



# daqPC

## Data Recording, Playback and Network System

### Features

- Sustained recording & playback rates of over 600 MBytes/sec
- PC-based real-time acquisition
- Configurable for applications from sonar to cellular
- Supports DSP options
- Rackmount and portable versions
- Playback of recorded data with analog output option
- Built-in 1 Gbit network interface
- NTFS file system for easy post processing of recorded data

The daqPC is a PC-based real-time data recording and playback system which can be fully configured to offer a powerful sensor processing solution, tailored to the most demanding of user DSP requirements. Capable of accepting both GE Fanuc intelligent Platforms and third-party boards, the daqPC can be fully integrated for real-time applications that require recording, playback and processing of large volumes of signal data.

The daqPC is fully interoperable with a wide range of GE Fanuc analog I/O products, providing a full complement of high channel count and/or high bandwidth system solutions. The 600 MBytes/sec recording and playback solution is offered in a 4U rackmountable chassis providing up to 16 Terabytes of data storage capability. Additional storage is available by using an expansion chassis. The daqPC can support time-stamping, BIT, and other common or custom system requirements.

To put this impressive performance in perspective, up to 1500 channels of data – each digitized with 16-bit ADC and sampled at a rate of 200 kHz/ch – can be recorded in real-time. For radio and radar signals, three signals with a 40 MHz flat-top bandwidth can be recorded or played back.

The daqPC is the only high data rate recorder with playback functionality available that operates natively under the Windows® operating system. Not only is it as easy to use as your desktop PC, it also provides NTFS formatted data files which don't require conversion prior to use and are immediately available to share over any connected network. The daqPC is built from commonly available high end server components, which avoids the obsolescence fears of customized hardware.



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## Specifications

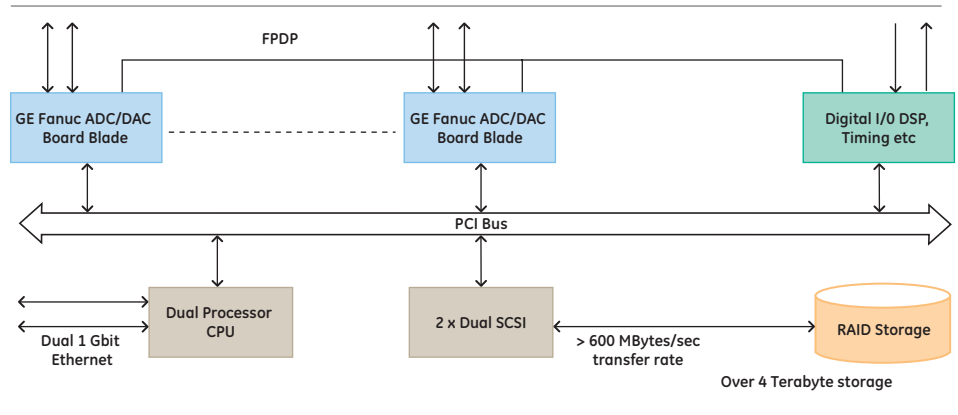
### I/O specifications

- PC-based real-time data acquisition, processing, archiving and playback
  - 600 MBytes/sec sustained recording rate
- 1 Gbit network interface
- Real-time recording at
  - 1500 channels @ 200 kHz/ch. with 16-bit precision
  - 3 channels @ 100 MHz/ch. with 16-bit precision
- 16 Terabytes RAID storage
- LabVIEW or MATLAB signal analysis
- USB 2.0 compliant
- NTFS file system for easy post processing
- Customized to user requirements, including FPGA based data pre-processing

### General Specifications

- Office benign ruggedization level
- 5 to +35 °C operating temperature
- -40 to +85 °C storage temperature

## Block Diagram



## Ordering Info

### daqPC-XXX/YYY

XXX – number of installed product

YYY – custom identifier

## About GE Fanuc Intelligent Platforms

GE Fanuc Intelligent Platforms is a leading global provider of embedded computing solutions for a wide range of industries and applications. Our comprehensive product offering includes many types of I/O, single board computers, high performance signal processors, fully integrated, rugged systems including flat panel displays, plus high speed networking and communications products. The company is headquartered in the U.S. and has design, manufacturing and support offices throughout the world. Whether you're looking for one of our standard products or a fully custom solution, GE Fanuc Intelligent Platforms has the breadth, experience and 24/7 support to deliver what you need. For more information, visit [www.gefanuc.com](http://www.gefanuc.com).

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## Additional Resources

For more information, please visit the GE Fanuc Intelligent Platforms web site at:

[www.gefanuc.com](http://www.gefanuc.com)

