Partners

Number of Customers 5000+ family | Channel partners 100+ family

Covered industries 40+

- The above are some of our partner customers. To date, we have served over 5,000 domestic and international clients, with no particular ranking order (data as of 2023).

Service Hotline
+86-25-58207959

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

Website:www.njdecowell.com

Email:contact@njdecowell.com

DECOWELL

Decowell product family

PRODUCT FAMILY

Focus on industrial bus solutions

Nanjing Decowell Automation Co., Ltd.

Product Family

- Card I/O
- Integrated I/O
- Discrete I/O
- IP67 Remote I/O
- Onboard I/O
- Valve Terminals
- Industrial Switches


Multifunctional expansion module


Economical expansion module


Multifunctional all-in-one module


Economical all-in-one module


Discrete wiring saving module


IP67 high protection module


PCB board mounted module

PROFINET, EtherCAT Technology Group, DeviceNet, WellBUS, IO-Link, Modbus TCP, CC-Link, EtherNet/IP, CANopen, CC-Link IE Field Basic


MTC Series Compact Multifunctional Valve Terminals


MTC Series Expandable Multifunctional Valve Terminals


Ordinary non-network-managed industrial switch


PROFINETdedicated Industrial Switches

Industrial Applications


Automobile manufacturing industry


Photovoltaic industry


Industrial Robot Industry


Lithium battery industry


Semiconductor Industry


Textile Industry


3C Industry


Logistics Industry

Professionally provide bus customized solutions

Customized according to your needs

Customized products not only shorten the selection cycle and reduce costs but also ensure equipment efficiency.
Stable operation, improving the production efficiency and market competitiveness of enterprises

Complete service system

Ensure quick response to the user's needs

Rich industry experience

With extensive project experience and a senior R&D team, we provide customized, efficient, and

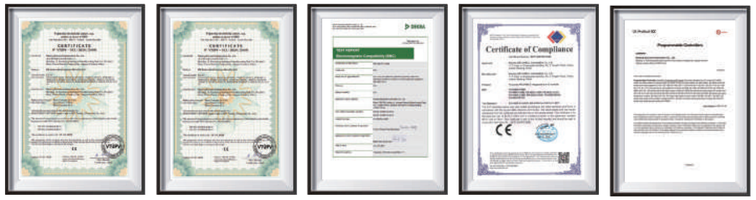
Product Certification

100+ Intellectual Property Rights

Underwriters Laboratories(UL) and CE certificate

ETG,PI CLPA consistency certificate

ISO9001, ISO14001, ISO45001 certifications



CE certification

UL certification


IS09001 IS014001 IS045001

Patent certificate

Provide high-quality services that meet customer expectations

[Decowell After-sales Service Standard]

- Worldwide after-sales support
- Our 24/7 support team ensures global response within 24 hours
- Our global service network ensures that on-site support is available within 48 hours in most visa-free countries and regions for China.
- We provide remote diagnostics and virtual support to quickly identify and resolve issues, minimizing downtime.

DECOWELL

Card I/O

Economicalall-in-one module

Rich types | Stable performance | High cost performance

PROFINET | CC-Link | EtherCAT Technology Group
DeviceNet | CANopen | EtherNet/IP
ModbusTCP | PROFIBUS-DP | CC-Link IE Field Basic

Product Introduction

The EX series card-type I/O system consists of an adapter module, I/O module, power module, and terminal module. The adapter supports multiple communication buses and is compatible with mainstream PLC manufacturers, enabling seamless integration with leading protocols. Users can select configurations based on specific site requirements.With its compact, high-integration design, the system saves valuable space in control cabinets, making it ideal for applications where space is at a premium. The module's card-type locking mechanism enhances stability, providing twice the reliability compared to traditional patch designs.A wide range of I/O module options is available, supporting various signal types, including digital, analog, functional, and communication modules. The system has passed rigorous EMC and extreme temperature testing, ensuring stable and reliable operation. This makes it the optimal choice for automation solutions

Features

Rich variety of modules

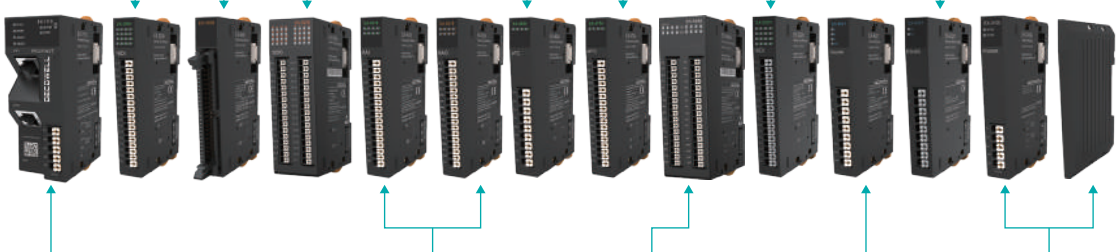
- Meet various scenarios and applications, supporting up to 32 I/O modules

Digital module
- Direct plug-in 8-point transistor input/output
- Direct plug-in 16-point transistor input/output
- Direct plug-in 32-point transistor input/output
- External terminal block 32 points transistor input/output
- Direct plug-in 8-point relay output

Temperature acquisition module
- Thermocouple (TC) K type, S type, J type, R type, T type, B type, E type, C type, N type, voltage measurement input module
- Thermal resistance (RTD) PT100, PT200, PT500, PT1000, NI120, Resistance measurement input module

High-speed counting module
- Two-channel NPN high-speed counting module
- Two-channel PNP high-speed counting module

Communication module
- RS485 Modbus-RTU
- Main station communication module
- RS485 free port communication module
- RS232 free port communication module



Adapter module

Support multiple bus protocols
- EtherCAT
- PROFINET
- EtherNet/IP
- CC-Link
- DeviceNet
- CC-Link IEFB
- Modbus-TCP
- PROFIBUS-DP
- Modbus-RTU
- CANopen

Analog module
- 4/8 channel 0-5V/10V, 0/4-20mA, ±10V, ±5V analog input (16/12Bit)
- 4/8 channel 0-5V/10V, 0/4-20mA, ±10V, ±5V analog output (16/12Bit)

Temperature control module
- 8-channel temperature detection and control module, Comes with PID algorithm, easy to implement Temperature control applications

Encoder acquisition module
- Single-ended NPN encoder acquisition
- Single-ended PNP encoder acquisition
- Single channel differential encoder acquisition
SSI encoder acquisition

Auxiliary module
- System power module
- Terminal module

Stable and Reliable

- Stable data transmission
- Strong anti-interference ability
- Rigorous EMC and high/low temperaturetesting

