

DATASHEET

In-Rack PC with Data Historian PC56-HIST-xxxxLX

The in-rack PC with Data Historian is an industrial PC for the ControlLogix platform that provides high speed, time series, data storage and retrieval with both local and remote ControlLogix processors. The in-rack PC with Data Historian allows customers to perform data collection in an efficient, distributed, and cost-effective fashion. In addition, the in-rack PC with Data Historian is the ideal solution for those customers who want to implement an electronic data storage solution while maintaining compliance with FDA Regulation 21 CFR Part 11.



Features	Benefits
High Speed Real-Time Data Collection	<ul style="list-style-type: none"> Communicates directly with the ControlLogix processor across the backplane for the fastest data collection speeds available No network connection required
Electronic Documentation	<ul style="list-style-type: none"> Provides an audit trail and data flags for tracking modified, inserted, or incomplete data Process validation and compliance reporting Provides key features to meet the strict 21 CFR Part 11 Standard for FDA-regulated industries
Embedded Component Historian Object (ECHO)	<ul style="list-style-type: none"> Locally stored data reduces the risk of data loss due to interrupted network communications Local or remote database using interfaces such as OPC, OLE DB, ADO and ECHO API
Point-and-Click Integration	<ul style="list-style-type: none"> Can be added to new or existing ControlLogix PLCs and PACs without changing the control application
Built-in Operational Intelligence	<ul style="list-style-type: none"> Provides for predictive maintenance, machine optimization, remote diagnostics, and other value-added services Ability to read tags from networked processors No network connection required for local processors Multiple tag count ECHO licenses available

Historian Configurator

This application provides a Graphical User Interface (GUI) to map tags defined in a local or remote processor to a data historian file. The Configurator defines the data type, scan rate, and throw-away limit for a particular data stream. Use the Configurator to create new data files and define the "Fill-up Strategy" for the file.

Historian

The PC56-HIST consists of

- A PC56 industrial PC for the ControlLogix platform
- Historian Configurator
- Historian Scheduler/Server
- Embedded Component Historian Object (ECHO)

The PC56-HIST uses licensed software technology from OS/soft to deliver an integrated data historian. The PC56-HIST can log up to 5000 tags of real-time data at sub-second speed accessible using OS/soft's PI product. This is dependent on the module that is chosen:

PC56-HIST-500LX	500 Tags
PC56-HIST-1500LX	1500 Tags
PC56-HIST-3000LX	3000 Tags
PC56-HIST-5000LX	5000 Tags

Additionally, 5 tags of data can be accessed via an OPC HDA server. This historical data is ideal for sequence-of-event recording, process optimization and compliance reporting (FDA, EPA, and so on).

Historian Scheduler/Server

The Historian Scheduler/Server reads a configuration file and performs real-time scanning of the ControlLogix controller tags, then sends the tag values to the mapped ECHO data streams.

Functional Specifications

- Embedded Pentium MMX CPU
 - 3 Position User Definable Switch
 - Operating Temp. 60 °C
 - Front Panel Accessible Reset Switch
 - 4 character alphanumeric Front Panel Status Display
 - 3 Status LEDs
 - Rechargeable Battery
 - Type II Compact Flash Socket
 - Stacking PCI Expansion Bus
 - VGA, USB and Ethernet Ports
- Run typical PC-based applications such as data storage
- Space saving industrial hardware
- Open flexibility to work with or without the ControlLogix / MicroLogix processor
- Built in compact flash or microdrive connection

Included with System:

- Windows XP Professional
- 80GB IDE Hard Drive



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Hardware Specifications

Specification	Description
CPU Processor	Embedded 500 MHz Processor
Memory	512 MB SDRAM System Memory, upgradeable to 1 GB 512 KB SRAM (Battery Backed)
Compact Flash	Compact Flash Type I or II socket
Ethernet Ports (2)	10/100T IEEE 802.3 Ethernet 1500 V rms at 50 Hz to 60 Hz for 60 s, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency = less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
Serial Port (1)	Isolated Serial RS-232 / RS-422 / RS-485
USB Port	Two USB 2.0 / 1.1 High Speed Host
Connectors	VGA, 2 Ethernet, 2 USB
Battery	Rechargeable Lithium Vanadium Pentoxide
Jumpers	COM 1 Mode Selection Battery Enable/Clear CMOS Boot to SAFE STATE (default settings) Hardware Debugger Support
Switches	Recessed Reset Switch
LED/Display	4-digit alphanumeric status display 3 Status LEDs Red, Green, Off
Real-Time Clock	Precision RTC accurate to +/- 4 minutes per year
Timers	82C54 Timer Clock 14 MHz - Interrupt Interval 1.67619 US
Video	VGA 1920 x 1440 1280 x 1024 256 1024 x 768 56K 800 x 600 16 M 43 Hz Interlaced 56 through 85 Hz Refresh Rates

Agency Approvals and Certifications

CE	EMC-EN61326-1:2006; EN61000-6-4:2007
CSA	C22.2 No. 213-1987
CSA CB Certified	IEC61010
ATEX	EN60079-0 Category 3, Zone 2 EN60079-15



Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

In-Rack PC with Data Historian

PC56-HIST-500LX
PC56-HIST-1500LX
PC56-HIST-3000LX
PC56-HIST-5000LX

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