

# 1. JY-5325 Specifications

## 1.1 Overview



JY-5325 is a high-performance, multifunctional synchronous analog output and input data acquisition module designed for complex test and measurement applications. It includes 8 synchronous analog acquisitions, with a sampling rate of up to 5 MS/s per channel, and 8 synchronous analog outputs, with an output rate of up to 1 MS/s per channel. Additionally, the JY-5325 is equipped with 8 high-speed digital I/O or 2 counter/timer, providing users with more functional options and flexibility. The high resolution of 16 bits ensures the accuracy of data acquisition and output. This module is suitable for multi-channel synchronous output and acquisition testing in fields such as production testing, ultrasonic and sonar testing, and big physics.

🔗 Please download JYTEK <JYPEDIA>, you can quickly inquire the product prices, the key features and available accessories.

## 1.2 Main Features

- **Analog Input**
  - High accuracy: 280 ppm
  - 8 differential 16 bits analog input channels
  - 5 MS/s sampling rate per channel
  - 4 voltage ranges:  $\pm 1V/\pm 2V/\pm 5V/\pm 10V$
  - 256M samples FIFO buffer for analog input
- **Analog Output**
  - 8 single-ended 16-bit analog output channels
  - 1 MS/s update rate per channel
  - Voltage range:  $\pm 10V$
- **DIO Features**
  - 8 hardware timed digital I/O
  - Maximum clock frequency of 10 MHz
- **Counter Features**
  - Each DIO channel can be controlled
  - 2 channels of 32-bit general-purpose timers/counters
  - Internal clock frequency of 100 MHz
  - Edge counting/frequency measurement/period measurement/pulse measurement/dual-edge separation
  - Quadrature (x1/x2/x4) encoder, dual pulse encoder
  - Single pulse, limited pulse, continuous pulse
  - PWM output

## 1.3 Hardware Specifications

### 1.3.1 Analog Input Specifications

| Analog Input                                | JY-5325   |
|---|---|
| Number of Channels                          | 8   |
| Input modes                                 | Differential  |
| ADC Resolution                              | 16 bits   |
| Sampling Rate                               | 5 MS/s/ch   |
| Coupling                                    | DC  |
| Input Ranges                                | $\pm 1$ V, $\pm 2$ V, $\pm 5$ V, $\pm 10$ V               |
| Max working voltage                         | $\pm 10.83$ V(To AIGND)                                   |
| Input Impedance                             | 5.3 G $\Omega$    0.5 pF                                  |
| Crosstalk( at 100kHz)                       | Adjacent channel: -90 dB;<br>Non-adjacent channel: -105dB |
| Overvoltage protection                      | ON: $\pm 25$ V ; OFF: $\pm 15$ V                          |
| Input current during overvoltage protection | $\pm 20$ mA   |
| CMRR (DC to 50Hz)                           | -105 dB   |
| Bandwidth                                   | 2.2 MHz   |
| THD   | -80 dB  |

Table 1 Analog Input Specifications

### 1.3.2 Basic DC AI Accuracy

| JY-5325 Basic Accuracy = $\pm$ (% Reading+% Range) |                                    |         |                                    |         |                           |                             |  |
|--|------------------------------------|---------|------------------------------------|---------|---------------------------|-----------------------------|--|
| Nominal Range (V)                                  | 24 Hour Tcal $\pm 1^\circ\text{C}$ |         | 90 Days Tcal $\pm 5^\circ\text{C}$ |         | 24 Hr Full Scale Accuracy | 90 Days Full Scale Accuracy |  |
| 1  | 0.002                              | + 0.013 | 0.004                              | + 0.033 | 140 $\mu\text{V}$         | 350 $\mu\text{V}$           |  |
| 2  | 0.002                              | + 0.011 | 0.004                              | + 0.028 | 240 $\mu\text{V}$         | 600 $\mu\text{V}$           |  |
| 5  | 0.003                              | + 0.011 | 0.008                              | + 0.028 | 650 $\mu\text{V}$         | 1700 $\mu\text{V}$          |  |
| 10   | 0.002                              | + 0.009 | 0.005                              | + 0.023 | 1100 $\mu\text{V}$        | 2800 $\mu\text{V}$          |  |

