

LC8600 Series

High Performance Industrial Computer



- Fanless and ventless operation
- Intel Atom CPU 1.6GHz, 512KB L2 Cache
- Ultra compact - only 2"H x 8"W x 6"D
- No internal connecting cables and no internal moving parts for ultimate reliability with CF mass storage
- Enclosed in rugged die cast case
- 128MB to 2GB DDR2 SODIMM RAM
- Large number of available I/O ports: 7 USB 2.0, 4 serial, 1 VGA, 1 DVI-I, 1 Ethernet, PS/2 keyboard and mouse, 1 LPT, speaker out, microphone in, power input
- Mass storage: Compact flash and/or PATA/SATA hard disk drive
- Multimedia: 2048 x 1536 pixels (QXGA) max, 224MB max shared video memory
- System boot from CF, HDD, USB, or network

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 LC8600 provides unparalleled reliability by being a fanless and ventless 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 LC8600'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

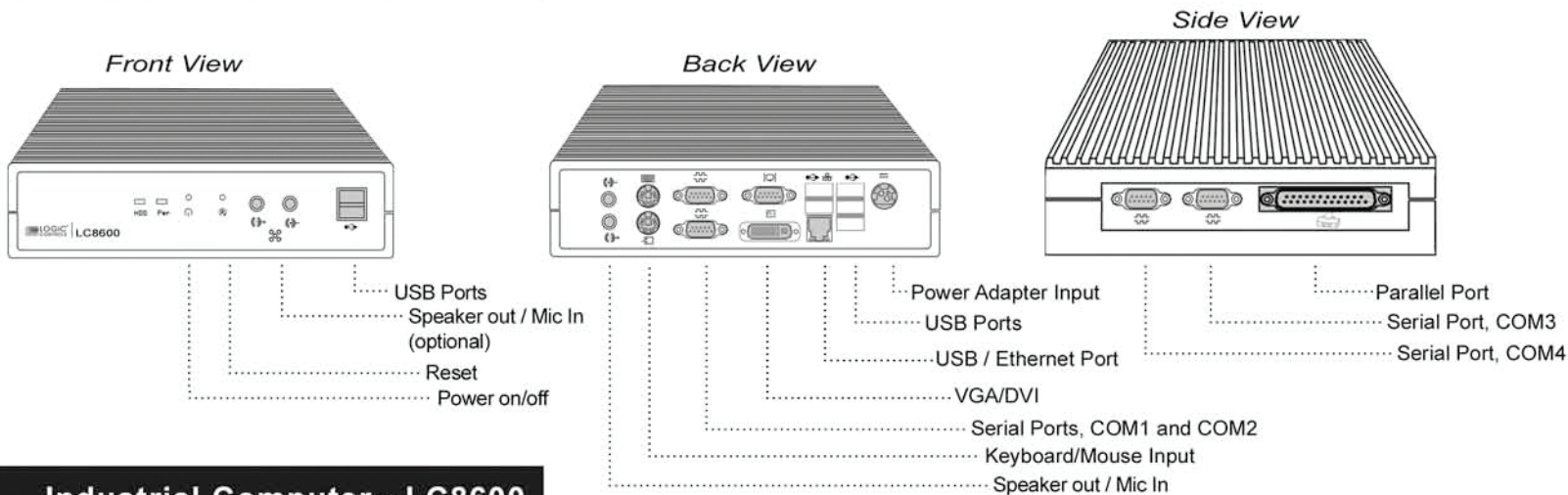
The LC8600 has a very compact form factor – only 2"H x 8"W x 6"D. Two mounting tabs enable these modules to be mounted almost anywhere – on a wall, ceiling, table top or under a counter. For minimum foot-print, the LC8600 can be mounted vertically. The computer is housed in a rugged die cast case for extra protection.

Full Compliment of I/O Ports

The LC8600 provides a very impressive compliment of modern and legacy I/O ports. Up to 4 serial, 7 USB 2.0, 1 VGA, 1 DVI-I, 1 parallel, 1 Ethernet, PS/2 keyboard and mouse, microphone and speaker ports are all available. Hence industrial applications that require serial or parallel interfaces are fully addressed. The LC8600 also uses Intel high performance processors, so it can run all Windows and Linux-based graphics and video applications. Whether your application runs on Windows Vista, Windows XP, Windows XP embedded, Windows 2000, Windows CE or Linux, your operating system needs are supported by the LC8600. 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.

LC8600 TECHNICAL SPECIFICATIONS

Connector Assignment



Industrial Computer - LC8600

SYSTEM

Processor	Intel Atom Processor N270 1.6GHz, 533MHz FSB, 512KB 8-way L2 Cache
Memory	128MB to 2.0GB DDR2 400/533 SODIMM
Hard Drive	Internal Compact Flash, 64 MB to greater than 32GB Optional internal IDE 2.5" PATA or SATA hard drive (40GB up)
Primary Video (DB15)	2048 x 1536 pixels (QXGA) max, 224MB max shared video memory
Secondary Video (DVI-I)	Optional, 1600 x 1200 pixels (UXGA) max
Network Interface	10/100 Base-T Ethernet, Network boot capable
Keyboard/Mouse	PS/2
USB Port	7 USB 2.0 ports
Serial Port	COM1 and COM2, optional COM3 and COM4 (side connector) optional +5V / +12V power at pin 9
Parallel Port	LPT1
Audio	Speaker-out and Mic-in, AC97 Audio CODEC (optional front connectors)
Expansion slot	Mini-PCIE socket

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
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

Video	DB15 and DVI-I connectors
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