



Quality Achieves Intelligent Equipment

Changsha SonnePower Electronic Technology Co., Ltd

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W W W . S O N N E P O W E R . C N



SINCE **2007**

MISSION

Quality achieves intelligent equipment

VALUES

Customer-oriented, Fast response, Integrity and reliability

STOCK **872435**

VISION

Become a leader in the innovation of equipment control technology

BEHAVIOR STANDARDS

Honest, Open, Passion



COMPANY INTRODUCTION

Founded in 2007, Changsha SonnePower Electronic Technology Co., Ltd. (stock code: 872435) is located in Xiangjiang New Area, Hunan, China (Changsha High-tech development zone) , who is dedicated to provide electronic products such as controller, displayer, intelligent distributed IO, operation panel as well as whole electronic control system solutions for equipment.

While focusing on the research and development of the core components of the equipment control system, SonnePower strive to build the supporting capabilities of the overall solution for the equipment electronic control system. From focusing on environmental sanitation machinery to the current comprehensive expansion of electronic control system solutions in the equipment industry, it all reflects our pursuit of product quality and deep accumulation of industry applications.

With the expansion of product application fields, controller, displayer and other electronic products have been widely used in concrete machinery, agricultural machinery, port machinery, mining machinery, pavement machinery, petroleum equipment, airport equipment, fire truck, aerial work truck, crane, AGV, hydrogen energy and other fields, and the high quality product and service have been highly recognized by more and more customers.

After years of unremitting efforts, SonnePower has successively cooperated and became long term business relationships with Zoomlion, Infore Enviro, SANY, Yutong, Lovol, Guangtai, XCMG, Shenzhen DongFeng, Shantui, ZPMC, Zhongzhuo, YTO Group and other well-known industries brand customers.

Guided by the enterprise culture principle of "Customer-oriented, Fast response, Integrity and reliability", we will create more value for our customers through innovative products, system optimization solutions and professional technical services.

1

Controller

2

IO Module

3

Operation Panel

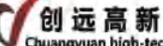
4

Displayer

5

Vehicle Electric Control System

MAIN CUSTOMERS

 中联重科	 盈峰环境	 SANY	 宇通重工	 潍柴	 广泰
 徐工集团	 东风汽车	 SHANTUI	 上海振华重工	 中卓时代	 中国一拖
 中国铁建	 星邦重工	 河北远达	 金威环保	 杰瑞集团	 程力集团
 信达集团	 冀中能源	 雷沃	 迪沃科技	 中国中车	 劲旅环境
 科步科技	 宏昌天马	 钻通	 国鸿氢能	 响前重工	 WACKER NEUSON
 开沃汽车	 圣岳	 JIEDA	 WESTWELL	 创远高新	 CIMC 中集

R&D PARTNER

STW was founded in 1985, the headquarter lies in Germany. It's specializing in design, production and solutions in the field of mobile machinery control. The STW controller has a flexible and Extensible Framework, and its high quality and reliability are due to its rich application experience in the harsh environmental conditions of off-road vehicles.

STW provides unique technical innovation and service support to many of the world's leading Off-Road vehicle equipment manufacturers, and remains a leader in this market segment.

SonnePower, cooperating with STW, aiming to provide global customers with high quality & high reliability electronic control system products and solutions. Efficient customized services will provide you better products with competitive price.

It's our mission to satisfy your needs. Looking forward to communicating & working with you.



Since 1985

Headquarter in GER

Focus on the Control of Mobile Mechanical Equipments

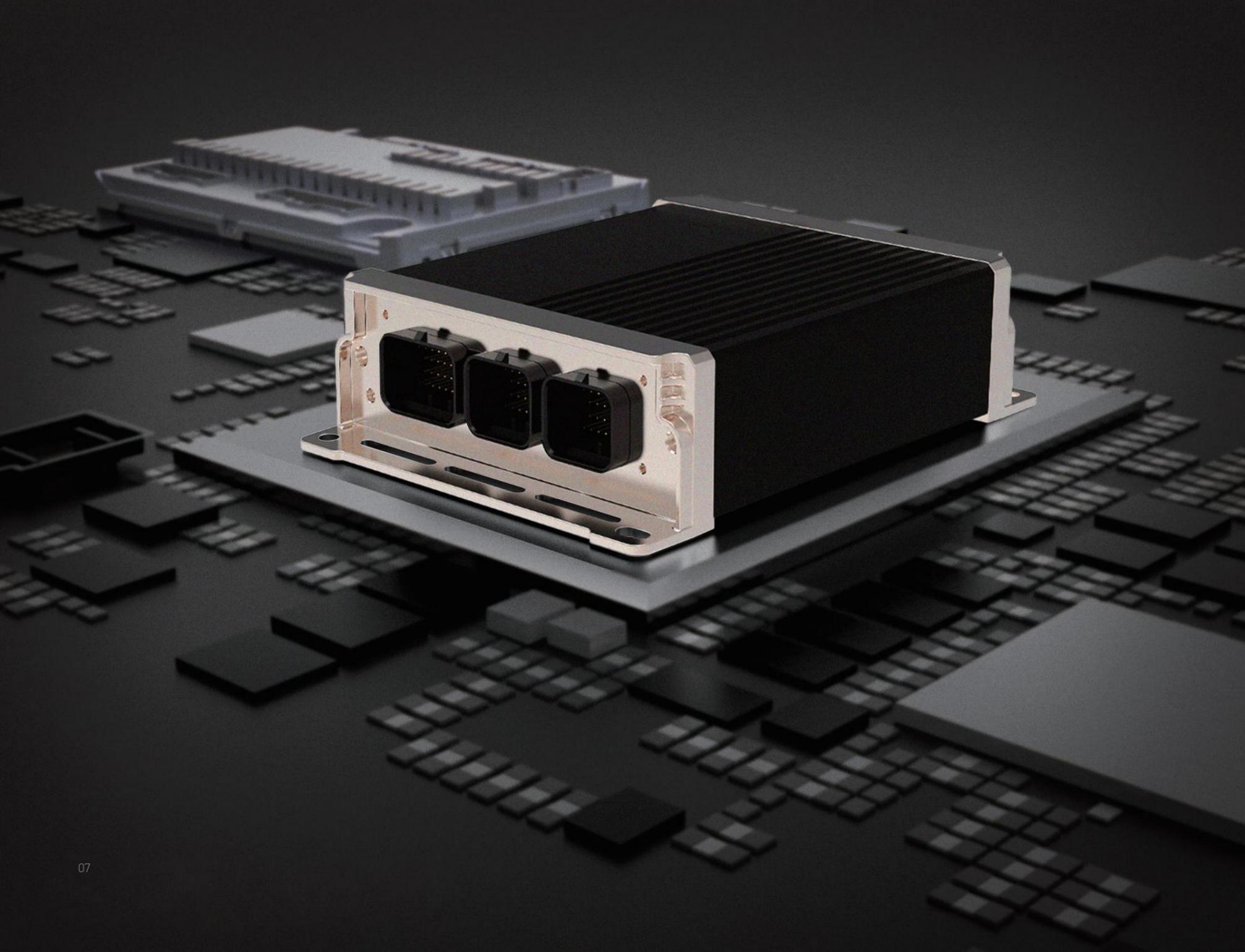
Kyland is a leading global innovator in Industrial Ethernet Technology, and it is the only Chinese mainland company among the the top 10 in global industrial communications rankings. By innovating and establishing standards, Kyland strives to bring the industry together on three levels: by unifying communication protocols, establishing a platform for industrial APP software and control hardware platform. Through 20 years of research and development work, Kyland has developed the world leading industrial internet operating system Intewell, all-purpose industrial internet communications chip and software-defined control industry edge controller. The company has also established 5 international standards and 36 national standard for China. Of national projects in China, it has completed 8 tasks under the Core Electronic Devices, High-end Generic Chips and Basic Software Program and 11 tasks under the 863 Technology Program.

