



In-Rack PC with Data Historian

PC56-HIST

The PC56-HIST 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 PC56-Historian allows customers to perform data collection in an efficient, distributed, and cost-effective fashion. In addition, the PC56-HIST 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 and Benefits

- No software development required
- Communicates with the ControlLogix processor directly through the ControlBus backplane, which simplifies installation and improves performance
- No modifications to the ControlLogix processor program are necessary
- Supports multiple ControlLogix processors
- Supports both local (same rack as PC56-HIST) and remote (via 1756-ENET or 1756-CNET modules) processors
- Includes configuration tools for online or offline configuration. Tag scan rates can be individually configured for optimal performance

General Specifications

- High-speed real-time data collection: Communicates directly with the ControlLogix processor across the backplane for the fastest data collection speeds available.
- An ideal solution for electronic documentation: Provides an audit trail and data flags for tracking modified, inserted, or incomplete data. Process validation and compliance reporting is a snap. Provides key features to meet the strict 21 CFR Part 11 Standard for FDA-regulated industries.
- Locally stored data: Locally stored data reduces the risk of data loss due to interrupted network communications
- Remote access: Local or remote database using interfaces such as OPC, OLE DB, ADO and ECHO API
- Plug and Play: Can be added to new or existing ControlLogix PLCs without changing the control application

In-Rack PC with Data Historian PC56-HIST

The PC56 Data Historian allows you to archive data from the ControlLogix processor to an Archive Engine (ECHO) located on the PC56-HIST. Multiple ControlLogix processors may be accessed, either in the local rack or in remote racks connected via Ethernet or ControlNet.

How to Contact Us: Sales and Support

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- Built-in operational intelligence: 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

Functional Specifications

The PC56 Historian consists of:

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

Included with System:

- Windows XP Professional
- 40GB IDE Hard Drive

Historian

The PC56-HIST uses licensed software technology from OSIsoft to deliver an integrated data historian. The PC56-HIST can log up to 500 tags of real-time data at sub-second speed accessible using OSIsoft's PI product. 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, etc.)

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 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.

Embedded Component Historian Object (ECHO)

The Embedded Historian object provides actual data storage functionality. The ECHO database has several open interfaces:

- OPC
- OLE DB
- ADO
- ECHO API

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 Port	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	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 1 User LED 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

Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

Ordering Information

To order this product, please use the following:

PC56-HIST-500	PC56 Data Historian - 500 Tags
PC56-HIST-1500*	PC56 Data Historian - 1500 Tags <i>Product in Final Sales Period!</i>
PC56-HIST-3000	PC56 Data Historian - 3000 Tags
PC56-HIST-5000	PC56 Data Historian - 5000 Tags

Notes:

1. The PC56-HIST-1500 is in a Final Sales Period of two years effective October 14, 2008 until October 14, 2010. Thereafter, the product will be supported until October 14, 2014. The recommended product replacement is the PC56-HIST-3000.

For more information on the Product Retirement Program, please visit: http://www.prosoft-technology.com/products/product_retirement_program

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