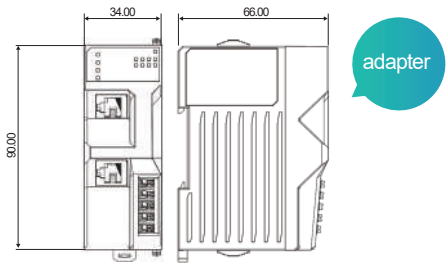
Push-in terminal, quick installation

- Push-in terminal
- Quick wiring

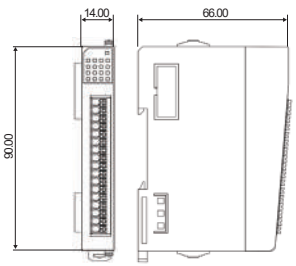
IO Tester Tool Easy Debugging

- Power consumption calculation, quick selection
- Firmware upgrade for easy iteration
- Output forced, quick debugging
- Module parameter settings to simplify operations

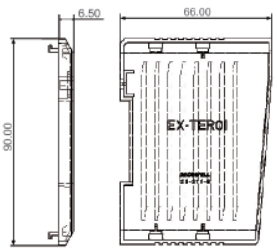
Product size



adapter



I/O Modules



terminal Modules

Application Cases

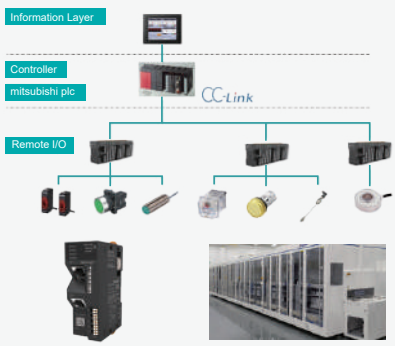
Photovoltaic - I/O device application on cleaning machine

Solution

Main site:Mitsubishi Q series
Project I/O configuration: about 300 digital points, 50 analog channels

Application advantages	Improved the intelligent manag ement level of the cleaning process, enhanced cleaning efficiency and quality

Project Overview: This project is used to flush pollutants generated or invaded during manufacturing, assembly, use, and maintenance. Through the EX series card based remote I/O module, remote monitoring of the status of cleaning equipment can be achieved, including real-time monitoring of parameters such as the operating status of the cleaning machine, water flow pressure, and cleaning solution concentration. This helps to detect equipment abnormalities or malfunctions in a timely manner and enables remote diagnosis and handling, ensuring the smooth progress of the cleaning process.



EX series card type I/O

A single adapter can expand up to 32 I/O modules

(On site equipment diagram)

Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

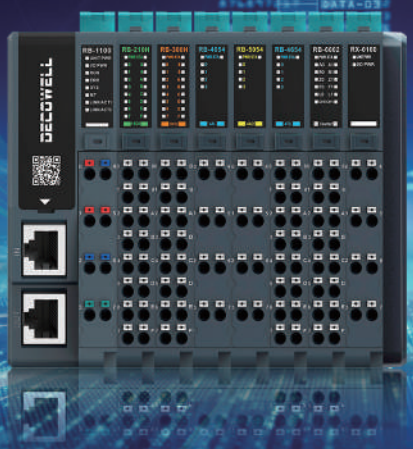
Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959

DECOWELL

Card I/O



Multifunctional expansion module

Three-stage structure | Ultra-thin size | Hot-swappable

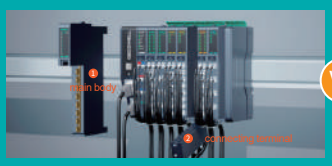
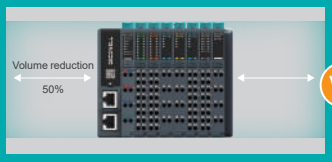
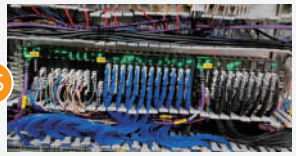
PROFINET | CC-Link | EtherCAT Technology Group
DeviceNet | CANopen | EtherNet/IP
Modbus TCP | Modbus RTU | CC-Link IE Field Basic
CC-Link IE TSN/Field

Product Introduction

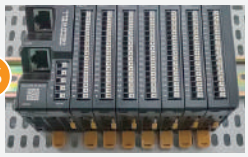
The RB series ultra-thin I/O is a new generation three-section card module that supports mainstream fieldbus protocols, including PROFINET, EtherCAT, and EtherNet/IP. With a single module thickness of just 12mm, it saves cabinet space. The three-section structural design features detachable terminals and supports hot swapping, making on-site maintenance and replacement convenient.During module replacement, the system continues to operate normally without interruption. The module responds quickly and reliably, efficiently collecting input signals and transmitting output signals. It also offers module-level diagnostics, enabling rapid identification of problem modules.A variety of module types are available, including digital input/output, analog input/output, temperature acquisition, encoder modules, and communication modules, catering to customers' needs for diverse solution combinations.

Features

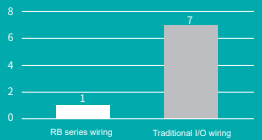
Comparison between RB series and traditional I/O

RB series		Traditional I/O
	VS	
Three section design, with detachable terminal blocks andmain body Support hot plugging/ maintenance without stopping the machine		When a module malfunctions, shut down for maintenance Low production efficiency
	VS	
Large aperture terminal, quick wiring, installation wiring No need for tool assistance		Module wiring/disassembly requires tool assistance inefficiency
	VS	
Thin only 12mm, saving cabinet volume		The module has a large volume and limited layout

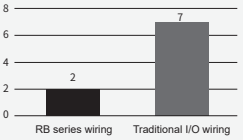
Comprehensive structural optimization is the ideal solution for enhancing installation efficiency

RB series		Traditional I/O
	VS	
Large aperture terminal, tool free wiring		Tool wiring, low efficiency
	VS	
Snap on installation, lock with just one tap, no tools required		The installation process is complicated, laborious, and time-consuming Installation requires the use of tools

Shorten wiring time 70%



Reduced module installation time 50%

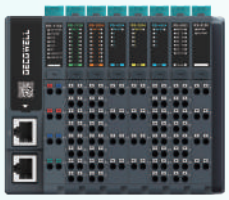


Rich variety of modules to meet various application scenarios

Bus adapter

Analog input module

Analog Output Module



Digital input module

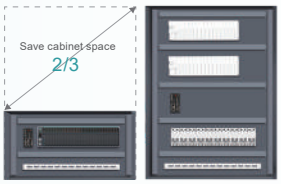
Digital output module

Temperature acquisition module

Functional module

- Supports up to 32 I/O modules

Space saving



RB module electrical cabinet

Other module electrical cabinets

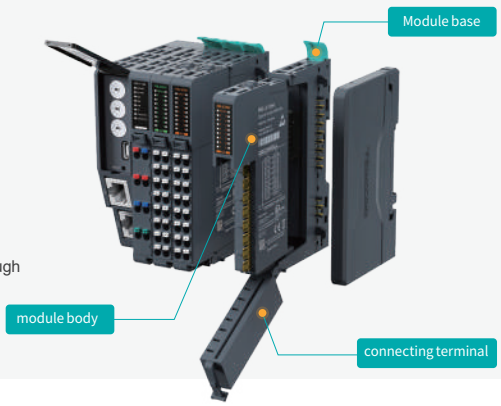
Paper thickness, saving cabinet space

- Module thickness as thin as 12mm
- Save 2/3 of cabinet space

Easy maintenance

Three section structural design/quick wiring/easy maintenance

- Powerful diagnostic function, supporting module level and channel level diagnostics
- Hot swappable function, online maintenance without stopping the machine
- With dial switch and reset function, convenient for on-site debugging and after-sales maintenance
- The dip switch can quickly assign device names or station numbers without the need to operate through upper computer software
- can be quickly replaced without the need for a host computer.