In June 2021, SonnePower and Kyland officially signed a strategic cooperation agreement. Both sides will integrate their high-quality technology and resources, and work together to create a new generation of domestically produced, independently controllable revolutionary products for equipment control systems. The combination of Kyland's "root technology" and SonnePower's overall solution capabilities in special equipment electronic control systems will achieve true technological leadership and localization surpassing, leading the new wave of the industry and creating unlimited value for the industry.



APPLICATION CASES OF DIFFERENT VEHICLES





CONTROLLER



CONTROLLER



SPC-STW-S0402CTR

Power Supply	8~32VDC
Communication	3×CAN 1×RS232
Programming Environment	CoDeSys 2.3
Total I/O	4 (4 Inputs/2 Outputs)
	4×DIH; 4×AIU; 2×AI; 2×DOH/PWMH
	1×Vout (+5V/+10V, Max 100mA)

SPC-SFMC-X0402A

Power Supply	8~32VDC
Communication	3×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	4 (4 Inputs/2 Outputs)
	4×DIH/AIU; 2×AI; 2×DOH/PWMH
	1×Vout (+5V/+10V, Max 100mA)

SPC-STW-2612CM

Power Supply	8~32VDC
Communication	3×CAN 1×RS232
Programming Environment	CoDeSys 2.3
Total I/O	26 (26 Inputs/12 Outputs)
	26×DIH/L; 18×AIU; 8×AI; 2×AIR; 6×PI; 1×PI (AB)
	6×PWMiH; 12×DOH (3A); 6×PWMH (3A)
	1×Vout (+5V/+10V, Max 250mA)

SPC-STW-2612CMS

Power Supply	8~32VDC
Communication	3×CAN 1×RS232
Programming Environment	CoDeSys 2.3
Total I/O	26 (26 Inputs/12 Outputs)
	26×DIH/L; 18×AIU; 8×AI; 2×AIR; 6×PI; 1×PI (AB)
	12×DOH (3A); 10×PWMH; 2×PWMiH; 2×H-Bridge; 4×DOL/PWML
	1×Vout (+5V/+10V, Max 250mA)

SPC-SFMC-X2612CM

Power Supply	8~32VDC
Communication	3×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	26 (26 Inputs/12 Outputs)
	26×DIH/L; 18×AIU; 8×AI; 2×AIR; 6×PI; 1×PI (AB)
	6×PWMiH; 12×DOH (3A); 6×PWMH (3A)
	1×Vout (+5V/+10V, Max 250mA)

SPC-SFMC-X2612CMS

Power Supply	8~32VDC
Communication	3×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	6 (26 Inputs/12 Outputs)
	26×DIH/L; 18×AIU; 8×AI; 2×AIR; 6×PI; 1×PI (AB)
	12×DOH (3A); 10×PWMH; 2×PWMiH; 2×H-Bridge
	4×DOL/PWML
	1×Vout (+5V/+10V, Max 250mA)

CONTROLLER



SPC-SFMC-X2214A

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	29 (22 Inputs/14 Outputs)
22×DIH/L; 14×AIU; 4×AIR; 2×All; 4×PI; 1×PI (AB)	
14×DOH; 2×DOL; 5×PWMIH; 7×PWMH; 2×PWML 1×H-Bridge	
1×Vout (+5V/10V, Max 250mA)	

CONTROLLER



SPC-CFMC-D24N20

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 2.3
Total I/O	44 (24 Inputs/20 Outputs)
24×DIH/L; 4×DIL; 20×AIU; 8×All; 4×PI	
2×PI (AB); 20×DOH; 4×PWMIH; 8×PWMH	
1×Vout (+10V, Max 250mA)	
1×AO (0.6~5V, Max 250mA)	

SPC-CFMC-D20N24A2

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 2.3
Total I/O	44 (24 Inputs/24 Outputs)
24×DIH/L; 16×AIU; 6×All; 2×AIR; 6×PI; 1×PI (AB); 24×DOH	
16×PWMIH; 4×PWML; 2×H-Bridge	
1×Vout (+5V/+10V, Max 250mA)	
1×AO (0.6~5V, Max 250mA)	

SPC-CFMC-D20N24C2

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 2.3
Total I/O	44 (24 Inputs/24 Outputs)
24×DIH/L; 16×AIU; 6×All; 2×AIR; 6×PI; 1×PI (AB); 24×DOH	
1×Vout (+5V/+10V, Max 250mA)	
1×AO (0.6~5V, Max 250mA)	

