

1. JY-7811 Switch Module Specifications

1.1 Overview



The JY-7811 is a versatile PXIe switching module designed for precise and reliable switching applications. It is equipped to handle various electrical parameters and is optimized for use in automated test systems, measurement applications, and other high-performance environments.

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

1.2 Main Features

- 66 Simultaneous SPDT Channels
- 1A Maximum Current (switching or carry, per channel)
- Maximum Switching Voltage:
 - Channel-to-channel: 100 V
 - Channel-to-ground: 100 V, CAT I
- Maximum Switching Power (per channel):
 - 30 W, 31.25 VA (DC to 60 Hz)
- Relay Operate Time:
 - 4 ms, maximum
- Relay Type: Electromechanical, latching
- Bandwidth with cable: ≥ 3 MHz (-3dB, 50 Ω termination)

1.3 Hardware Specifications

1.3.1 Input Characteristics

Maximum switching voltage	Channel-to-channel : 100 V Channel-to-ground : 100 V, CAT I
Maximum switching power (per channel)	0.5A@50VDC, 1A@30VDC, 1A@31.25VAC (DC to 60 Hz))
Maximum current (switching or carry, perchannel)	1A
Simultaneous channels at maximum current ($\leq 55^{\circ}\text{C}$)	66
Minimum switch load	10 μA at 10 mVDC
DC Path resistance	Initial: $<0.5\Omega$ End of life: $\geq 1.0\Omega$
Contact resistance of a connector	$<35\text{ m}\Omega$
Cable resistance*	0.4 Ω/m
Bandwidth(-3dB,50 Ω termination)	$\geq 90\text{ MHz}$
Bandwidth with Cable (-3dB, 50 Ω termination)*	$\geq 3\text{ MHz}$
*Cable PN: ACL-1030200-2	

Table 1 Input Characteristics

Maximum Switching Capacity

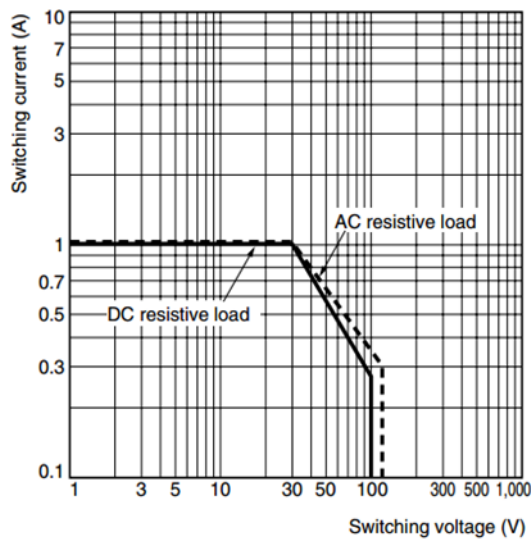


Figure 1 Switching Voltage

1.3.2 Crosstalk

Frequency	PXIe-7811 switch (dB), typical	PXIe-7811 with cable* (dB), typical
10 kHz	-75	-55
100 kHz	-70	-35
1 MHz	-60	-20
10 MHz	-35	-5
*Cable PN : ACL-1030200-2		

Table 2 Crosstalk

1.3.3 Isolation

Frequency	PXIe-7811 switch (dB), typical	PXIe-7811 with cable* (dB), typical
10 kHz	-90	-75
100 kHz	-65	-55
1 MHz	-45	-35
10 MHz	-25	-5
*Cable PN : ACL-1030200-2		

Table 3 Isolation

1.3.4 Dynamic Characteristics

Relay operate time	4 ms, maximum
Expected relay life	Mechanical: 5×10^7 cycles
	Electrical: 30 VDC, 1 ADC resistive : 1×10^5 cycles

Table 4 Dynamic Characteristics

1.3.5 Trigger Characteristics

Input trigger	Sources : PXI trigger lines <0...7> Minimum pulse width : 150 ns
Output trigger	Destinations : PXI trigger lines <0...7> Pulse width : Programmable (1 μ s to 62 μ s)