Table 2 Basic DC AI Accuracy

### 1.3.3 Dynamic Performance

#### AI-Bandwidth

| Range (V) | -3 dB Bandwidth (MHz) |
|-----------|-----------------------|
| ±1 V      | 1.6                   |
| ±2 V      | 2                     |
| ±5 V      | 2.1                   |
| ±10V      | 2.2                   |

Table 3 AI-Bandwidth

#### System Noise

| Range(V) | Noise ( $\mu$ Vrms) |
|----------|---------------------|
| ±1 V     | 29                  |
| ±2 V     | 43                  |
| ±5V      | 86                  |
| ±10V     | 167                 |

Table 4 System Noise

#### CMRR (dB at 50/60 Hz)

| Range(V) | CMRR (dB at 50/60 Hz) |
|----------|-----------------------|
| ±1 V     | 110                   |
| ±2 V     | 110                   |
| ±5V      | 105                   |
| ±10V     | 100                   |

Table 5 CMRR (dB at 50/60 Hz)

**Crosstalk (dB at 100 kHz)**

| Type                 | Range(V) | Crosstalk (dB at 100 kHz) |
|----------------------|----------|---------------------------|
| Adjacent channel     | ±1 V     | -100                      |
|                      | ±2 V     | -105                      |
|                      | ±5V      | -110                      |
|                      | ±10V     | -120                      |
| Non-adjacent channel | ±1 V     | -100                      |
|                      | ±2 V     | -106                      |
|                      | ±5V      | -114                      |
|                      | ±10V     | -120                      |

Table 6 Crosstalk (dB at 100 kHz)

### 1.3.4 Analog Output Specifications

| Analog Output                     | JY-5325                               |
|-----------------------------------|---------------------------------------|
| Number of channels                | 8                                     |
| Output type                       | RSE                                   |
| Resolution                        | 16 bits                               |
| Maximum update rate(2 ch)         | 2 MS/s                                |
| Maximum update rate(8 ch)         | 1 MS/s                                |
| Output range                      | ±10 V                                 |
| Output coupling                   | DC                                    |
| Output impedance                  | 0.2 Ω                                 |
| Output current drive              | ±10 mA                                |
| Overdrive protection              | Power on : ±15 V<br>Power off : ±10 V |
| Overdrive current                 | 15mA                                  |
| Power-on state                    | 0 V                                   |
| Power-on/off glitch               | 2.5V peak for 100ms                   |
| Data transfers                    | DMA                                   |
| Slew rate                         | 20 V/μs                               |
| Noise                             | 400 μVrms, DC to 1 MHz                |
| Nominal Range Positive Full Scale | 10 V                                  |
| Nominal Range Negative Full Scale | -10 V                                 |

Table 7 Analog Output Specifications

### 1.3.5 Basic DC AO Accuracy

| JY-5325 Basic Accuracy = $\pm(\% \text{ Reading} + \% \text{ Range})$ |                                    |   |       |                                    |   |      |                           |                             |
|---|------------------------------------|---|-------|------------------------------------|---|------|---------------------------|-----------------------------|
| Nominal Range (V)   | 24 Hour Tcal $\pm 1^\circ\text{C}$ |   |       | 90 Days Tcal $\pm 5^\circ\text{C}$ |   |      | 24 Hr Full Scale Accuracy | 90 Days Full Scale Accuracy |
| 10  | 0.002                              | + | 0.004 | 0.005                              | + | 0.01 | 510 $\mu\text{V}$         | 1300 $\mu\text{V}$          |