SPC-SFMC-X2024G

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	44 (24 Inputs/24 Outputs)
24×DIH/L; 16×AIU; 6×All; 2×AIR; 6×PI; 1×PI (AB); 24×DOH	
4×DOL; 16×PWMIH; 4×PWML; 2×H-Bridge	
1×Vout (+5V/+10V, Max 250mA)	
1×AO (0.6~5V, Max 250mA)	

CONTROLLER



SPC-SFMC-X2024H

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	44 (24 Inputs/24 Outputs)
24×DIH/L; 16×AIU; 6×All; 2×AIR; 6×PI; 2×PI (AB)	
24×DOH; 20×PWMH	
1×Vout (+5V/+10V, Max 250mA)	
1×AO (0.6~5V, Max 250mA)	

CONTROLLER



SPC-SFMC-X2424A

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	44 (24 Inputs/24 Outputs)
24×DIH/L; 16×AIU; 6×All; 2×AIR; 6×PI; 2×PI (AB); 24×DOH	
4×DOL; 16×PWMIH; 4×PWMH; 4×PWML; 2×H-Bridge	
1×Vout (+5V/+10V, Max 250mA)	
1×AO (0.6~5V, Max 250mA)	

SPC-SFMC-X2424C

Power Supply	8~32VDC
Communication	2×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	44 (24 Inputs/24 Outputs)
24×DIH/L; 16×AIU; 6×All; 2×AIR; 6×PI; 2×PI (AB)	
24×DOH; 20×PWMH	
1×Vout (+5V/+10V, Max 250mA)	
1×AO (0.6~5V, Max 250mA)	

CONTROLLER



SPC-SFMC-X3632A

Power Supply	8~32VDC
Communication	3×CAN 1×RS232
Programming Environment	CoDeSys 3.5
Total I/O	66 (36 Inputs/32 Outputs)
36×DIH/L; 28×AIU; 2×AIR; 8×All; 8×PI; 2×PI (AB);	
32×DOH; 4×DOL; 8×PWMIH; 14×PWMH; 4×PWML; 2×H-Bridge	
1×Vout (+5V/+10V, Max 250mA)	
1×AO (0~5V, Max 250mA)	
1×AOV (One Channel Variable Voltage 0~11V Output)	
1×AOI (One Channel Variable Current 0~24mA Output)	

CONTROLLER



SPL0601

Power Supply 8~32VDC

Communication 3×CAN 4×RS232

1×RS485 1×Ethernet

Programming Environment CoDeSys 3.5

Total I/O 66 (38 Inputs/30 Outputs)

10×All; 34×AIU; 33×DIH; 5×DIL; 2×AIR; 4×PI
2×PI (AB); 30×DOH; 4×DOL; 6×PWMIH; 14×PMMH
4×PWML; 2×H-Bridge
3×Vout (0~11V, Max 10mA)
1×Vout (0~5V OR 0~10V, Max 250mA)

SPL0602

Power Supply 8~32VDC

Communication 3×CAN 4×RS232

1×RS485 1×Ethernet

Programming Environment CoDeSys 3.5

Total I/O 66 (38 Inputs/30 Outputs)

10×All; 34×AIU; 26×DIH; 10×DIH/L; 2×AIR; 4×PI/PI (AB)
26×DOH; 6×PWMIH; 10×PMMH; 4×DOH/L; 2×H-Bridge
4G/Beidou/8G storage
3×Vout (0~11V, Max 10mA)

CONTROLLER



SPL0603

Power Supply 8~32VDC

Communication 4×CAN 2×RS232

2×RS232/RS485 (Optional) 1×Ethernet

Programming Environment CoDeSys 3.5

Total I/O 120 (75 Inputs/50 Outputs)

10×All; 63×AIU; 75×DIH; 3×AIR; 16×PI; 4×PI (AB)
50×DOH/8×PVG; 20×PWMIH; 27×PMMH; 8×DOL; 1×PO
4×H-Bridge
1×Vout (+5V/10V, Max 250mA)
2×AOV (Two Channels Variable Voltage 0~11V Output)
1×AOI (One Channel Variable Current 0~24mA Output)

SPL0701

Power Supply 8~32VDC

Communication 2×CAN 1×WIFI 1×RS232

1×RS485 1×Ethernet

Programming Environment CoDeSys 3.5

Total I/O 11 (11 Inputs/8 Outputs)

9×All; 11×AIU; 4×DIH/L; 7×DIH; 1×DOH; 7×PMMH; 7×DOH
4G/Beidou/8G storage
Support C/C++ programming
1×Vout (12V, 0.5A)



CONTROLLER



SPC-SDIO-S0808SPK

Communication 1×CAN

Protocol CANopen

Max Load 15A

Total I/O 8 (8 Inputs/8 Outputs)

8×AIU (0~10V)/DIH; 8×DOH (3A)

Integrated Voice Amplifier

4Ω/8Ω, ≤30W Loudspeaker

110 Peak Decibels (0.5m, H508 Loudspeaker@24V)

SPC-SDIO-S0902

Communication 1×CAN

Protocol CANopen

Max Load 5A

Total I/O 11 (9 Inputs/2 Outputs)

2×AIR (1Ω~600Ω); 1×AIR (16Ω~10KΩ); 7×AIU (0~10V)

9×DIH; 4×DIL; 2×PI (≤30KHz); 1×H-Bridge (3A)

1×PI (AB) (≤30KHz); 2×DOH (3A); 2×DOL

SPC-SDIO-S0711

Communication 1×CAN

Protocol CANopen

Max Load 15A

Total I/O 11 (7 Inputs/11 Outputs)

7×AIU (0~10V)/DIH; 7×DOH (3A)/PWMH (3A);

4×DOH (3A)/PWMiH (3A, Current Feedback Range 0.2~3A)

SPC-SDIO-S1200

Communication 1×CAN

Protocol CANopen

Total I/O 12 (12 Inputs/0 Outputs)