Table 5 Trigger Characteristics

1.3.6 Physical Characteristics

Relay type	Electromechanical, latching
Relay contact material	Palladium-ruthenium, gold covered
I/O connector	200 POS LFH Matrix 50, receptacle
PXI power requirement	10W at 12V 1W at 3.3V
Dimensions (L × W × H)	3U, one slot, PXIe 21.6 cm × 2.0 cm × 13.0 cm (8.5 in. × 0.8 in. × 5.1 in.)
Weight	231g

Table 6 Physical Characteristics

1.3.7 Environment

Maximum altitude	2,000 m (at 25 °C ambient temperature)
Pollution Degree	2

Table 7 Environment

Operating Environment

Ambient temperature range	0 °C to 55 °C
Relative humidity range	10% to 90%, noncondensing

Table 8 Operating Environment

Storage Environment

Ambient temperature range	-20 °C to 70 °C
Relative humidity range	5% to 95%, noncondensing

Table 9 Storage Environment

2. Order Informations

- PXIe-7811 (PN: JY1943462-01)
66-CH, 100 Vdc / 1 A / 30 W, SPDT PXIe Relay Module
- Accessory
 - ACL-1030200-2 (PN: JY8143027-01) 2-meter, 200-pin LFH female C type to 4x50-pin DSUB cable
 - DIN-50-01 (PN: JY4689899-01) 50-pin DSUB terminal box with DIN rail

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3. Introduction

3.1 Abbreviations

- NO: Normal Open
- NC: Normal Close
- SPDT: Single Pole Double Throw

3.2 Learn by Example

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. Open JYPEDIA and search for JY-7811 in the driver sheet, select **JY7811 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		
JY7811_V1.0.0_Win.rar	2024/9/6	Driver		
JY7811_V1.0.0_Examples.rar	2024/9/6	Example		
JY7811_V1.0.0_C++Examples.rar	2024/9/6	Driver		
JY7811_V1.0.0_Python.rar	2024/9/6	Driver		
JY7811_V1.0.0_PythonExamples.rar	2024/9/6	Example		