Table 8 Basic DC AO Accuracy

### 1.3.6 Digital I/O Specifications

| DIO                      | JY-5325   |
|--------------------------|---|
| Number of channels       | Line<0..7>  |
| Ground reference         | D GND   |
| Directional control      | Independent control of each line  |
| DO FIFO                  | 24M samples   |
| DI FIFO                  | 24M samples   |
| DI max sample clock rate | 10 MHz  |
| DO max update clock rate | 10 MHz  |
| Initial state            | Input   |
| Digital Input            | Logic Low: $V_{IL}$ Min : 0 V / Max : 1.0 V<br>Logic High: $V_{IH}$ Min : 2 V / Max : 5.3 V   |
| Digital Output           | Logic Low : 0 V, $I_{OL}$ Max: 24 mA<br>Logic High : 2.6 V ~ 5 V, $I_{OH}$ : -24 mA ~ 0 mA  |
| Overvoltage Protection   | Continuous 30 mA -3.9 V ~ 8.9 V;<br>Instantaneous 200 mA -25 V ~ 25 V;<br>Duty cycle of instantaneous current pulse does not exceed 15% |

Table 9 Digital I/O Specifications

### 1.3.7 PFI Specifications

| PFI                | JY-5325 |
|--------------------|---------|
| Number of channels | 8 PFI   |
| Ground Reference   | DGND    |
| Initial state      | Input   |

Table 10 PFI Specifications

### 1.3.8 Counter I/O Specifications

| Counter I/O        | JY-5325  |
|--------------------|--|
| Number of channels | 2  |
| Resolution         | 32   |
| CI                 | edge count, period measurement, frequency measurement, pulse width measurement, two-edge interval measurement, orthogonal coding, etc. |
| CO                 | Single, finite and continuous pulse  |
| Clock              | 100 MHz  |
| FIFO               | 4M Samples   |
| Input              | Gate, Source, Aux  |
| Output             | OUT  |

Table 11 Counter I/O Specifications

### 1.3.9 Power Specification

#### Power Requirement

|       |       |
|-------|-------|
| +12V  | 1.82A |
| +3.3V | 2.48A |

Table 12 Power Requirement

### 1.3.10 Physical and Environment

#### PXIe bus interface

|                    |                 |
|--------------------|-----------------|
| Form factor        | Standard 3U PXI |
| Slot compatibility | x1 and x4       |
| DMA channel        | AI, AO, DI, DO  |

Table 13 PXIe bus interface

#### Operating Environment

|                   |                           |
|-------------------|---------------------------|
| Temperature Range | 0 to 55 degree of Celcius |
| Humidity          | 10% to 90%                |

Table 14 Operating Environment

#### Storage Environment

|                   |                             |
|-------------------|-----------------------------|
| Temperature Range | -40 to 71 degree of Celcius |
| Humidity          | 5% to 95%                   |

Table 15 Storage Environment



## 2. Order Information

- PXIe-5325 (PN: JY8134536-01)  
8-ch AI (16-bit, 5 MS/s/ch) 8-ch AO (16-bit, 1 MS/s/ch) , 8 DIO, PXIe Simultaneous sampling Multifunction I/O Module
- Accessories  
TB-53 (PN: JY1368485-01) 68-Pin SCSI with BNC Terminal Block for JY-5300 Series  
TB-68 (PN: JY2000068-04) 68-Pin SCSI Shielded I/O Connector Block  
ACL-1016868-1 (PN: JY7996916-01) 1 M 68pin VHDC-SCSI twisted pair cable  
ACL-1016868-2 (PN: JY7996916-02) 2 M 68pin VHDCI-SCSI twisted pair cable

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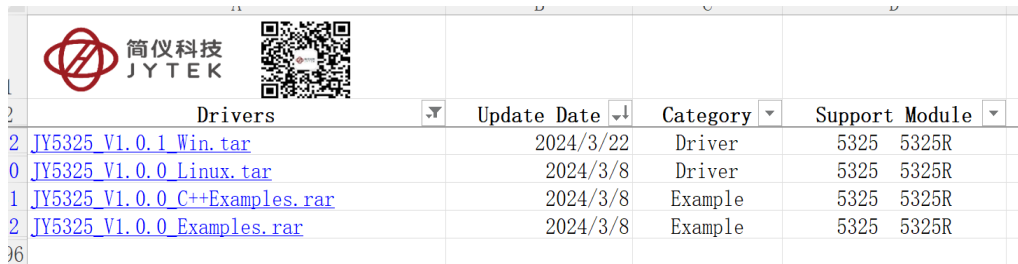
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### 3. Introduction

This chapter presents the information how to use this manual and how to quick start if you are already familiar with Microsoft Visual Studio and C# programming language.

