 2.0 Mbps sync/256 Kbps
async data transfer rates
- ▼ PICMG 2.0 and PICMG 2.1
compliant
- ▼ Hot swap compliant

XP7-CP3 / XP7-CP6 **Now Available**

- ▼ 3U or 6U CompactPCI Host
Interface Card (HIC)
- ▼ Interfaces with the XP-7 Series
Expansion Chassis
- ▼ Prolongs the life of PCI card
investments
- ▼ Simplifies migration from PCI to
CompactPCI

PCI-X Serial ATA Adapter

Provides Serial ATA Technology Implementers the most advanced, single chip HBA targeted at high performance server and storage markets.

- ▼ Built upon Intel GD31244
- ▼ PCI-X to Serial ATA Controller
- ▼ Serial Flash ROM for PCI Option ROM
 - ▼ Presents Serial ATA Hard Drives as a BOOT Capable Drives
- ▼ PCI-X Bus and Four Independent SATA channels working in Legacy Master/Slave and Native DPA Mode
- ▼ Support for Command Queuing
- ▼ Unique physical form factor for low profile enclosures
- ▼ Interoperability with VSC7175 Port Multiplexer/Port Aggregator
- ▼ Powerful enclosure control and monitoring interface
- ▼ Theoretical transfer rate up to 600MB/sec
- ▼ Windows 2000 and Linux Drivers with Software RAID support
- ▼ Partnership with Proximity Data



The Fabric & Connectivity Division is a leader in developing Switch Fabric products utilizing StarGen Inc.'s StarFabric technology

- ▼ Our suite of StarFabric-based products includes:
 - ▼ XP-SB™ Series System Expansion Chassis
 - ▼ CP-SFX8™ Fabric Card
 - ▼ StarFabric Development Kit
 - ▼ PMC-SB™ StarFabric PCI Mezzanine Card (PMC)
 - ▼ PCI-SB™ StarFabric PCI Interface Card

- ▼ Switch Fabric is revolutionizing I/O interconnect architecture

- ▼ Switch Fabric is an alternative to multidrop parallel bus architecture

CP-SFX8 Fabric Card

- ▼ Eight links to PICMG 2.17 backplane for up to eight node cards
- ▼ 40 Gbps aggregate bandwidth
- ▼ Four RJ-45 connectors for two external connections
- ▼ Low latency design
- ▼ PMC site supports Monarch or Non-Monarch modes

StarFabric Development Kit

- ▼ Aids StarFabric application development and reduces time to market
- ▼ Consists of 9U enclosure and an 8-slot 7U CompactPCI backplane with front & rear I/O
- ▼ Features up to eight links to the backplane and two front panel links with chassis
- ▼ Supports up to four node cards within the chassis

XP-SB Expansion System

- ▼ Two or three PCI expansion slots in 1U rackmount chassis
- ▼ PCI 2.2 compliant
- ▼ Supports 5V signaling environments and universal PCI cards
- ▼ 64-bit/66 MHz (two slot) and 32-bit/33 MHz (three slot) bus speeds

- ▼ **This integrated, multifunction Linux driver features:**
 - ▼ Sync and async TTY devices
 - ▼ CUA call-out device
 - ▼ A sync character driver
 - ▼ Network device driver functionality that emulate Ethernet over sync serial connection

- ▼ **Compatibility with the XP Series of expansion chassis**
 - ▼ Provides 2 to 7 PCI ports from a single host slot

- ▼ **Linux driver supports the following serial controllers from the Fabric & Connectivity Division:**
 - ▼ Apollo 4020P/4022P (PCI, Async)
 - ▼ Aries 8000P and 16000P (PCI, Async)
 - ▼ Saturn 4520P/4522P and 8520P/8522P (PCI, Sync/Async)
 - ▼ Vanguard 4520CP (CompactPCI, Sync/Async)



ControlTower™ Console Management System

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- ▼ Enables a single Linux or SPARC™ server with ControlTower console management software and Aurora serial controllers to function as a common console (monitor and keyboard) for hundreds of managed systems
- ▼ Provides a reliable time and cost saving solution for monitoring and controlling hundreds of Linux and UNIX servers and other serial line console devices from a central location or by remote access
- ▼ Scales from 2 to 128 serial connections from a single Linux or Sun Solaris-based host PCI or SBus slot
- ▼ A software and hardware solution requiring a Linux or Sun Microsystems host



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