LC8200 Series

High Performance Industrial Computer

- ■ Fanless operation

- ■ Intel Celeron-M 800MHz to 1GHz

- ■ Ultra compact - only 2"H x 8"W x 6"D

- ■ Mass storage: Compact flash and/or hard disk drive

- ■ Enclosed in rugged die cast case

- ■ 128MB to 1GB SODIMM RAM

- ■ No internal connecting cables and no internal moving parts for ultimate reliability with CF mass storage

- ■ Large number of available I/O ports: 4 USB 2.0, 4 serial, 1 VGA, 1 Ethernet, 1 PS/2 keyboard/mouse, 1 LPT, speaker out, microphone in, power input

- ■ Multimedia: 1280 x 1024 resolution with 32 bit color, MPEG-2 decoding and video, integrated 128-bit 2D and 64-bit 3D graphics engine, AC97 Audio CODEC

- ■ System boot from CF, HDD, USB, or network

- ■ Power: Wide range of input voltages, 9 to 24VDC, suitable for mobile applications

- ■ Custom configurations available

LOGIC CONTROLS ®

Fanless and Reliable

Industrial computers need to be reliable, as they often are used for mission critical applications and not placed in an office environment. The Logic Controls LC8200 provides unparalleled reliability by being a fanless unit. It is an ideal computer for use in harsh environments with high levels of dust or oil or when fan noise is not desirable. For enhanced reliability, all of the computer components and connectors reside on one PC board. The LC8200's single board computer limits the number of internal cables, a common source of loose connections and failures.   A true no-moving-part operation is provided when compact flash is used for mass storage or boot-from-network configurations are employed.
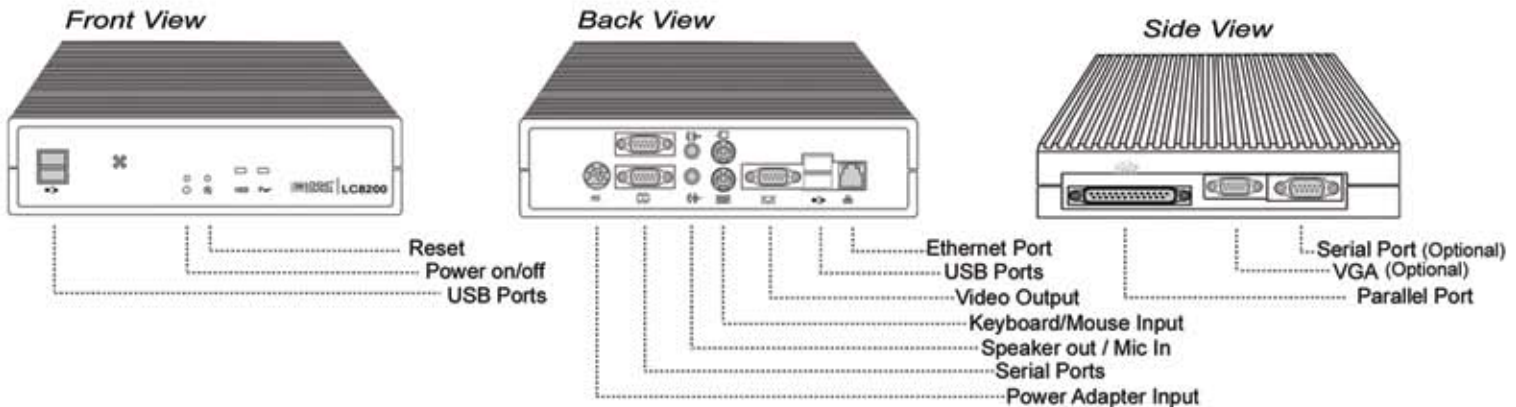
Ultra Compact & Rugged

The LC8200 has a very compact form factor – only 2"H x 8"W x 6"D.   Two mounting brackets enable these modules to be mounted almost anywhere – on a wall, ceiling, table top or under a counter.   For minimum foot-print, the LC8200 can be mounted vertically.   The computer is housed in a rugged die cast case for extra protection.

Full Compliment of I/O Ports

The LC8200 also provides a very impressive compliment of up-to-date and legacy I/O ports.   Up to 4 serial, 4 USB 2.0, 1 VGA, 1 parallel, 1 Ethernet, PS/2 keyboard/mouse, microphone and speaker ports are all available.   Hence industrial applications that require serial or parallel interfaces are fully addressed. The LC8200 also uses Intel high performance processors, so it can run Windows and Linux-based graphics and video applications.   Whether your application runs on Windows XP, Windows XP embedded, Windows 2000, Windows CE or Linux, your operating system needs are supported by the LC8200. This enables the unit to be used in a wide variety of applications – in a restaurant's kitchen system, in a POS workstation, in an auto ID workstation, etc.

LC8200 TECHNICAL SPECIFICATIONS

Connector Assignment

Front View	Back View	Side View

Front View
- Reset
- Power on/off
- USB Ports

Back View
- Ethernet Port
- USB Ports
- Video Output
- Keyboard/Mouse Input
- Speaker out / Mic In
- Serial Ports
- Power Adapter Input

Side View
- Serial Port (Optional)
- VGA (Optional)
- Parallel Port

Industrial Computer - LC8200

SYSTEM

Processor	Intel Celeron-M 800MHz to 1GHz
Memory	128MB to 1.0GB SODIMM
Hard Drive	Internal Compact Flash, 64MB to greater than 4GB
	Optional internal IDE 2.5" hard drive (40GB up)
Video	1920 x 1440 pixels max, 32-bit color, MPEG-2, 128-bit 2D and 64-bit 3D graphics engine, 64MB max shared video memory
Network Interface	10/100 Base-T Ethernet, Network boot capable
Keyboard/Mouse	PS/2
USB Port	4 USB 2.0 ports
Serial Port	COM1, COM2; Optional: COM3 (external side connector), COM4 (internal connector)
Parallel Port	LPT1
Audio	Speaker-out and Mic-in, AC97 Audio CODEC

ELECTRICAL (External Switching Power Adapter - included)

Input	100 to 240VAC
Input frequency	47 to 63 Hz
Input current	< 1.5A @ 120VAC
Output	+12VDC / 5.0A
	LC8200 can accept an input voltage range from 9 to 24VDC
Ripple voltage	< 120mVp-p

MECHANICAL

Weight	3.0lbs
Dimension (inches)	8.0W x 6.3D x 2.0H
Housing	Die cast

ENVIRONMENT

Operating temperature	5°C to 40°C
Relative humidity	8 to 80%, non-condensing
Storage temperature	0°C to 60°C
Relative humidity	5 to 80%, non-condensing

CONNECTORS

VGA	Standard, DB15 male connector
Keyboard & Mouse	PS/2 mini-DIN6 female connectors
RS232	Standard DB9 male connectors
USB	Standard USB type-A connectors
Ethernet	RJ45 8 pin female connector
Audio	Speaker out/Mic in phone jacks
Parallel	Standard, DB25 female connector
DC power	Shielded snap lock mini-DIN with EMI/RFI suppression, 3-pin female connector