#### 3.1 Learn by Example

JYTEK has added **Learn by Example** in this manual. We provide many sample programs for this device. Please download the sample programs for this device. You can download a [JYPEDIA](#) excel file from our web [www.jytek.com](http://www.jytek.com). Open JYPEDIA and search for JY-5325 in the driver sheet, select **JY-5325 Examples.zip**. In addition to the download information, JYPEDIA also has a lot of other valuable information, JYTEK highly recommend you use this file to obtain information from JYTEK.



| Drivers                                       | Update Date | Category | Support Module |
|---|-------------|----------|----------------|
| <a href="#">JY5325_V1.0.1_Win.tar</a>         | 2024/3/22   | Driver   | 5325 5325R     |
| <a href="#">JY5325_V1.0.0_Linux.tar</a>       | 2024/3/8    | Driver   | 5325 5325R     |
| <a href="#">JY5325_V1.0.0_C++Examples.rar</a> | 2024/3/8    | Example  | 5325 5325R     |
| <a href="#">JY5325_V1.0.0_Examples.rar</a>    | 2024/3/8    | Example  | 5325 5325R     |

Figure 1 JYPEDIA Information

## 4. Hardware Specifications

### 4.1 Front Panel and Pin Definition

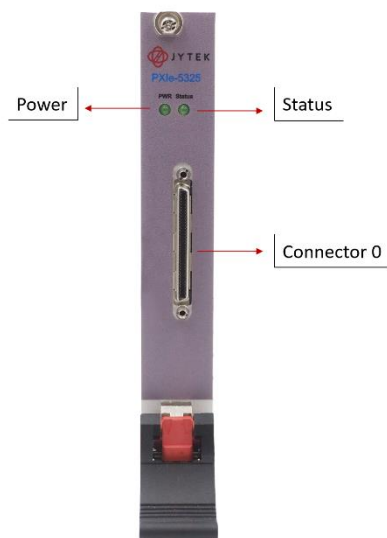


Figure 2 JY-5325 Front Panel

## 4.2 Pin Definition

| Connector 0 |             |     |             |
|-------------|-------------|-----|-------------|
| Pin         | Signal Name | Pin | Signal Name |
| 1           | PF10 / P0.0 | 35  | DGND        |
| 2           | PF11 / P0.1 | 36  | DGND        |
| 3           | PF12 / P0.2 | 37  | DGND        |
| 4           | PF13 / P0.3 | 38  | DGND        |
| 5           | PF14 / P0.4 | 39  | DGND        |
| 6           | PF15 / P0.5 | 40  | DGND        |
| 7           | PF16 / P0.6 | 41  | DGND        |
| 8           | PF17 / P0.7 | 42  | DGND        |
| 9           | AO_GND      | 43  | AO_GND      |
| 10          | AO0         | 44  | AO_GND      |
| 11          | AO1         | 45  | AO_GND      |
| 12          | AO2         | 46  | AO_GND      |
| 13          | AO3         | 47  | AO_GND      |
| 14          | AO4         | 48  | AO_GND      |
| 15          | AO5         | 49  | AO_GND      |
| 16          | AO6         | 50  | AO_GND      |
| 17          | AO7         | 51  | AO_GND      |
| 18          | AI_GND      | 52  | AI_GND      |
| 19          | AI7-        | 53  | AI7+        |
| 20          | AI_GND      | 54  | AI_GND      |
| 21          | AI6-        | 55  | AI6+        |
| 22          | AI_GND      | 56  | AI_GND      |
| 23          | AI5-        | 57  | AI5+        |
| 24          | AI_GND      | 58  | AI_GND      |
| 25          | AI4-        | 59  | AI4+        |
| 26          | AI_GND      | 60  | AI_GND      |
| 27          | AI3-        | 61  | AI3+        |
| 28          | AI_GND      | 62  | AI_GND      |
| 29          | AI2-        | 63  | AI2+        |
| 30          | AI_GND      | 64  | AI_GND      |
| 31          | AI1-        | 65  | AI1+        |
| 32          | AI_GND      | 66  | AI_GND      |
| 33          | AI0-        | 67  | AI0+        |
| 34          | AI_GND      | 68  | AI_GND      |

Table 16 JY-5325 Connector Pin Definition

## 5. Software

### 5.1 System Requirements

JY-5325 boards can be used in a Windows or a Linux operating system.