2×AIU (0~32V); 12×DIH; 2×AIR (1Ω~600Ω); 6×AIU (0~10V)

8×DIL; 4×PI (≤30KHz); 2×PI (AB) (≤30KHz); 6×AI (4~20mA)

SPC-SDIO-S1212

Communication 1×CAN

Protocol CANopen

Max Load 15A

Total I/O 12 (12 Inputs/12 Outputs)

12×AIU (0~32V); 12×DOH (3A); 12×DIH (3A)

CONTROLLER



SPM-SDIO-MD1

Communication 1×CAN

Protocol CANopen

Max Load 21A

Total I/O 9 (1 Inputs/8 Outputs)

1×DIH; 3×H-Bridge (3A); 2×PWMiH/DOH (6A)

SPM-SDIO-MD2

Communication 1×CAN

Protocol CANopen

Max Load 40A

Total I/O 9 (2 Inputs/7 Outputs)

2×DIH; 3×H-Bridge (15A); 1×PWMiH/DOH (6A)

CONTROLLER



SPC-SDIO-1412

Communication 1×CAN

Protocol User-defined

Max Load 15A

Total I/O 26 (26 Inputs/12 Outputs)

26×DIH; 26×DIL; 4×AIU (0~32V); 6×AIU (0~10V)

8×AIU (0~15V); 8×AI (4~20mA); 2×AIR (16Ω~10KΩ)

6×PI (≤30KHz); 1×PI (AB) (≤30KHz)

12×DOH (3A); 10×PWMH; 2×PWMiH

4×DOL (3A)/PWML (3A); 2×H-Bridge (3A)

1×Vout (+5V/+10V, Max250mA)

SPC-SDIO-1412CF

Communication 1×CAN

Protocol User-defined

Max Load 15A

Total I/O 26 (26 Inputs/12 Outputs)

6×DIH; 26×DIL; 4×AIU (0~32V); 6×AIU (0~10V)

8×AIU (0~15V); 8×AI (4~20mA); 2×AIR (16Ω~10KΩ)

6×PI (≤30KHz); 1×PI (AB) (≤30KHz)

6×PWMiH (3A, Current Feedback Range 0.2~3A)

12×DOH (3A); 6×PWMH (3A)

1×Vout (+5V/+10V, Max 250mA)

SPC-SDIO-0824

Communication 1×CAN

Protocol User-defined

Max Load 20A

Total I/O 32 (32 Inputs/24 Outputs)

7×AIU (0~5V); 32×DIH; 24×DOH (3A); 8×PWMH (3A)

3×PI (≤11KHz)

1×Vout (0.6~5V, Max 250mA)

SPC-SDIO-1616

Communication 1×CAN

Protocol User-defined

Max Load 20A

Total I/O 32 (32 Inputs/16 Outputs)

7×AIU (0~5V); 32×DIH; 16×DOH (3A); 4×PWMH (3A)

3×PI (≤11KHz)

1×Vout (0.6~5V, Max 250mA)

SPC-SDIO-0032

Communication 1×CAN

Protocol User-defined

Max Load 20A

Total I/O 32 (32 Inputs/32 Outputs)

32×DIH; 7×AIU (0~5V); 3×PI (≤11KHz); 32×DOH (3A)

8×PWMH; 4×PWM (3A); 1×Vout (0.6~5V, Max 250mA)

SPC-SDIO-0032A1

Communication 1×CAN

Protocol User-defined

Max Load 20A

Total I/O 32 (32 Inputs/32 Outputs)

32×DOH (3A); 32×DIL

SPC-SDIO-3200

Communication 1×CAN

Protocol User-defined

Total I/O 32 (32 Inputs)

7×AIU (0~5V); 32×DIH; 3×PI (≤11KHz)

1×Vout (0.6~5V, Max 250mA)



OPERATION PANEL
SPM-KEYP-A08



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 8 Keys 1×DOH
 - Status Indicator** RGB Monocolor LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand

OPERATION PANEL
SPM-KEYP-C08



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 8 Keys 1×DOH
 - Status Indicator** RGB Monocolor LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand

OPERATION PANEL
SPM-KEYP-A12



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 12 Keys 1×DOH
 - Status Indicator** RGB Three-color LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand

OPERATION PANEL
SPM-KEYP-B08



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 7 Keys+ 1 Rotary Knob(With Button)
1×DOH
 - Status Indicator** RGB Monocolor LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand

OPERATION PANEL
SPM-KEYP-Q08



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 8 Keys 1×DOH
 - Status Indicator** RGB Monocolor LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand
Hemlines

OPERATION PANEL
SPM-KEYP-Q12



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 12 Keys 1×DOH
 - Status Indicator** RGB Three-color LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand
Hemlines

OPERATION PANEL

SPM-KEYP-A16



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 16 Keys 1×DOH
 - Status Indicator** RGB Three-color LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand

OPERATION PANEL

SPM-KEYP-A20



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 20 Keys 1×DOH
 - Status Indicator** RGB Three-color LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand

OPERATION PANEL

SPM-KEYP-A17N



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 17 Keys 1×DOH
 - Status Indicator** RGB Three-color LED
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand

OPERATION PANEL

SPM-LEDP-C12



- Communication** 1×CAN
 - Protocol** User-defined
 - Resources** 12pcs Of Highlight LED
 - Status Indicator** RGB Monocolor LED(10 Green+2 Red)
 - Backlight** White Adjustable Brightness
- Customized Key Pattern On Demand
Hemlines

REMOTE CONTROLLER

EMITTER

SPR-HT-K8A/K10A/K12A



- Communication** Wireless,Center Frequency
 - Resources** 8Keys/10Keys/12Keys+Emergency Stop+Power Switch
 - Status Indicator** LCD
 - Backlight** White Settable Switch
- Customized Key Pattern On Demand
- Dimension** 218*64*40 mm
 - Communication distance** >100m (Open visible conditions)
 - Power Supply** 4.5V (With Three Dry Batteries)

