# SYRD245-2U/2R/2S/2P 2.45 GHz Reader User Manual



Version 1.4 2011/10/19



## I . Product Specification

Specification		
Communication	mmunication 2.45 GHz Support read and write	
Frequency	2.40~2.48 GHz	
Channel	316	
RSSI	0-255	
LQI	0-255	
Programmable	Set Parameter	
LED	LED visual indication	
Interface		
SYRD245-2U	USB	
SYRD245-2S	RS232 RX, TX	
SYRD245-2R/2P	RS485 +, - (2P for SYRIS Controller)	
Power		
Power Input	3.5 VDC ~ 12 VDC (2R) , 7 VDC ~ 18 VDC	
(2S/2P) , 5 VDC (2U)		
Action Current	100 mA @ 5 VDC	
Environment		
Operating Temperature	-20 °C to 65 °C, 5 to 95%RH	
Storage Temperature	-30 °C to 85 °C, 5 to 95%RH	
Dimension	92W x 66H x 20D (mm)	



### ${\rm I\hspace{-1.5pt}I}$ . The Diagram of the System Connection

SYRD245-2 series can connect with 3 different interfaces : USB(2U)  $\smallsetminus$  RS-232(2S)  $\smallsetminus$  RS-485(2R/2P)  $_{\circ}$ 





#### III. Install USB Driver

SYRD245-2U need install USB driver to active device in Microsoft windows system. SYRD245-2R/2S/2P have no need install any driver, just select correct port to connect with reader.

1. Execute install program in SYRIS CD: SYRIS Xtive CD-ROM\SYRD245-2\Driver\

🛃 PL-2303 Driver Installer - InstallShield	Wizard		×
Extracting Files The contents of this package are being e	extracted.		24
Please wait while the InstallShield Wizard Driver Installer on your computer. This m	extracts the files ay take a few mo	needed to install I ments.	PL-2303
Extracting Setup.exe			
InstallShield			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

- 2. Reboot PC after the installation.
- When you finished install driver, you can execute SYRIS Xtive Utility program to read TAG and set parameters. (Please refer to <u>Xtive Utility user manual</u>)



#### IV . Setting SYRD245-2P

1. Connect SYRD245-2P "4R+" and "4R-" to MD485-USB then connect to PC.



2. Execute SYRIS Xtive DVD-ROM\SYRD245-2\Utility\SYRD245\_2P\_Tools\_V0183.exe





3. Scan Reader to get reader's serial number and firmware version.

🌳 SYRD245-2P Tools V0183		
Get Reader Info Ok. (COM : #7) 🔶	Parameter Setting	9
S/N : 10264018 VER : V1.33-01		<u>•</u>
Scan Reader	Set RSSI	Get RSSI
ID: 01	7 •	Þ
Set Reader ID	Set Gain	
BaudRate: 19200,e,8,1		
Set Reader Baud Rate	0000 •	•
Wiegand 26 bits 💌 RS485 32 bits 💌	Set Exciter ID	Get Exciter ID
Set Reader Mode		
Factory Default	Reader Reset	
TAG ID	English 簡	体繁體
Read TAG	<u>n</u> e	Exit

4. Adjust the ID number and then click "Set Reader ID" to change Reader's ID.

ID: 01 •
Set Reader ID

5. Select communication Baud rate and then click "Set Baud rate" to change Reader's Baud rate.

BaudRate:	19200,e,8,1 💌 🔽	
Set Read	er Baud Rate	

6. Set reader mode to Wiegand or RS485



7. Factory Default: All setting will set factory default.



8. Adjust RSSI level (0~250) to filter TAG which have low RSSI signal in reader. (This function was available in version 1.30 or above.)

120 •	<u> </u>
Set RSSI	Get RSSI
Sat Roop ON	Sat Boop OFF



Ex. Set RSSI Level to 120, Reader will receive tag which RSSI are stronger than 120.

9. Set Gain (1~7) to control reader's read range.

Level 7 is the max range (default setting), Level 1 is the shortest read range

10. Set Exciter ID (This function was available in version 2.03 or above.) :

This parameter should use with SYRIS exciter, default values are "0000" means disable. If this function enable, reader will only receive tag's signal which include set exciter ID.

6084 •	► International
2153 •	Þ
Set Exciter ID	Get Exciter ID

11. Reader Reset: Reset online reader. Reader will warm restart.