Microsoft Windows: Windows 7 32/64 bit, Windows 10 32/64 bit.

Linux Kernel Versions: There are many Linux versions. It is not possible JYTEK can support and test our devices under all different Linux versions. JYTEK will at the best support the following Linux versions.

| Linux Version   |  |
|---|--|
| Ubuntu LTS  |  |
| 16.04:  | 4.4.0-21-generic(desktop/server)                     |
| 16.04.6:  | 4.15.0-45-generic(desktop) 4.4.0-142-generic(server) |
| 18.04:  | 4.15.0-20-generic(desktop) 4.15.0-91-generic(server) |
| 18.04.4:  | 5.3.0-28-generic (desktop) 4.15.0-91-generic(server) |
| Localized Chinese Version                                       |  |
| 中标麒麟桌面操作系统软件（兆芯版）V7.0（Build61）: 3.10.0-862.9.1.nd7.zx.18.x86_64 |  |
| 中标麒麟高级服务器操作系统软件V7.0U6: 3.10.0-957.el7.x86_64                    |  |

Table 17 Supported Linux Versions

### 5.2 System Software

When using the JY-5325 in the Window environment, you need to install the following software from Microsoft website:

Microsoft Visual Studio Version 2015 or above,

.NET Framework version is 4.0 or above.

.NET Framework is coming with Windows 10. For Windows 7, please check .NET Framework version and upgrade to 4.0 or later version.

Given the resources limitation, JYTEK only tested JY-5325 be with .NET Framework 4.0 with Microsoft Visual Studio 2015. JYTEK relies on Microsoft to maintain the compatibility for the newer versions.

## 5.3 C# Programming Language

All JYTEK default programming language is Microsoft C#. This is Microsoft recommended programming language in Microsoft Visual Studio and is particularly suitable for the test and measurement applications. C# is also a cross platform programming language.

## 5.4 JY-5325 Series Hardware Driver

After installing the required application development environment as described above, you need to install the JY-5325 hardware driver.

JYTEK hardware driver has two parts: the shared common driver kernel software (FirmDrive) and the specific hardware driver.

**Common Driver Kernel Software (FirmDrive):** FirmDrive is the JYTEK's kernel software for all hardware products of JYTEK instruments. You need to install the FirmDrive software before using any other JYTEK hardware products. FirmDrive only needs to be installed once. After that, you can install the specific hardware driver.

**Specific Hardware Driver:** Each JYTEK hardware has a C# specific hardware driver. This driver provides rich and easy-to-use C# interfaces for users to operate various JY-5325 function. JYTEK has standardized the ways which JYTEK and other vendor's DAQ boards are used by providing a consistent user interface, using the methods, properties and enumerations in the object-oriented programming environment. Once you get yourself familiar with how one JYTEK DAQ card works, you should be able to know how to use all other DAQ hardware by using the same methods.

Note that this driver does not support cross-process, and if you are using more than one function, it is best to operate in one process.

## 5.5 Install the SeeSharpTools from JYTEK

To efficiently and effectively use JY-5325 boards, you need to install a set of free C# utilities, SeeSharpTools from JYTEK. The SeeSharpTools offers rich user interface functions you will find convenient in developing your applications. They are also needed to run the examples come with JY-5325 hardware. Please register and download the latest SeeSharpTools from our website, [www.jytek.com](http://www.jytek.com).