Reliability is significantly enhanced, ensuring stable operation in harsh environments

- Strict electromagnetic testing:Anti-surge, EFT, ESD, lightning, EMCwait
- Comprehensive reliability testing: high and low temperature, salt spray, impact resistance, drop resistance, etc. High temperature (70 °C), low temperature (-20 °C)
- protections:OvercurrentProtection,PowerAnti-reverseconnectionProtection channel indicator light:Accurately locate faults,reducing maintenance time
- Channel indicator light: accurately locate faults and reduce maintenance time
- Gold plating process to prevent corrosion and oxidation

Application Cases

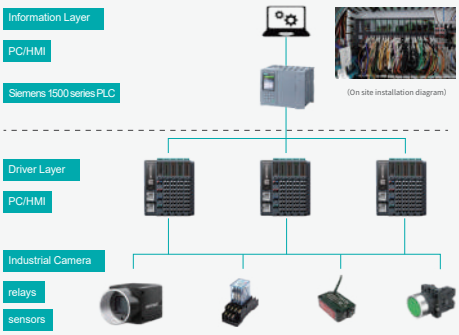
Lithium battery - I/O application on visual inspection equipment

Solution

Main Station: Siemens 1500 Application Process Section: Photovoltaic Production Line Visual Inspection Equipment
Project I/O configuration: This model uses 3 RB series card type I/O slave stations, with a single digital quantity of 366 points

Application advantages	Facing voltage type loads, it can eliminate interference from weak power models, operate stably, and demonstrate High quality performance of domestic brands

Project Overview:** This project involves a visual inspection system for photovoltaic production lines, designed to enable fully automated defect detection and processing through digital input and output signals.
It primarily focuses on the rapid response of industrial cameras, electrical components, sensors, and other loads.
Industrial cameras, being voltage-sensitive loads, require only a specific voltage (low-power signal) to activate, making them prone to interference.
Precise coordination between the workpiece arrival signal and the camera activation signal is essential, as the 12 industrial cameras must complete defect detection within 1.6 seconds, posing significant challenges to signal processing speed and stability.



Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959

DECOWELL

IP67 Remote I/O

IP67 highprotection module

Ultra-high protection | Quick wiring | Efficient diagnosis | Wide temperature range (-40-70℃)

EtherCAT Technology Group | PROFINET | EtherNet/IP

Product Introduction

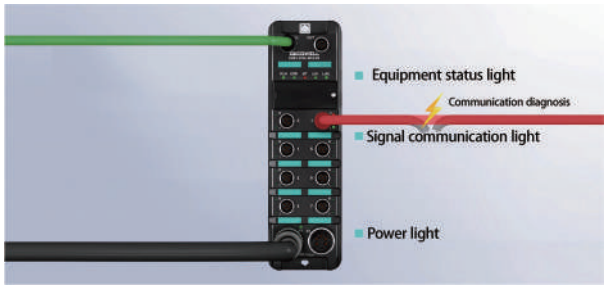
The SD series I/O modules offer an IP67 protection rating, providing exceptional dust and water resistance, making them ideal for use in harsh environmental conditions. The system consists of a master and slave station, with the master station supporting mainstream fieldbus protocols such as PROFINET, EtherCAT, and EtherNet/IP. The master station can connect to slave stations or sensors compatible with the IO-LINK protocol. IO-LINK simplifies equipment installation and maintenance while offering comprehensive diagnostic capabilities, enabling rapid fault detection and resolution. This significantly enhances the overall performance and reliability of the system.

Features

Complete specifications and rich choices

- Rich variety of modules to meet various application scenarios

Efficient diagnosis



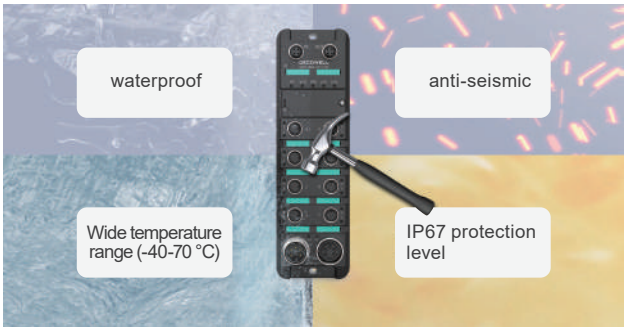
- Communication exception output status setting
- One click reset/firmware upgradequick operation
- Disconnecting indication from the slave module

Quick wiring

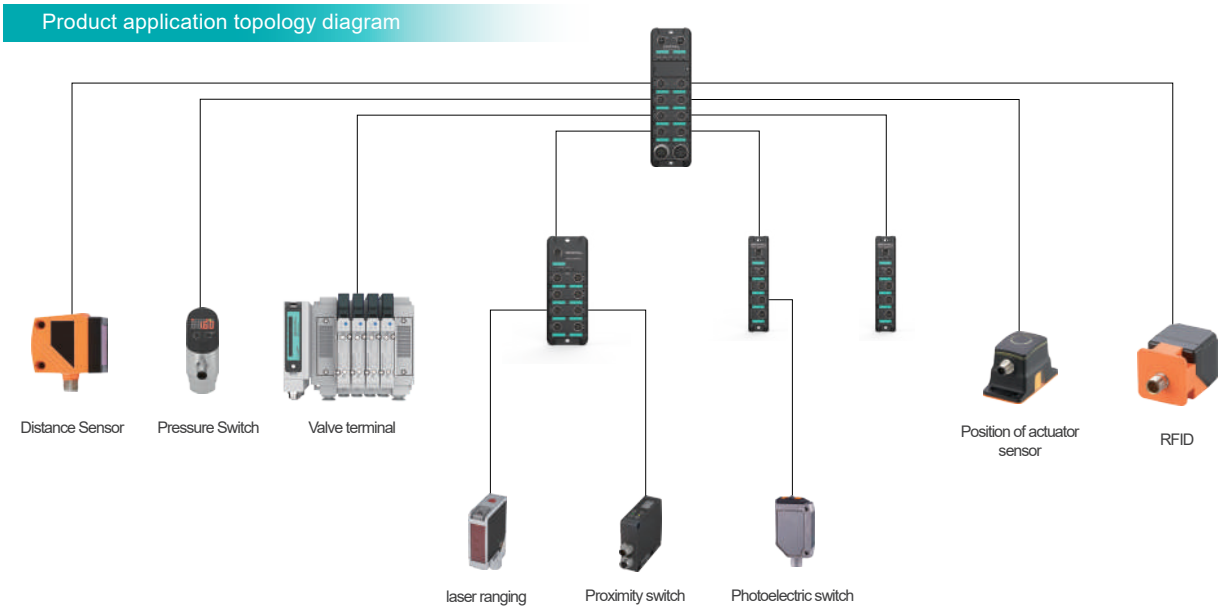
- Quick wiring with standard M12 connector
- Fully sealed design, waterproof and dustproof
- A single port can connect 2 signal points
- Installation outside the cabinet reduces the cost of engineering assembly