Figure 2 JYPEDIA Information

4. Hardware Specifications

4.1 Diagram

The following figure shows the JY-7811 default power-on state

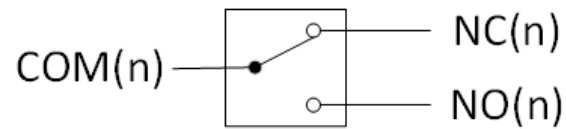


Figure 3 Power-on state

4.2 Front Panel



Figure 4 Front Panel

4.3 Pin Definition

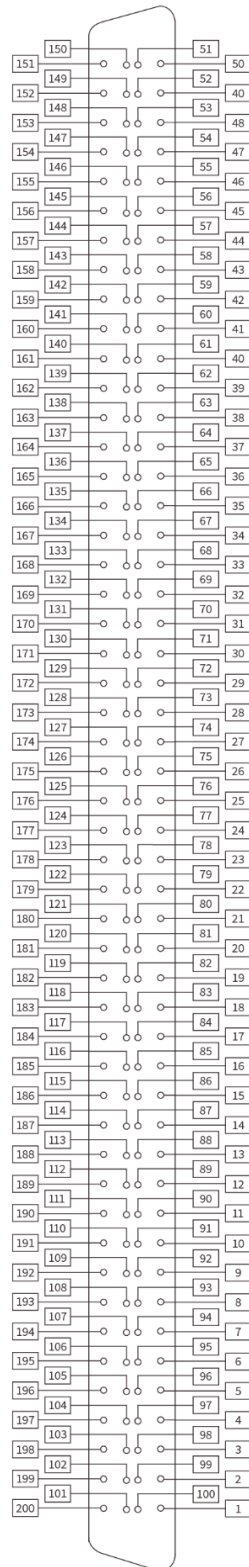


Figure 5 Pin Definition

Pin Number	Signal	Pin Number	Signal	Pin Number	Signal	Pin Number	Signal
Pin1	NO49	Pin51	COM0	Pin101	NC49	Pin151	NC50
Pin2	NO48	Pin52	COM1	Pin102	NC48	Pin152	COM50
Pin3	NO47	Pin53	COM2	Pin103	NC47	Pin153	NO50
Pin4	NO46	Pin54	COM3	Pin104	NC46	Pin154	NC51
Pin5	NO45	Pin55	COM4	Pin105	NC45	Pin155	COM51
Pin6	NO44	Pin56	COM5	Pin106	NC44	Pin156	NO51
Pin7	NO43	Pin57	COM6	Pin107	NC43	Pin157	NC52
Pin8	NO42	Pin58	COM7	Pin108	NC42	Pin158	COM52
Pin9	NO41	Pin59	COM8	Pin109	NC41	Pin159	NO52
Pin10	NO40	Pin60	COM9	Pin110	NC40	Pin160	NC53
Pin11	NO39	Pin61	COM10	Pin111	NC39	Pin161	COM53
Pin12	NO38	Pin62	COM11	Pin112	NC38	Pin162	NO53
Pin13	NO37	Pin63	COM12	Pin113	NC37	Pin163	NC54
Pin14	NO36	Pin64	COM13	Pin114	NC36	Pin164	COM54
Pin15	NO35	Pin65	COM14	Pin115	NC35	Pin165	NO54
Pin16	NO34	Pin66	COM15	Pin116	NC34	Pin166	NC55
Pin17	NO33	Pin67	COM16	Pin117	NC33	Pin167	COM55
Pin18	NO32	Pin68	COM17	Pin118	NC32	Pin168	NO55
Pin19	NO31	Pin69	COM18	Pin119	NC31	Pin169	NC56
Pin20	NO30	Pin70	COM19	Pin120	NC30	Pin170	COM56
Pin21	NO29	Pin71	COM20	Pin121	NC29	Pin171	NO56
Pin22	NO28	Pin72	COM21	Pin122	NC28	Pin172	NC57
Pin23	NO27	Pin73	COM22	Pin123	NC27	Pin173	COM57
Pin24	NO26	Pin74	COM23	Pin124	NC26	Pin174	NO57
Pin25	NO25	Pin75	COM24	Pin125	NC25	Pin175	NC58
Pin26	NO24	Pin76	COM25	Pin126	NC24	Pin176	COM58
Pin27	NO23	Pin77	COM26	Pin127	NC23	Pin177	NO58
Pin28	NO22	Pin78	COM27	Pin128	NC22	Pin178	NC59
Pin29	NO21	Pin79	COM28	Pin129	NC21	Pin179	COM59
Pin30	NO20	Pin80	COM29	Pin130	NC20	Pin180	NO59
Pin31	NO19	Pin81	COM30	Pin131	NC19	Pin181	NC60
Pin32	NO18	Pin82	COM31	Pin132	NC18	Pin182	COM60
Pin33	NO17	Pin83	COM32	Pin133	NC17	Pin183	NO60
Pin34	NO16	Pin84	COM33	Pin134	NC16	Pin184	NC61
Pin35	NO15	Pin85	COM34	Pin135	NC15	Pin185	COM61
Pin36	NO14	Pin86	COM35	Pin136	NC14	Pin186	NO61
Pin37	NO13	Pin87	COM36	Pin137	NC13	Pin187	NC62
Pin38	NO12	Pin88	COM37	Pin138	NC12	Pin188	COM62
Pin39	NO11	Pin89	COM38	Pin139	NC11	Pin189	NO62
Pin40	NO10	Pin90	COM39	Pin140	NC10	Pin190	NC63
Pin41	NO9	Pin91	COM40	Pin141	NC9	Pin191	COM63
Pin42	NO8	Pin92	COM41	Pin142	NC8	Pin192	NO63
Pin43	NO7	Pin93	COM42	Pin143	NC7	Pin193	NC64
Pin44	NO6	Pin94	COM43	Pin144	NC6	Pin194	COM64
Pin45	NO5	Pin95	COM44	Pin145	NC5	Pin195	NO64
Pin46	NO4	Pin96	COM45	Pin146	NC4	Pin196	NC65
Pin47	NO3	Pin97	COM46	Pin147	NC3	Pin197	COM65
Pin48	NO2	Pin98	COM47	Pin148	NC2	Pin198	NO65
Pin49	NO1	Pin99	COM48	Pin149	NC1	Pin199	
Pin50	NO0	Pin100	COM49	Pin150	NC0	Pin200	