## 5.6 Running C# Programs in Linux

Most C# written programs in Windows can be run by MonoDevelop development system in a Linux environment. You would develop your C# applications in Windows using Microsoft Visual Studio. Once it is done, run this application in the MonoDevelop environment. This is JYTEK recommended way to run your C# programs in a Linux environment.

If you want to use your own Linux development system other than MonoDevelop, you can do it by using our Linux driver. However, JYTEK does not have the capability to support the Linux applications. JYTEK completely relies upon Microsoft to maintain the cross-platform compatibility between Windows and Linux using MonoDevelop.

## 6. Calibration

JY-5325 Series boards are precalibrated before the shipment. We recommend you recalibrate JY-5325 board periodically to ensure the measurement accuracy. A commonly accepted practice is one year. If for any reason, you need to recalibrate your board, please contact JYTEK.

## 7. Using JY-5325 in Other Software

While JYTEK's default application platform is Visual Studio, the programming language is C#, we recognize there are other platforms that are either becoming very popular or have been widely used in the data acquisition applications. Among them are Python, C++ and LabVIEW. This chapter explains how you can use JY-5325 DAQ card using one of this software.

### 7.1 Python

JYTEK provides and supports a native Python driver for JY-5325 boards. There are many different versions of Python. JYTEK has only tested in CPython version 3.5.4. There is no guarantee that JYTEK python drivers will work correctly with other versions of Python.

If you want to be our partner to support different Python platforms, please contact us.

### 7.2 C++

We recommend our customers to use C# drivers because C# platform deliver much better efficiency and performance in most situations. We also provide C++ drivers and examples in the Qt IDE, which can be downloaded from web. However, due to the limit of our resources, we do not actively support C++ drivers. If you want to be our partner to support C++ drivers, please contact us.

### 7.3 LabVIEW

LabVIEW is a software product from National Instruments. JYTEK does not support LabVIEW and will no longer provide LabVIEW interface to JY-5325 boards. Our third-party partners may have LabVIEW support to JY-5325 boards. We can recommend you if you want to convert your LabVIEW applications to C# based applications.

## **8. About JYTEK**

### **8.1 JYTEK China**

Founded in June, 2016, JYTEK China is a leading Chinese test & measurement company, providing complete software and hardware products for the test and measurement industry. The company has evolved from re-branding and reselling PXI(e) and DAQ products to a fully-fledged product company. The company offers complete lines of PXI, DAQ, USB products. More importantly, JYTEK has been promoting open-sourced based ecosystem and offers complete software products. Presently, JYTEK is focused on the Chinese market. Our Shanghai headquarters and production service center have regular stocks to ensure timely supply; we also have R&D centers in Xi'an and Chongqing. We also have highly trained direct technical sales representatives in Shanghai, Beijing, Tianjin, Xi'an, Chengdu, Nanjing, Wuhan, Guangdong, Haerbin, and Changchun. We also have many partners who provide system level support in various cities.

### **8.2 JYTEK Software Platform**

JYTEK has developed a complete software platform, SeeSharp Platform, for the test and measurement applications. We leverage the open sources communities to provide the software tools. Our platform software is also open sourced and is free, thus lowering the cost of tests for our customers. We are the only domestic vendor to offer complete commercial software and hardware tools.

### **8.3 JYTEK Warranty and Support Services**

With our complete software and hardware products, JYTEK is able to provide technical and sales services to wide range of applications and customers. In most cases, our products are backed by a 1-year warranty. For technical consultation, pre-sale and after-sales support, please contact JYTEK of your country.

## 9. Statement

The hardware and software products described in this manual are provided by JYTEK China, or JYTEK in short.

This manual provides the product review, quick start, some driver interface explanation for JYTEK JY-5325 Series family of multi-function data acquisition boards. The manual is copyrighted by JYTEK.

No warranty is given as to any implied warranties, express or implied, including any purpose or non-infringement of intellectual property rights, unless such disclaimer is legally invalid. JYTEK is not responsible for any incidental or consequential damages related to performance or use of this manual. The information contained in this manual is subject to change without notice.

While we try to keep this manual up to date, there are factors beyond our control that may affect the accuracy of the manual. Please check the latest manual and product information from our website.

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