High protection, high reliability

- Waterproof, dustproof, earthquake resistant, wide temperature range (-40-70 °C) IP67 protection level



Product application topology diagram



Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959

DECOWELL

Integrated I/O

Economical all-in-one module

Compact structure | Stable performance | High cost performance

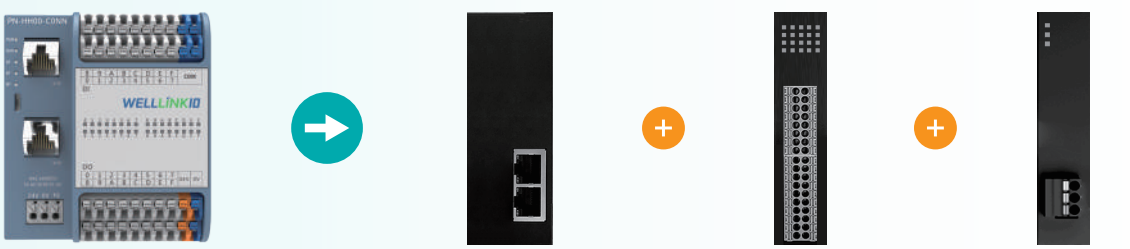
PROFINET | CC-Link | EtherCAT | DeviceNet | CANopen | EtherNet/IP | CC-Link IE Field Basic

Product Introduction

FS series integrated I/O is the most classic integrated bus I/O module from Decowell, featuring high cost-effectiveness, stable performance, compact structure, and simple wiring. Supports multiple communication protocols, such as PROFINET, EtherCAT, DeviceNet, CC Link, EtherNet/IP, CANopen, CC-LINK IE Field Basic, etc. A single module can support up to 32 signal points. The Ethernet communication interface is designed at a 45 degree angle, which can reduce the stress caused by long-term bending of the network cable on the network interface structure, and improve the reliability of the system. All terminals use PUSH-IN wiring terminals, greatly reducing the workload of on-site installation wiring and saving installation time.

Features

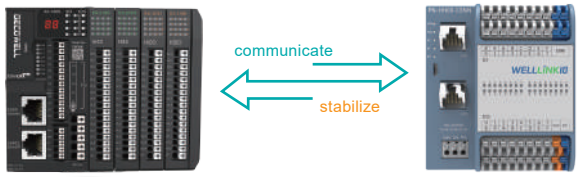
- Integrating power supply, adapter, and I/O module to simplify communication system design
- Integrated design reduces the complexity of wiring and connections, shortening installation and debugging time



Multiple configurations to choose from

8DI+8DO | 16DI+16DO | 32DI | 32DO

Stable communication and superior performance



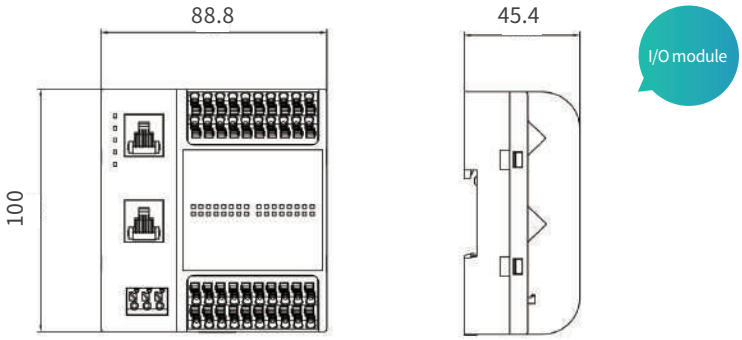
PUSH-IN terminal, quick installation

PUSH-IN large aperture terminal
quick wiring

45° interface design

The communication interface is designed at a 45 degree angle, Effectively reduce stress and improve equipment Stability and reliability

Product size



Application Cases

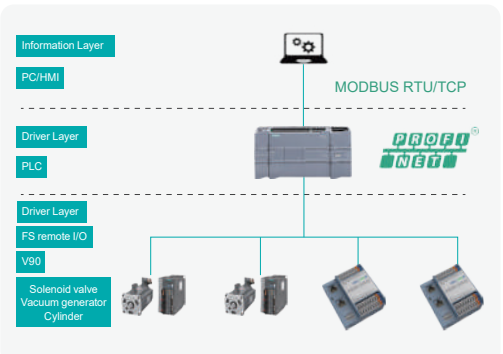
Semiconductor-Wafer Shifter I/O Device Applications

Solution

Master: Siemens 1200 series Application process section: Loadshifting machine
Project I/O Configuration: Digital 200 points

Application advantages	Digital input and output points complete the conveyor line task and improve the project communication stability

The SD series I/O modules feature an IP67 protection rating, ensuring superior dust and water resistance, making them suitable for deployment in harsh environmental conditions.
This system comprises a master station and slave stations, with the master station supporting leading fieldbus protocols, including PROFINET, EtherCAT, and EtherNet/IP. Additionally, the master station can connect to slave stations or sensors that comply with
the IO-LINK protocol. IO-LINK facilitates streamlined equipment installation and maintenance while providing extensive diagnostic functions that enable swift fault detection and resolution. This greatly enhances the overall performance and reliability of the system.



Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959

DECOWELL

Onboard I/O

PCB board mounted module

Flexible customization | Function integration | Reduced wiring

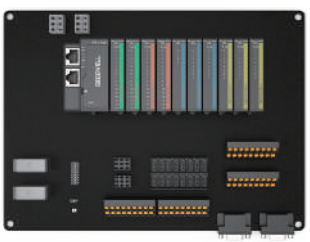
PROFINET | EtherCAT Technology Group | DeviceNet | CANopen | EtherNet/IP

Product Introduction

PT series onboard I/O modules are distributed expansion modules with flexible design developed by Decowell. This series of modules consists of adapters, I/O modules, and power modules. PT series onboard I/O can integrate various communication interfaces and functions through customized baseboards, which can realize the miniaturization of control modules and reduce the labor cost of equipment installation and commissioning through prefabricated cables.