EMITTER

SPR-HT-XK8A



- Communication** Wireless,Center Frequency
 - Resources** 8Keys+Emergency Stop+Power Switch
 - Status Indicator** Two Sets Of Three Color Status Lights
 - Backlight** Blue Settable Switch
- Customized Key Pattern On Demand , Glue Dropping / Radium Carving Process
- Dimension** 155.5*58*44 mm
 - Communication distance** >100m (Open visible conditions)
 - Power Supply** 3.7V (Lithium Battery)

RECEIVER

SPC-SDIO-S1212WLS2



- Working Voltage** 8 - 32V DC
- Rated Power** 1.56W, 65mA@24V, 20dBm
- Communication** 1CAN+433MHz Wireless Communication
- Max Load** 15A
- Total I/O** 12 (12 Inputs/12 Outputs) (Single Output, MAX Drive Power 3A)
12XAIU/DIH; 12XDOH



DISPLAYER



SPD-043-Ax series

Communication	2×CAN
Protocol	User-defined
Dimension	4.3 Inch
Programming Environment	CoDeSys 3.5
Resolution Ratio	480×272
Brightness	≥400cd/m ²
Total I/O	8 (4 Inputs/4 Outputs)
	4×DIH; 2×AIU (0~5V); 2×AIU (0~10V); 2×PI (≤30KHz)
	1×PI (AB); 4×DOH; 2×PWMH; 2×PWMIH
	DDR3:2Gb; NAND:4Gb; FRAM:256kb

SPD-043-Bx series

Communication	1×CAN 1×RS232
Protocol	User-defined
Dimension	4.3 Inch
Programming Environment	CoDeSys 3.5
Resolution Ratio	480×272
Brightness	≥400cd/m ²
Total I/O	34 (30 Inputs/4 Outputs)
	30×AIU; 30×DIH; 6×DIL; 2×AIR; 2×AII; 2×PI; 1×PI (AB)
	4×DOH; 2×PWMIH; 2×PWMH
	DDR3:2Gb; NAND:4Gb; FRAM:256kb

DISPLAYER



SPD-070-Ax-K series

Communication	2×CAN 1×RS232/RS485
Protocol	User-defined
Dimension	7 Inch
Programming Environment	CoDeSys 3.5
Resolution Ratio	800×480
Brightness	400/≥600cd/m ²
Total I/O	6 (6 Inputs/2 Outputs)
	2×AII/AIR/DIH/AIU; 2×DIH/PI; 1×PI (AB); 2×AIU/DIH/DOH
	8 Programmable Keys Capacitive Touch
	DDR3:2Gb; NAND:4Gb; FRAM:256kb
	2×CVBS Video Inputs
	Support 4G, GPS, Bluetooth, Ethernet, USB
	Built-in RTC, Buzzer, Extended SD Card

DISPLAYER



SPD-070-Bx series

Communication 5×CAN 1×RS232

Protocol User-defined

Dimension 7 Inch

Programming Environmen CoDeSys 3.5

Resolution Ratio 800×480

Brightness 400/≥600cd/m²

9 Keys+ 1 Rotary Knob (With Button)

Capacitive Touch

Total I/O 20 (20 Inputs/8 Outputs)

16×AIU; 20×DIH; 8×DIL; 8×AIR; 8×All; 4×PI; 1×PI (AB)

8×DOH; 8×PWMiH

DDR3:2Gb; NAND:4Gb; FRAM:256kb

4×CVBS Video Inputs

Support 4G, GPS/Beidou, Bluetooth, Ethernet, USB

Built-in RTC, Extended SD Card

Integrated Voice Amplifier

4Ω/8Ω, ≤30W Loudspeaker

110 Peak Decibels (0.5m, H508 Loudspeaker@24V)

DISPLAYER



SPD-070-Cx series

Communication 1×CAN

Protocol User-defined

Dimension 7 Inch

Programming Environmen CoDeSys 3.5

Resolution Ratio 800×480

Brightness 400/≥600cd/m²

8 Keys DDR3:512MB; EMMC:8GB

Support Ethernet, WIFI, Built-in RTC

DISPLAYER



SPD-070-Ex series

Communication 2×CAN 1×RS232/RS485

Protocol User-defined

Dimension 7 Inch

Programming Environmen CoDeSys 3.5

Resolution Ratio 1024×600

Brightness 450/≥600cd/m²

Total I/O 6 (6 Inputs/2 Outputs)

2×All/AIR/DIH/AIU; 2×DIH; 2×AIU/DIH/DOH; 1×PI (AB)

8 Programmable Keys Capacitive Touch

DDR4:1GB; FRAM:256kb; EMMC:8GB

2×Video Inputs (CVBS/AHD/TVI/CVI)

Support 4G, GPS/Beidou, Bluetooth, Ethernet, USB

Built-in RTC, Extended SD Card

DISPLAYER



SPD-070-Fx series

Communication 5×CAN 1×RS232

Protocol User-defined

Dimension 7 Inch

Programming Environmen CoDeSys 3.5

Resolution Ratio 1024×600

Brightness 450/≥600cd/m²

9 Keys+ 1 Rotary Knob (With Button)

Capacitive Touch

Total I/O 20 (20 Inputs/8 Outputs)

16×AIU; 20×DIH; 8×DIL; 8×AIR; 8×All; 4×PI; 1×PI (AB)

8×DOH; 8×PWMiH

DDR4:1GB; FRAM:256kb; EMMC:8GB

4×Video Inputs (CVBS/AHD/TVI/CVI)

Support 4G, GPS/Beidou, Bluetooth, Ethernet, USB

Built-in RTC, Extended SD Card

Integrated Voice Amplifier

4Ω/8Ω, ≤30W Loudspeaker

110 Peak Decibels (0.5m, H508 Loudspeaker@24V)

DISPLAYER



SPD-121-Ax

Communication 4×CAN

Protocol User-defined

Dimension 12.1 Inch

Programming Environmen CoDeSys 3.5

Resolution Ratio 1024×768

Brightness ≥480cd/m² (Typical Value 600)

Working Temperature -30...85°C IP65

Total I/O 1 Inputs (AIU/All/DIH/L) / 1 Outputs (DOH/PWMH)

6 HD Videos Capacitive Touch

DDR3:1GB; EMMC:8GB; FRAM:256kb

Support Bluetooth, Ethernet, USB

Support SD Card Storage

4G, GPS, Microphone Input, Voice Output Functions Can Be Expanded

SONNEPOWER CLOUD PLATFORM

Relying on the self-developed special equipment control/display core products, combined with years of industry experience in construction machinery electronic control systems, SonnerPower has launched the intelligent "SonnerPower Cloud Service" for machines.