Table 10 Pin Configuration Layout

P0 LFH200	P1 DB50 female	Signal	Twisting Pattern
51	1	COM0	twisted
50	2	NO0	
52	3	COM1	twisted
49	4	NO1	
53	5	COM2	twisted
48	6	NO2	
54	7	COM3	twisted
47	8	NO3	
55	9	COM4	twisted
46	10	NO4	
56	11	COM5	twisted
45	12	NO5	
57	13	COM6	twisted
44	14	NO6	
58	15	COM7	twisted
43	16	NO7	
59	17	COM8	twisted
42	33	NO8	
60	32	COM9	twisted
41	31	NO9	
61	30	COM10	twisted
40	29	NO10	
62	28	COM11	twisted
39	27	NO11	
63	26	COM12	twisted
38	25	NO12	
64	24	COM13	twisted
37	23	NO13	
65	22	COM14	twisted
36	21	NO14	
66	20	COM15	twisted
35	19	NO15	
67	18	COM16	twisted
34	34	NO16	
68	35	COM17	twisted
33	36	NO17	
69	37	COM18	twisted
32	38	NO18	
70	39	COM19	twisted
31	40	NO19	
71	41	COM20	twisted
30	42	NO20	
72	43	COM21	twisted
29	44	NO21	
73	45	COM22	twisted
28	46	NO22	
74	47	COM23	twisted
27	48	NO23	
75	49	COM24	twisted
26	50	NO24	

Table 11 Connector Pin Function Mapping Configuration

P0 LFH200	P2 DB50 female	Signal	Twisting Pattern
151	1	NC50	twisted
150	2	NC0	
152	3	COM50	twisted
149	4	NC1	
153	5	NO50	twisted
148	6	NC2	
154	7	NC51	twisted
147	8	NC3	
155	9	COM51	twisted
146	10	NC4	
156	11	NO51	twisted
145	12	NC5	
157	13	NC52	twisted
144	14	NC6	
158	15	COM52	twisted
143	16	NC7	
159	17	NO52	twisted
142	33	NC8	
160	32	NC53	twisted
141	31	NC9	
161	30	COM53	twisted
140	29	NC10	
162	28	NO53	twisted
139	27	NC11	
163	26	NC54	twisted
138	25	NC12	
164	24	COM54	twisted
137	23	NC13	
165	22	NO54	twisted
136	21	NC14	
166	20	NC55	twisted
135	19	NC15	
167	18	COM55	twisted
134	34	NC16	
168	35	NO55	twisted
133	36	NC17	
169	37	NC56	twisted
132	38	NC18	
170	39	COM56	twisted
131	40	NC19	
171	41	NO56	twisted
130	42	NC20	
172	43	NC57	twisted
129	44	NC21	
173	45	COM57	twisted
128	46	NC22	
174	47	NO57	twisted
127	48	NC23	
175	49	NC58	twisted
126	50	NC24	

Table 12 Connector Pin Function Mapping Configuration

P0 LFH200	P3 DB50 female	Signal	Twisting Pattern
176	1	COM58	twisted
125	2	NC25	
177	3	NO58	twisted
124	4	NC26	
178	5	NC59	twisted
123	6	NC27	
179	7	COM59	twisted
122	8	NC28	
180	9	NO59	twisted
121	10	NC29	
181	11	NC60	twisted
120	12	NC30	
182	13	COM60	twisted
119	14	NC31	
183	15	NO60	twisted
118	16	NC32	
184	17	NC61	twisted
117	33	NC33	
185	32	COM61	twisted
116	31	NC34	
186	30	NO61	twisted
115	29	NC35	
187	28	NC62	twisted
114	27	NC36	
188	26	COM62	twisted
113	25	NC37	
189	24	NO62	twisted
112	23	NC38	
190	22	NC63	twisted
111	21	NC39	
191	20	COM63	twisted
110	19	NC40	
192	18	NO63	twisted
109	34	NC41	
193	35	NC64	twisted
108	36	NC42	
194	37	COM64	twisted
107	38	NC43	
195	39	NO64	twisted
106	40	NC44	
196	41	NC65	twisted
105	42	NC45	
197	43	COM65	twisted
104	44	NC46	
198	45	NO65	twisted
103	46	NC47	
199	47		twisted
102	48	NC48	
200	49		twisted
101	50	NC49	