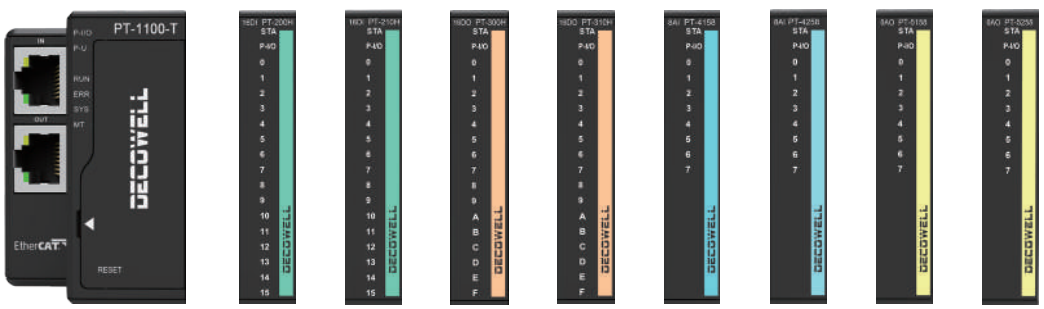
Features

01 PCB onboard I/O solution



- PCB base supports functions designed and developed by customers(Relays, interlocks, etc.)
- A variety of I/O modules are available.
- The PCB base plate can integrate the terminal blocks and prefabricate the cables in advance.Convenient wiring
- We can develop a complete set of solutions according to customer needs

02 Rich variety of modules



Bus adapter | Digital Input Modules | Digital output modules | Analog Input Modules | Analog output modules

Rich variety of modules

Satisfy various application scenarios

03 Plug-in modules

Modular design

Use plug-and-play to connect I/O modules, Adapters, PCB circuit boards, prefabricated cable junctions All in One

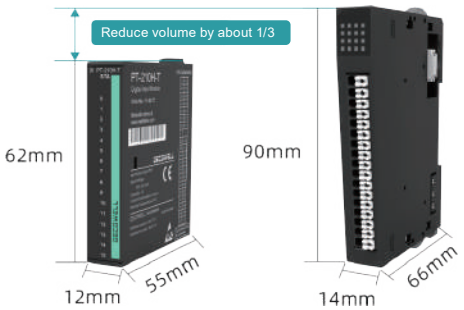
Type Design

Support digital/analog input and output

Free combination of modules

Can be directly inserted into the panel after the adapter is inserted
Different models ofdedicated I/O modules can be the wiring layeris relocated to the PCB backplane

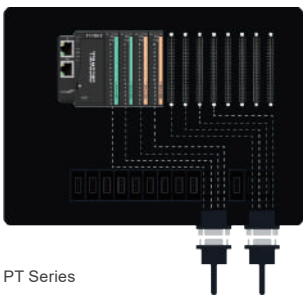
04 Compact structure



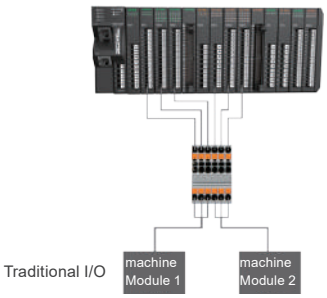
The module is very compact, with dimensions of 12 × 55 × 62 mm.

"Its volume is approximately one-third smaller than EX series modules, significantly reducing the footprint of customer equipment."

05 Simplify wiring



PT Series



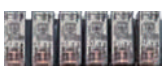
Traditional I/O

Standardized module design is adopted to reduce the testing cost during mass production of machines.

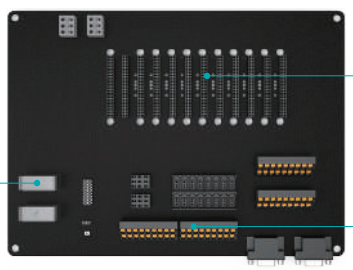
Customers can make prefabricated cables according to their needs for quick installation, while reducing the risk of incorrect wiring, saving working time and thus saving costs.

Customers can match I/O modules according to theirneeds. Custom terminals and special functional requirements are integrated on PCB On the board, realize rapid customization requirements

06 Flexible customization



Special functional requirements
(according to Integration of user needs)

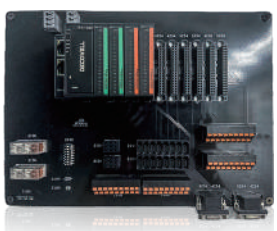


Adapters and I/O modules

Customized Terminals

"Customers can select I/O modules based on their specific needs.
Custom terminals and specialized functionalities are integrated directly onto the PCB, enabling fast customization to meet unique requirements."

Special functions: (e.g. interlock, relay output,Power supply, etc.)



Customized product display 1

Customized product display 2

Customized product display 3

Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

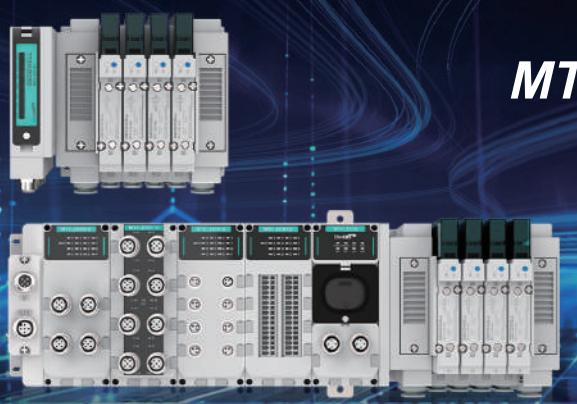
Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959

DECOWELL

Bus Valve Terminals



MTC series bus Valve Terminals

High protection | Simplified wiring | Flexible expansion | Rich diagnosis

PROFINET | EtherCAT Technology Group | CC-Link | ModbusTCP | CC-Link IE Field Basic | EtherNet/IP | WellBUS | IO-Link

Product Introduction

The MTC series valve terminals is our third-generation bus valve island, featuring an IP67 protection rating and support for solenoid valve and I/O module expansion. This integrated solution combines solenoid valves, adapters, I/O modules, silencers, and connectors into a single unit, significantly reducing assembly and wiring time compared to traditional solenoid valve setups.

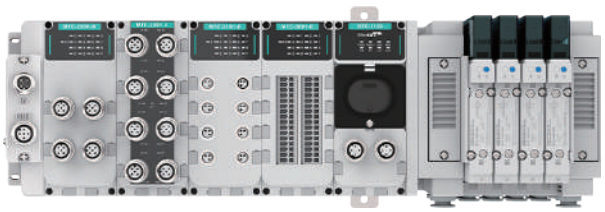
Advanced diagnostic capabilities allow for quick issue identification, while high-performance solenoid valves ensure stable equipment operation, offering customers enhanced efficiency and reliable protection.