The platform breaks the traditional software architecture and establishes an elastic framework that supports high concurrency, dynamic load balancing, integration and sharing. SonnerPower Cloud can be applied to the remote real-time monitoring and operation and maintenance of operating equipment to meet the various needs of the enterprise for special equipment asset management and provide customers with high-quality value-added services.

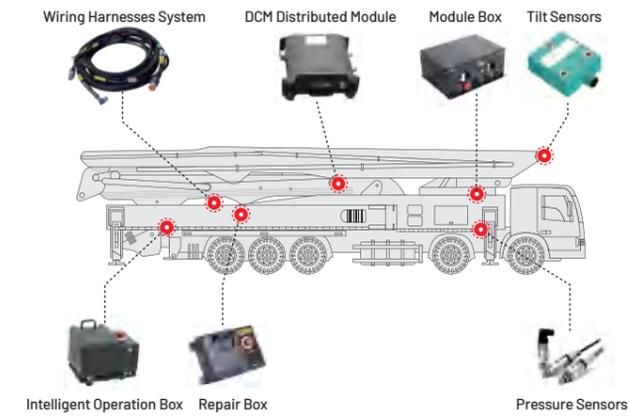
Platform Characteristics

- 01 Seamless cloud access based on its own link products (display screens, Wireless terminals).
- 02 Based on the core components of the self-developed control system, all core control units are connected to realize remote upgrade maintenance and remote function deployment of the application layer and the bottom layer.
- 03 Build an intelligent integrated electronic control system framework scheme. For different equipment and models, the cloud supports system construction configurations that can be redeveloped, and realizes the digital and visual management of the electronic control system in the cloud.
- 04 It realizes real-time location monitoring, operating status monitoring, and working condition analysis of operating equipment, and has functions such as fault self-checking, fault alarm, remote debugging, management, maintenance of wearing parts, cloud data storage and cloud data analysis. They promotes construction machinery applications more energy-saving, safer, more granular and smarter.

