

Data Historian Hardware Options



GE Provided Hardware

GE Power Conversion's Data Historian can be deployed on an industrialised Emerson RXi 142 controller featuring a slim chassis for easy mounting and a premium Intel processor for reliable data collection and storage.

Power Conversion's Data Historian can also be provided in a secure wall mounted cabinet with inbuilt touchscreen.



Hardware specifications

- 24vdc power supply
- Intel i3 premium processor
- 256GB SSD
- Dual ethernet network support
- Option to be cabinet based with touchscreen
- Display port video output

The data historian software is included by default in the Visor Connect Box (VCB) product.

Customer provided hardware support

GE Power Conversion's data historian is deployed as a Windows image for a simple installation and supports a number of 3rd party hardware platforms, offering the same powerful historian with embedded OPC-UA server.

Installation instructions:

When installing the data historian software, the GE image installs the whole historian configuration in two steps:

1. Installation of the historian image supplying required information and Windows OS
2. After installation, a download from GE's software suite P80-Pilot loads the contract specific configuration.

The machine should not be used for any other purpose other than as the GE data historian.

Details on Windows 10 IOT supported hardware can be found on Microsoft's website here:

<https://docs.microsoft.com/en-us/windows-hardware/design/minimum/minimum-hardware-requirements-overview>

Please see overleaf for hardware requirements.

Customer provided hardware requirements

- Must support Windows 10 IOT (hardware must be released after Windows 10 IOT and specifically state support for this generation of Windows)
- Minimum 256GB SSD or HDD
- Minimum 8GB RAM >= 100Mb

*Note – To utilise the OPC-UA server within the GE historian, Windows firewall port 48010 must be opened

Processor requirements:

- The machine must use an Intel 9th generation processor or older (Core i3/ i5/ i7-9xxx).
- 10th generation (Core i3/i5/i7-10xxx), 11th generation (Core i3/i5/i7-11xxx) and 12th generation (Core i5/i7-12xxx) are not supported.

Network Interface Card (NIC) requirements:

The machine must have a second network card installed as during installation the GE image checks for a known set of network interface cards and will set the parameters of these cards to optimise them for a GE control network. The motherboard port cannot be used as the GE image does not name the motherboard port and therefore will not automatically set the IP of that port as per the image installation, therefore a second network card is required.

Approved network interface cards:

- Intel(R) PRO/1000 XT network connection
- Intel(R) PRO/1000 GT desktop adapter
- Intel(R) PRO/1000 PT desktop adapter
- Intel(R) PRO/1000 PT server adapter
- Intel(R) Gigabit CT desktop adapter
- Intel(R) PRO/1000 MT network connection
- Broadcom NetXtreme gigabit ethernet for HP
- Intel(R) 82567LM-3 gigabit network connection
- Intel(R) 82579LM gigabit network connection
- Intel(R) I210 gigabit network connection
- Intel(R) 82566DM-2 gigabit network connection
- Intel(R) 82566DM gigabit network connection
- Intel(R) 82574L gigabit network connection
- Realtek RTL8168C(P)/8111C(P) PCI-E gigabit ethernet NIC
- Realtek PCIe GBE family controller
- Broadcom NetXtreme gigabit ethernet
- Intel(R) ethernet connection I219-LM
- Intel(R) ethernet connection I217-LM
- Intel(R) ethernet I210-T1 GbE NIC

Conceived for Operators

GE Power Conversion's Digital Suite is built on GE's industry wide expertise in IT, OT (operating technology) and IIoT (the industrial internet of things). Above all we believe it should be intuitive, visual and customized for your operational needs. Featuring simple, clear interfaces it provides organizations of all sizes with access to GE's powerful data analytics, made accessible and usable by providing better intel and situational awareness. Genuine performance improvements are within reach, to help your organization work with increased efficiency and profitability.

To find out more:
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