Features

01 The Valve Terminals is available in two versions: compact and expandable

Compact

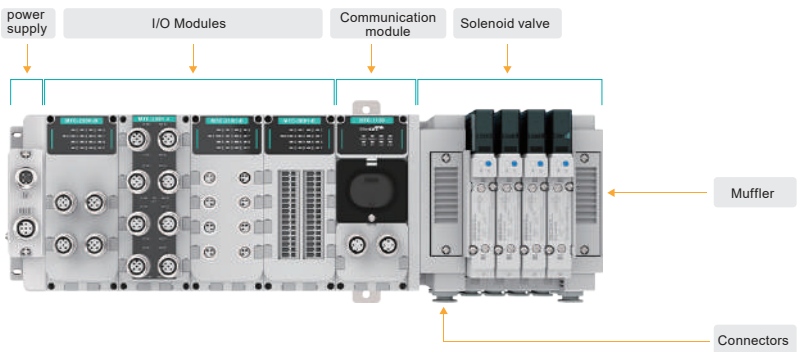
Suitable for Limited space, compact size, easy installation



Extension Exhibition Type

The I/O modules offer flexible expansion options to accommodate a wider range of application requirements.

02 Functional Integration



One model covers all module accessories

- Save time in selection
- Simplified wiring
- IP67 protection
- Wide temperature range-10~60℃

03 A diverse range of interface types to accommodate broader application requirements.

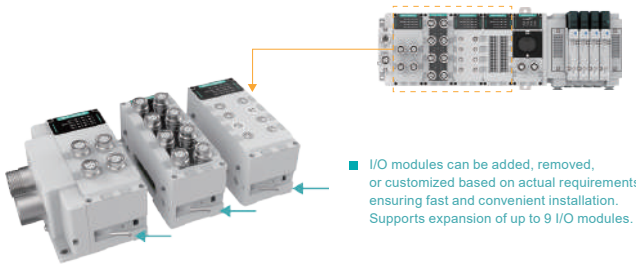
- Various interface types: M12 interface, M8 interface, European terminal (A dust cover can be added for installation outside the cabinet)

M12 interface

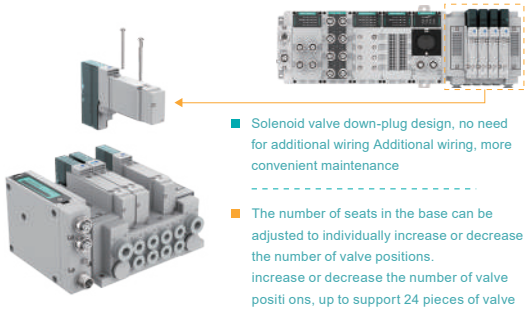
M8 interface

European terminal

04 Flexible expansion



- I/O modules can be added, removed, or customized based on actual requirements, ensuring fast and convenient installation. Supports expansion of up to 9 I/O modules.



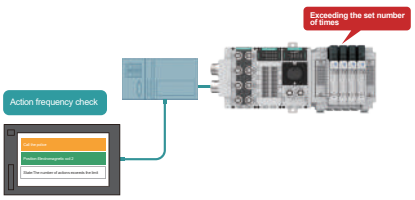
- Solenoid valve down-plug design, no need for additional wiring Additional wiring, more convenient maintenance
- The number of seats in the base can be adjusted to individually increase or decrease the number of valve positions. increase or decrease the number of valve positi ons, up to support 24 pieces of valve position ex pansion

05 I/O modules support multiple signal types

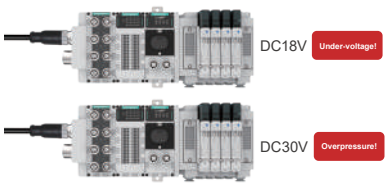
Digital quantity		Analog		IO-Link		Temperature Module	
Temperature Sensor	Electric proportional valve	Relay	Button	sensor	Valve island	Thermal resistor	Thermocouple
Pressure Sensors	Flow Sensors	Magnetic switch	Proximity switches				

06 Enriched diagnosis

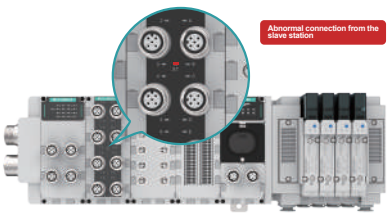
- Supports solenoid valve short circuit and open circuit detection, solenoid valve action times detection, solenoid valve/system voltage over limit, and slave station status detection



Solenoid valve action times detection



Solenoid valve/system voltage out of limit



Slave status detection

07 Ultra-high performance solenoid valve

- The action life can reach 80 million times, reducing equipment maintenance;
- The response time of the solenoid valve is 20ms, the maximum operating frequency is 15HZ, and it responds quickly;
- The coil power is only 0.6w, generating less heat and being more energy-efficient;
- IP67 protection level, fully functional, suitable for more application scenarios.
- 300mm/s maximum can drive 63mm cylinder, 100mm/s maximum can drive 125mm cylinder Strong circulation capacity, maximum flow rate of 750L/min
- No external emissions, suitable for high demand environments such as food, medicine, chips, etc

Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959

DECOWELL

Discrete I/O

Discrete wiring saving module

Save wiring | Flexible layout | High anti-interference

PROFINET | CC-Link | EtherCAT Technology Group | WellBUS | CC-Link IE Field Basic | EtherNet/IP

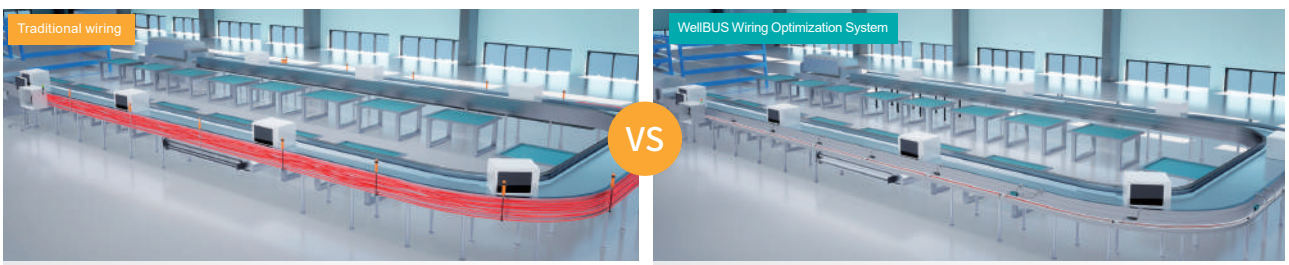
Product Introduction

The LS series products from Decowell leverage the proprietary WellBUS bus system, offering a streamlined wiring solution tailored for discrete applications. The entire system utilizes a dual-core power cable for both power and signal transmission, effectively addressing the longstanding challenges of complex wiring and extensive cable management associated with long-line equipment in logistics and warehousing environments.

Employing power carrier technology, LS products transmit signals efficiently while the slave stations supply power to the sensors, thereby simplifying the wiring process and minimizing both cable usage and labor costs. Additionally, these products are equipped with advanced diagnostic capabilities, including detection of undervoltage, overvoltage, and disconnection issues, enabling rapid problem identification, reducing downtime, and enhancing overall production efficiency.