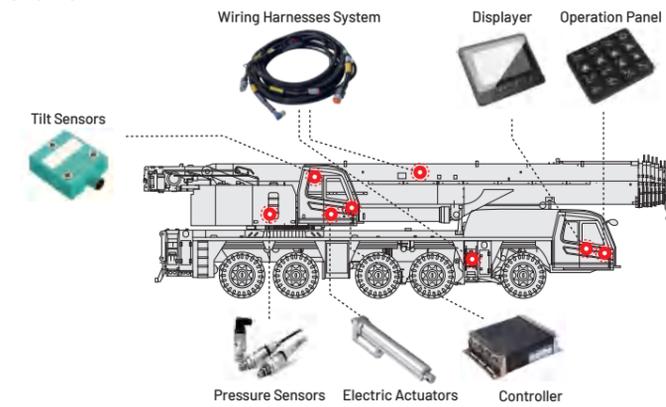


VEHICLE ELECTRIC CONTROL SYSTEM

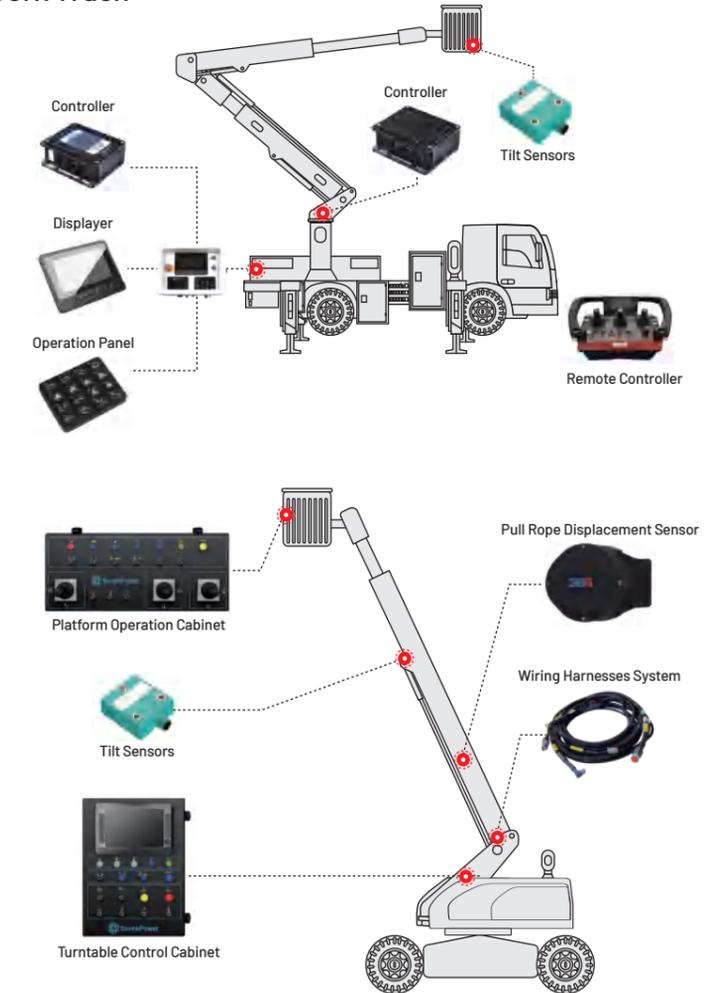
Pump Truck



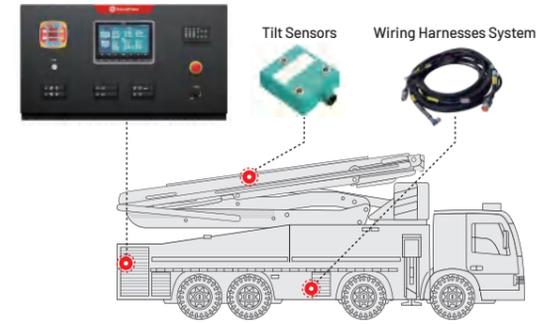
Crane



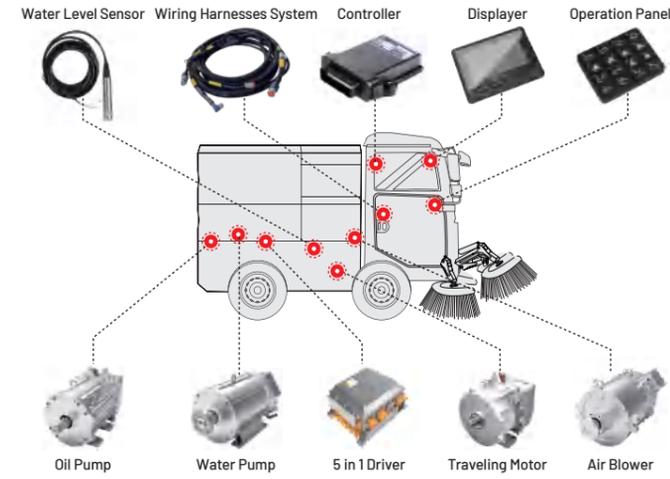
Aerial Work Truck



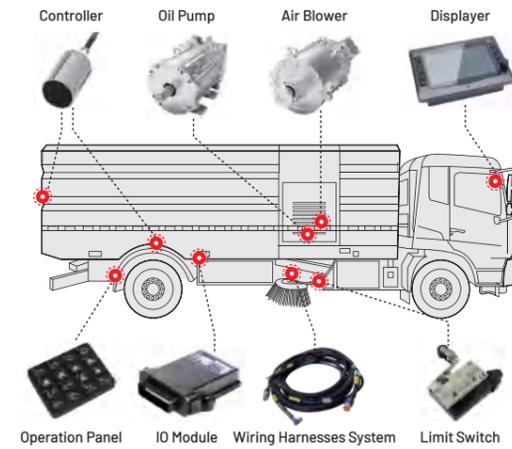
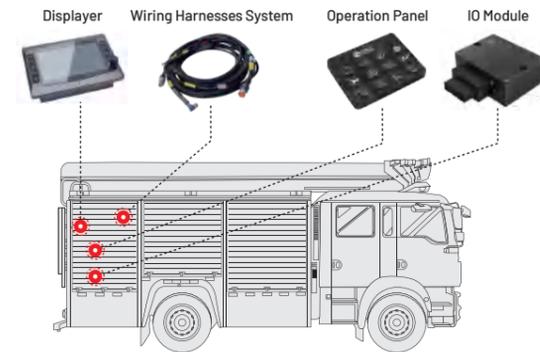
High Lift Jet Fire Truck