Table 13 Connector Pin Function Mapping Configuration

P0 LFH200	P4 DB50 female	Signal	Twisting Pattern
76	1	COM25	twisted
25	2	NO25	
77	3	COM26	twisted
24	4	NO26	
78	5	COM27	twisted
23	6	NO27	
79	7	COM28	twisted
22	8	NO28	
80	9	COM29	twisted
21	10	NO29	
81	11	COM30	twisted
20	12	NO30	
82	13	COM31	twisted
19	14	NO31	
83	15	COM32	twisted
18	16	NO32	
84	17	COM33	twisted
17	33	NO33	
85	32	COM34	twisted
16	31	NO34	
86	30	COM35	twisted
15	29	NO35	
87	28	COM36	twisted
14	27	NO36	
88	26	COM37	twisted
13	25	NO37	
89	24	COM38	twisted
12	23	NO38	
90	22	COM39	twisted
11	21	NO39	
91	20	COM40	twisted
10	19	NO40	
92	18	COM41	twisted
9	34	NO41	
93	35	COM42	twisted
8	36	NO42	
94	37	COM43	twisted
7	38	NO43	
95	39	COM44	twisted
6	40	NO44	
96	41	COM45	twisted
5	42	NO45	
97	43	COM46	twisted
4	44	NO46	
98	45	COM47	twisted
3	46	NO47	
99	47	COM48	twisted
2	48	NO48	
100	49	COM49	twisted
1	50	NO49	

Table 14 Connector Pin Function Mapping Configuration

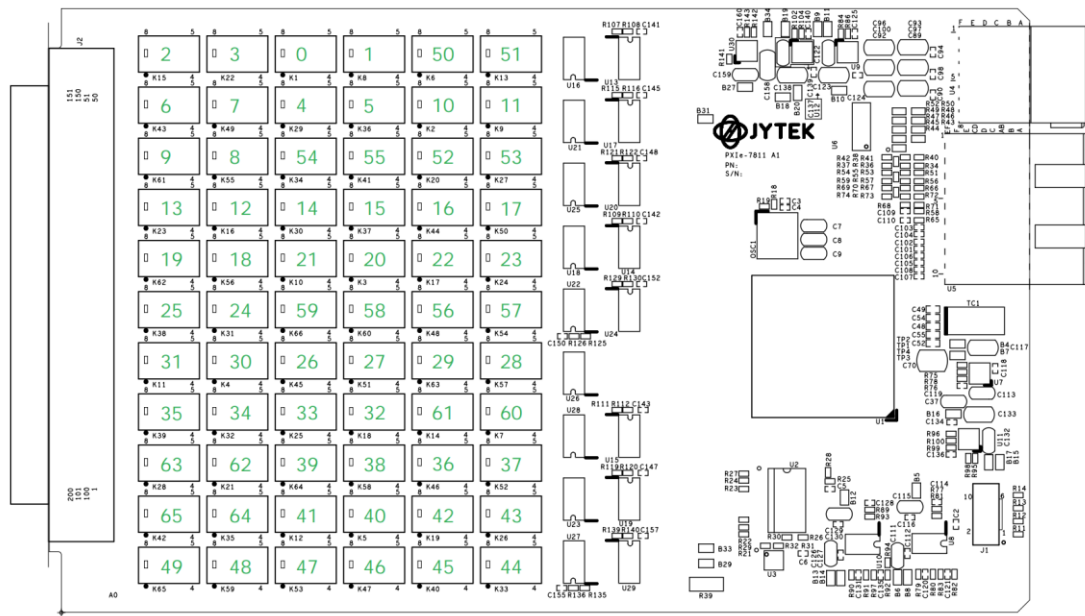


Figure 6 Relay module layout

4.4 Cable and Connectors Technical Specifications

Cable

Maximum Current:	1A
Operating Voltage:	150V
Standard Lengths	1m, 2m (customizable to different lengths)