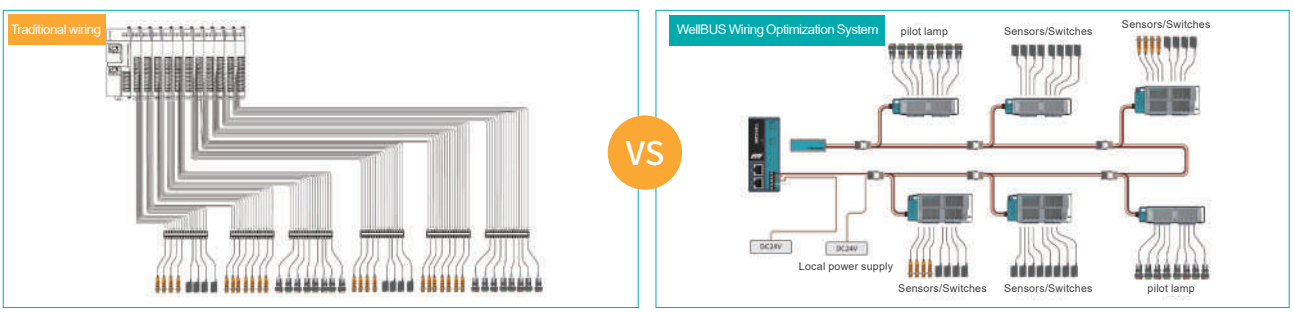
Features

01 WellBUS Wiring Optimization System for Discrete Applications - Minimalist Wiring Solution



- Complex wiring and high wiring time cost
- Additional terminal blocks and power cables are required, which increases costs
- High quality requirements for construction personnel (installation, commissioning)
- Difficult troubleshooting and high maintenance costs

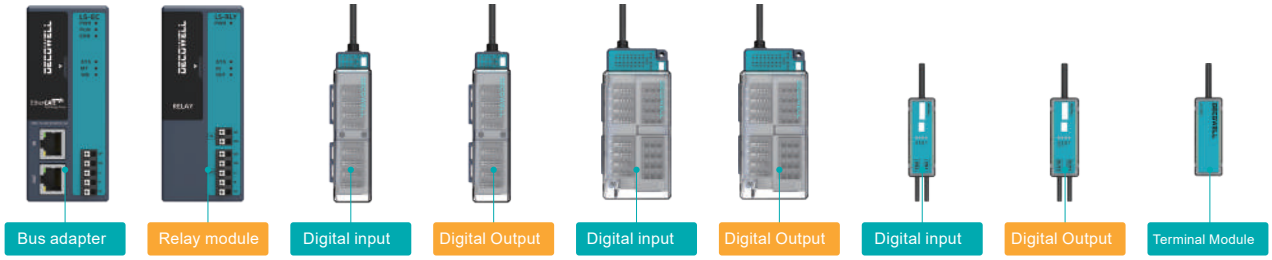
- Simple wiring, saving wiring time and cost
- The substation module provides load power supply, eliminating the cost of terminal blocks and power lines
- Easy installation and debugging, can be quickly installed
- Equipped with diagnostic function, quickly locate problems, and efficiently maintain



The wiring of the load is transferred to the I/O module through the terminal block, which involves a large amount of work and complicated wiring

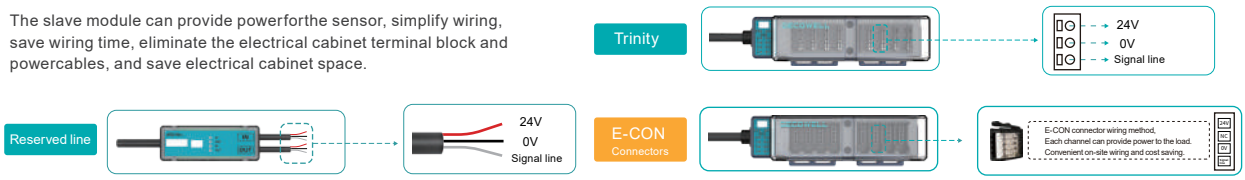
One cable connects all the stations on site, allowing for rapid prototyping of the equipment

02 Rich module types to meet various application scenarios



03 The slave station provides power supply for the sensor, eliminating the need for terminal blocks and power cables

The slave module can provide powerforthe sensor, simplify wiring, save wiring time, eliminate the electrical cabinet terminal block and powercables, and save electrical cabinet space.



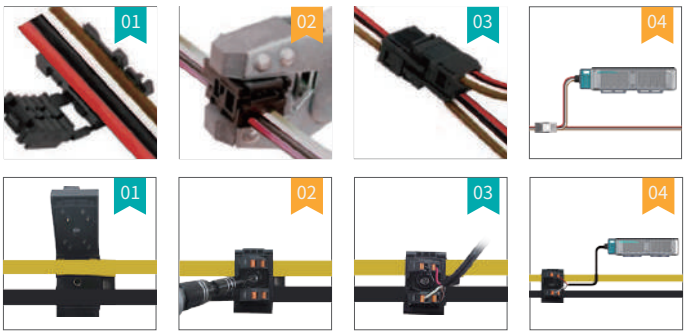
04 Simple wiring, quick installation, and reduced wiring errors

FOUR-CORE FLAT CABLE CONNECTION

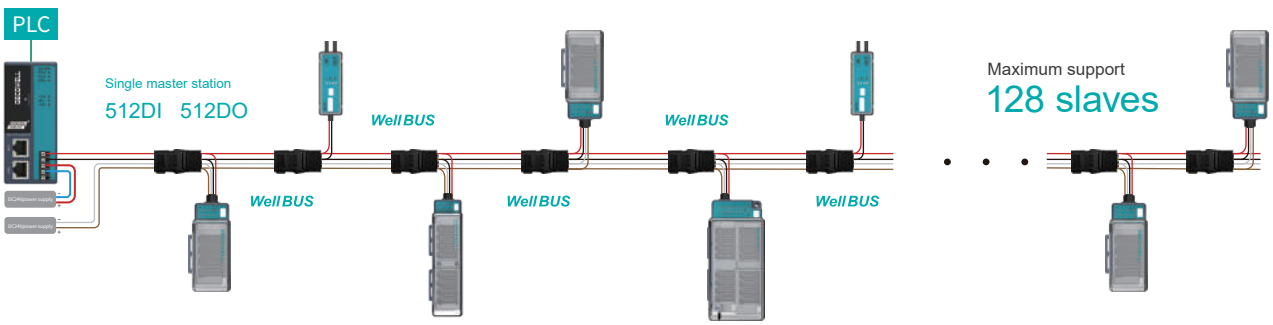
1.Use a dedicated stripping-free connector and place the cables in the corresponding cable trough.
2.Use a special crimping tool to crimp the strip-free connector.
3.Push both ends together until the connector locks.
4.Wiring is complete.

