



PET-7H16M: High Speed Ethernet Data Acquisition

ICP DAS USA's new PET-7H16M is a high speed data acquisition module with a built-in Ethernet communication port for network data transfer. It includes 8 high speed analog input channels with a FIFO of 2048 samples and a maximum sampling rate of up to 200 kS/s, with 16-bit analog to digital (A/D) converters simultaneously sampling on each channel. In addition to the Analog input channels, each module provides 4 digital input and 4 digital output channels.



The module provides a programmable input range on all analog Input channels, and the Digital Output can be set to output with short-circuit and overload protection. The PET-7H16M series also provides 4 kV ESD protection as well as 2500 VDC intra-module isolation.

PET-7H16M supports three different trigger modes for A/D conversion: a software trigger, an external clock trigger, and an external digital signal event trigger (Post-trigger/Pre-trigger). The software trigger can acquire a sample whenever needed, and the continuous A/D acquisition, or the acquisition of N data samples, begins after the command is triggered. In external clock trigger mode, the speed of the A/D acquisition and the amount of data acquired are controlled by external electrical signals. In digital signal event trigger mode, the A/D acquisition parameters are configured by user commands and the A/D acquisition of the N data samples is triggered by an external electrical signal.

Ethernet offers distinct advantages over other data transmission mediums. Ethernet is a reliable, easy-to-install platform with a long transmission distance and fast transmission speed. Not only is Ethernet ubiquitous in enterprise IT, but it is also becoming a mainstream specification for industrial communication.

Most high-speed synchronous data capture systems use a capture card on a computer host to collect data. As projects expand, and the required number of channels increases, especially if data acquisition devices are distributed across multiple sites, the number of computer hosts increases— making the data network more complex than it needs to be.



Cage/NCage Code: 3FNFO

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Making Data Acquisition Easy

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PET-7H16M is here to simplify that system and replace the computer and capture card. The data collected from different sites is all fed into in a central location, reducing labor time, costs, and extraneous wiring, while providing real-time systems monitoring.

The PET-7H16M can be used for continuous data acquisition, high-speed interval acquisition, and simultaneous acquisition from multiple channels. With a maximum acquisition speed of 200 kHz for each AI channel. It is suitable for high-speed data acquisition of various mechanical, electronic and physical signals in industrial production, automatic control, electrochemistry, medicine, and more.

Want to learn more? Visit our website www.icpdas-usa.com or give us a call at 1-310-517-9888. You can also reach us through email at sales@icpdas-usa.com. We are available from 8:00 a.m. to 5:00 p.m. PST.