Table 15 Cable Specification

Connectors

200-pin LFH Plug

Rated Voltage	150V
Rated Current	1A
Contact Material	Gold-plated Copper
Contact Resistance	≤35mΩ
Mounting Screw	M3

Table 16 Connectors Specifications

D-SUB 50-pin Receptacle

Rated Voltage	300V
Rated Current	3A
Contact Material	Gold-plated Copper
Contact Resistance	≤35mΩ
Mounting Screw	#4-40UNC

Table 17 D-SUB 50-pin Receptacle

Wire Parameters	
Wire Type	Shielded Twisted Pair
Rated Voltage	300V
Conductor Material	Tin-plated Copper
Conductor Stranding	7/0.12 (28 AWG)
Wire Resistance	0.4Ω/m (28 AWG)

Table 18 Wire Parameters

Product Order Information:	
2m Length	ACL-1030200-2
Conductor Insulation Material	PP
Jacket Material	PVC
Cable Diameter	8.0mm
Additional Braided Sleeve	No

Table 19 Product Order Information

Special Notes:

This cable employs full shielding technology, including interference-resistant aluminum foil and tin-plated copper braid shielding, effectively reducing external interference.

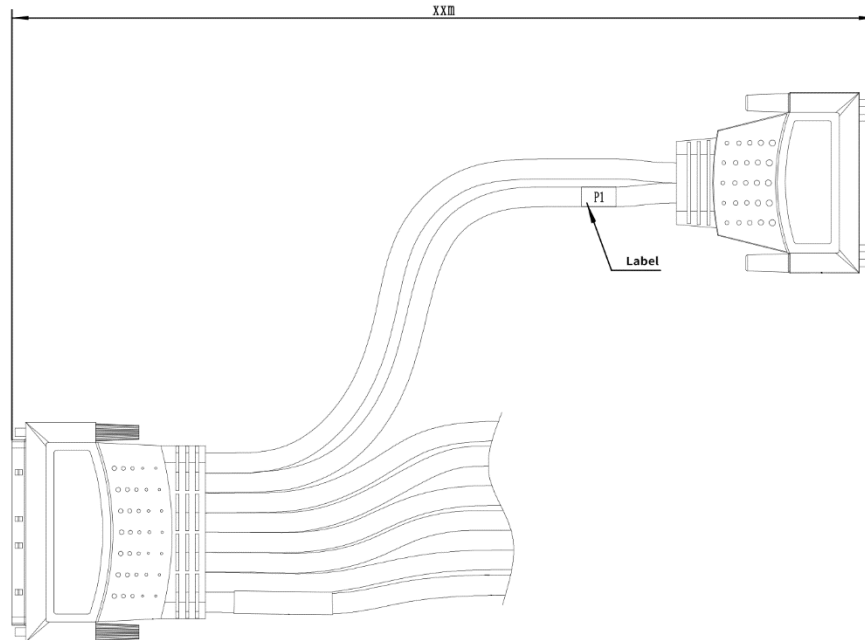


Figure 7 Cable and Connectors

5. Software

5.1 System Requirements

JY-7811 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 20 Supported Linux Versions

5.2 System Software

When using the JY-7811 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-7811 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-7811 Hardware Driver

After installing the required application development environment as described above, you need to install the JY-7811 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-7811 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-7811 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-7811 hardware. Please register and download the latest SeeSharpTools from our website, 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. Using JY-7811 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-7811 DAQ card using one of this software.

6.1 Python

JYTEK provides and supports a native Python driver for JY-7811 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.

6.2 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.

6.3 LabVIEW

LabVIEW is a software product from National Instruments. JYTEK does not support LabVIEW and will no longer provide LabVIEW interface to JY-7811 boards. Our third-party partners may have LabVIEW support to JY-7811 boards. We can recommend you if you want to convert your LabVIEW applications to C# based applications.

7. About JYTEK

7.1 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.

7.2 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.

7.3 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.

8. 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-7811 Series family of multi-function data acquisition boards. The manual is copyrighted by JYTEK.

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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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