TWO-CORE SHEATHED CABLE

1.Use a dedicated junction box and place the cables in the corresponding cable trough.
2. Use a screwdriverto tighten thejunction box.
3.Connect the slave station leads to the junction box.
4.Wiring is complete.



05 Reliable and easy to use, powerful performance and complete functions



- A single masterstation supports up to 128 Slave
- A single master station can carry up to 512 input points + 512 output points
- Wire break detection, short circuit protection
- Minimum scanning cycle 2ms
- Maximum supported communication distance 200 rice
- Short circuit protection, power supply overvoltage and undervoltage protection
- Host computer configuration software:Support monitoring slave status; slave addressing; slave management

Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959

DECOWELL

Integrated I/O

Multifunctional all-in-one module

Modular design | Multiple signal types | Compact structure

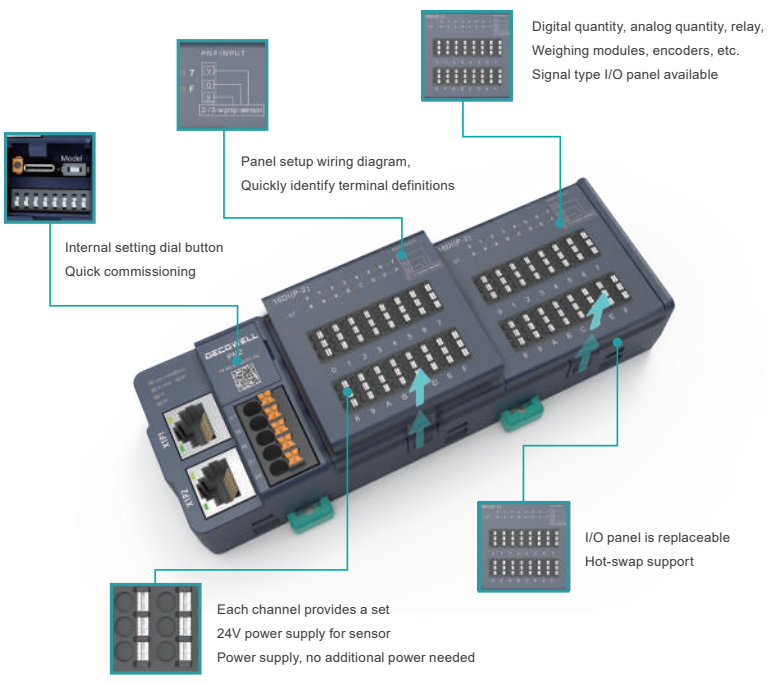
PROFINET | CC-Link | EtherCAT | DeviceNet | IO-Link | EtherNet/IP | CANopen | CC-Link IE Field Basic

Product Introduction

The RS series I/O integrates multiple functions, including bus communication, signal acquisition and output and input and output power supply. It is available in both single-slot and dual-slot configurations, accommodating requirements for 16 and 32 points, respectively. The I/O panel and communication base feature a split design, support hot-swap functionality, and allow for the mixed use of different signal types and terminals. The I/O panel supports various signal types, such as digital signals, analog signals, relays, and weighing modules. Additionally, it offers three types of terminals: European terminal, Trinity, and E-CON connections, which can be utilized for powering sensors. Compared to traditional I/O modules, the RS series occupies less space and is equipped with a protective cover that allows for external cabinet installation in non-hazardous environments. The highly integrated design and flexible configuration of the RS series integrated I/O provide efficient and reliable solutions for modern industrial automation.

Features

01 Modular design/Any combination as needed



02 Small size saves space

save **60%** Installation space

Traditional layout

RS Layout

Independent power port for each channel

Can supply power to sensors and provide COM ports for output

No need to configure terminal blocks separately

03 Supports a variety of terminal types and supports long and short bases

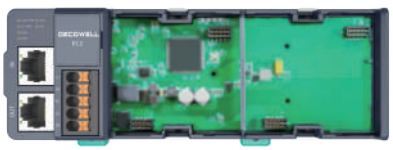
Trinity European terminal

Single row European terminal

E-CON connector

panel

Short S1

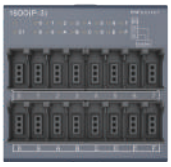


Long S2

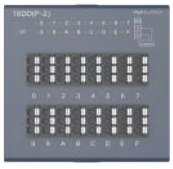
base

04 Rich module types to meet various application scenarios

- Rich I/O panel types, DI/DO/AI/AO/relay

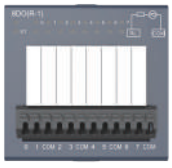


Digital E-CON



Digital 3-bit European terminal

Digital single row European terminal



Relay

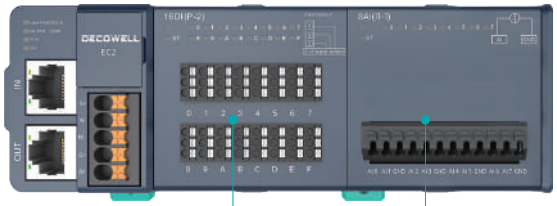
Analog

05 Flexible signal type configuration with freely selectable panels in the dual-slot model

- Any combination of signal types makes the system more flexible

Digital quantity + digital quantity	Digital quantity + analog quantity
Relay + analog	.....

Note: The panel terminal types of different signal types are slightly different. Please contact the technicians when purchasing the product.



Digital quantity	Analog	Digital quantity	Analog
Relay	Weighing Module	Relay	Weighing Module
Support more types of customization		Support more types of customization	

Application Cases

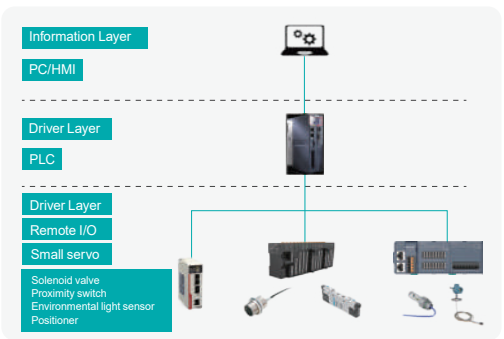
Semiconductor - I/O device application of IC die bonder

Solution

Main site: Cuiou MC664 Applicable process section: IC packaging inspection
Project I/O configuration: RS series multi-function integrated I/O, EX series card I/O

Application Advantages	Provide customers with standardized solutions, so that a single workstation can use the same series of I/Os to improve the overall efficiency of the project

Project Overview: Two series of remote I/O, RS integrated and EX card-type, are used in this equipment. The digital signal is mainly used for the arrival signal of each point on the material tray. The solenoid valve and gripper analog module corresponding to the output signal are mainly used for the motor drive of the material tray.



Nanjing Decowell Automation Co., Ltd.

Address: Building 13, Ruichuang Intelligent Manufacturing Park, No. 19 Lanxin Road, Pukou District, Nanjing

Website:www.njdecowell.com

Email:contact@njdecowell.com

+86-25-58207959