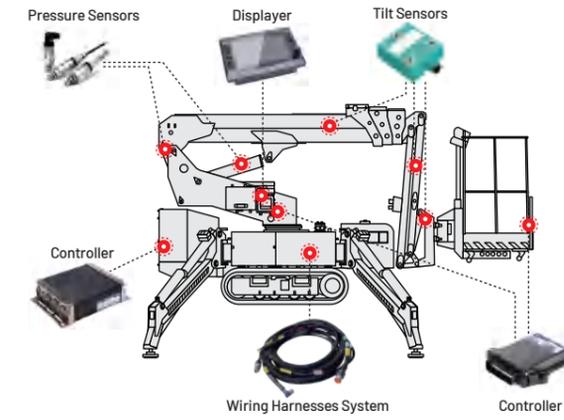
Spider Crane



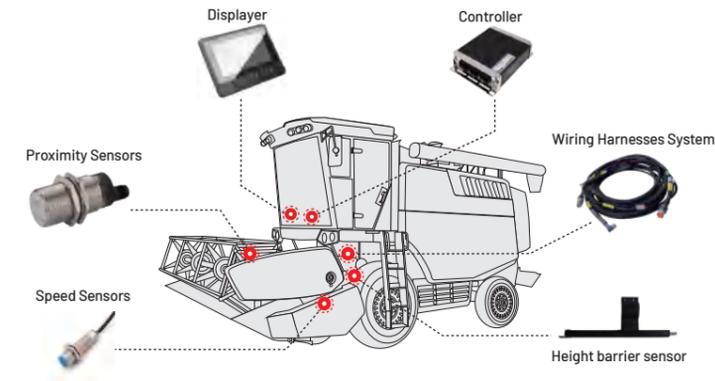
Foam Fire Truck



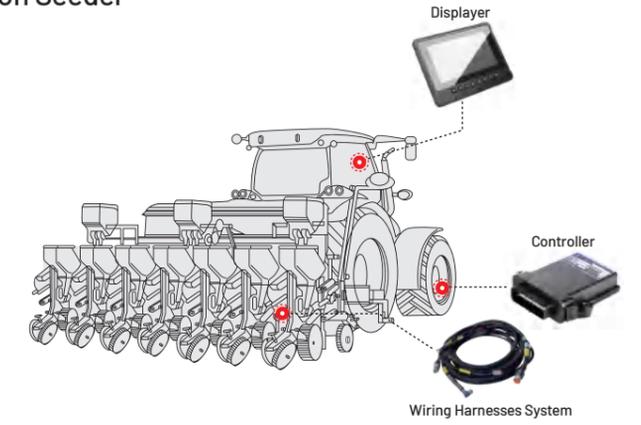
Spider Crane



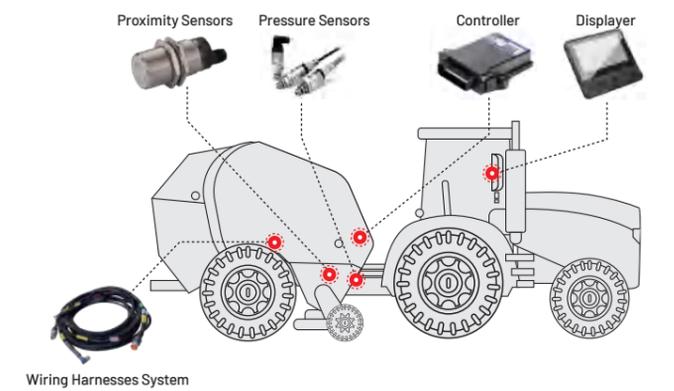
Combine Harvester



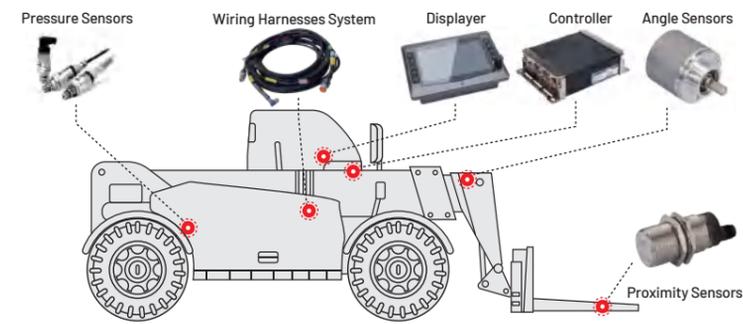
Precision Seeder



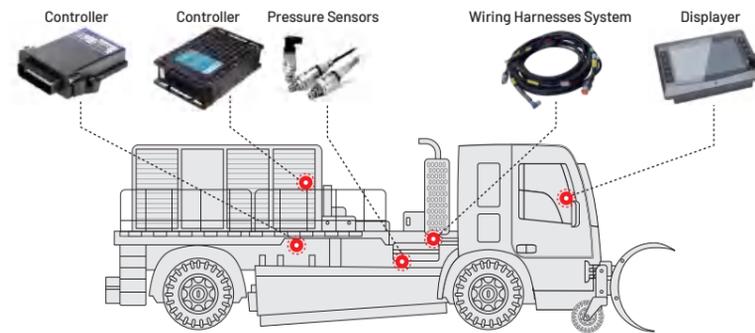
Bander Machine



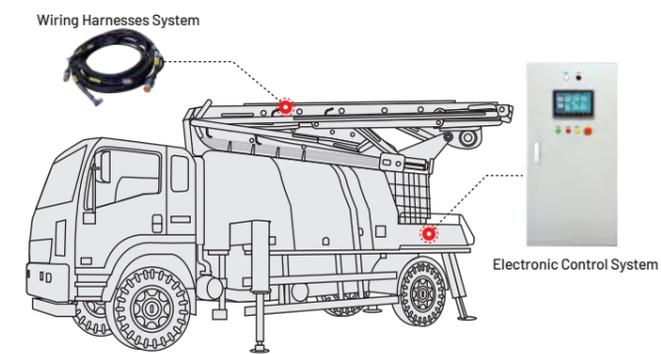
Telescopic Arm Forklift



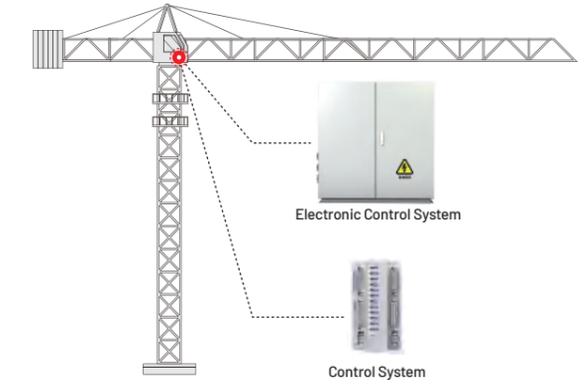
Snow Plow



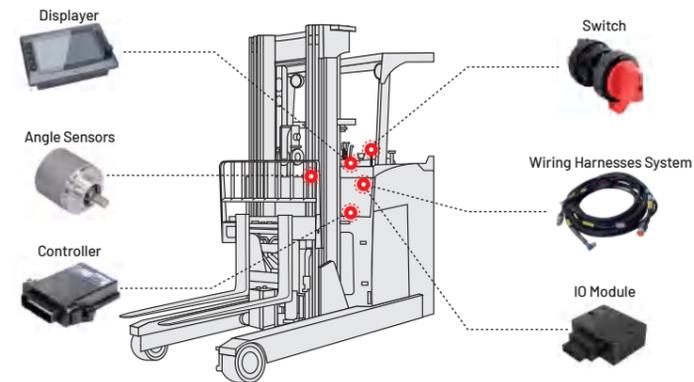
Wet Spray Truck



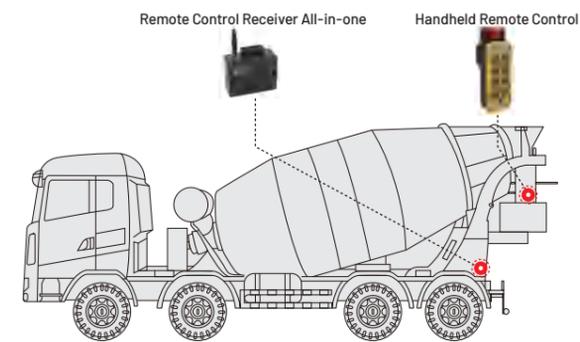
Tower Crane



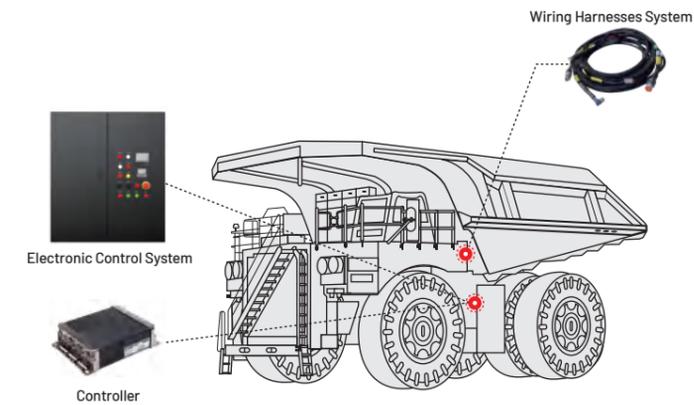
Forklift



Mixer



Mining Truck



Port Machinery

