

C SERIES REMOTE I/O SYSTEM FOR MULTIPLE & FLEXIBLE APPLICATION



Sichuan Odote Automation System Co., Ltd.

Odote Automation founded in 2003, has 20 years of experience in automation control and industrial communication technology. As a national high-tech enterprise specialized in industrial communication product R&D, industrial automation control system design, integration and technical services, the company has passed ISO9001 certification, intellectual property management system standards certification, which is a member of PROFIBUS & PROFINET Association (PICHina), EtherCAT Technology Association, CC-Link, OPC, CCIA, Industrial Internet Alliance and other associations.

Our products range covers from IO module, PLC, Protocol Converter, Industrial Switch, IIOT Gateway, etc., the company could provide deep tailored customized services.

We could provide smart factory data collection services, assist to realize the communication between the control layer and the upper management software (MES, ERP, SCADA, etc.), so that enterprise managers can grasp the real data on the production site in the first time, and take a solid step for the implementation of smart manufacturing.

ODOT products has successfully using professional field data collection solutions for Automative ,New Energy(Lithium battery, Wind Power, Photovoltaic/Solar), Textile enterprises, Automobile Cell enterprises, Cereal & oil processing enterprises, Food and Beverage producing enterprise, Water Treatment, Power Management, Hydro Power Station, Liquor Producing Enterprises etc.

Our Sales and Service network all over the global countries. There are more than 100 distributors. By participating in the China International Industry Fair and Automation Industry exhibitions in Germany, Italy, Spain, Malaysia, India, Turkey, Japan, Vietnam, Brazil, etc .

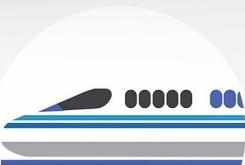
We are always happy to provide value added services to beyond customer requirements and expectations. we keep Innovation and development more products with "Applied, Aesthetic, Affordable" and in-depth tailored services to meet customer requirements .

C series – the remote I/O system consists of network adapter module and extended IO module. The network adapter module is responsible for fieldbus communication, and it could realize the communication with the master controller or host computer software.

C SERIES REMOTE I/O SYSTEM



NETWORK ADAPTER



IO MODULE

PROFINET
ETHERNET

CC-Link

Modbus

EtherNet/IP

DeviceNet

PROFINET
IBUS

CC-LinkIE

ETHERNET POWERLINK

EtherCAT

CANopen

- ◆ The product carries ultra-thin design for space saving
- ◆ Spring terminal design for convenient and fast wiring
- ◆ Industry's self designed guide light terminal design.
- ◆ High-speed 12M CANBUS backplane carrying 32 modules of a refreshing period at 2ms
- ◆ The IO system could carry max.of 32 pcs of IO modules



PLC



CARDS FOR BOXIO

BN-8011	Modbus-RTU slave, 1 way RS485, the sum of input and output max of 8192Byte, supports function codes 1, 2, 3, 4, 5, 6, 15, 16, 23
BN-8021	CANopen slave, Device specification: DS 401,64 TPDO, 64 RPDO, sum of inputs max of 512 bytes, sum of outputs max of 512 bytes
BN-8031	Modbus-TCP server, 2 Ethernet ports, 10/100Mbps, input and output bytes max of 8192 bytes
BN-8032-L	Profinet slave, 2 Ethernet ports, 10/100Mbps, sum of inputs max of 1440Byte, sum of output max of 1440Byte, (No MRP & no IRT)
BN-8033	EtherCAT slave, 2 Ethernet ports, 10/100Mbps, sum of inputs max of 1024 Byte, sum of output max of 1024Byte
BN-8034	EtherNET/IP slave, 2 Ethernet ports, 10/100Mbps, sum of inputs max of 504 Byte, sum of output max of 504Byte
BT-124F	16 channels / digital input, source & sink /NPN&PNP/ 24VDC, supports counter frequency up to 200Hz
BT-221F	16 channels / digital output / sink / NPN / the output low level is valid, 24Vdc/0.5A
BT-222F	16 channels / digital output / source / PNP /,the output high level is valid, 24Vdc/0.5A
BT-3158	8 channels voltage input, 0~5VDC/0~10VDC/±5VDC/±10VDC, 12-bit, input accuracy :±0.3% (full scale @25°C), ±0.5% (full scale @-40°C~85°C)
BT-3168	8 channels voltage input, 0~5VDC/0~10VDC/±5VDC/±10VDC, 16 bit, input accuracy :±0.3% (full scale @25°C), ±0.5% (full scale @-40°C~85°C)
BT-3238	8 channels / current input / 0&4~20mA, 16 bit single-ended, input accuracy: ±0.3% (full scale @25°C), ± 0.5% (full scale @-40°C~ 85°C)
BT-3244	4 channels/current input /0&4~20mA,±20mA, 16-bit, single-ended bipolar, input accuracy ± 0.3% (full scale @25°C), ±0.5% (full scale @-40°C~85°C)
BT-3714	4 channels thermal resistance input, RTD-PT100, input accuracy :±0.1% (full scale @25°C)
BT-3724	4 channels thermal resistance input, RTD-PT1000, input accuracy :±0.1% (full scale @25°C)
BT-3804	4 channels thermocouple input, TC-J/K/E/T/S/R/B/N type, fixed filtering parameters, input accuracy :±0.3% (full scale @25°C), ±0.5% (full scale @-40°C~85°C)
BT-4154	4 channels voltage output, 0~5VDC/0~10VDC/±5VDC/±10VDC, 16-bit, output accuracy :±0.1% (full scale @25°C), ±0.3% (full scale @-40°C~85°C)
BT-4234	4 channels current output, 0&4~20mA, 16-bit, single-ended, output accuracy :±0.3%
BT-5102	2 channels orthogonal/pulse encoder input, 5V single-ended, 1.5MHz
BT-5112	2 channels orthogonal/pulse encoder input, 24V single-ended, 1.5MHz
BT-5121	1 channel SSI encoder input, 5V differential, 2MHz
BT-5141	1 channel orthogonal/pulse encoder input, 5V differential, 10MHz
BT-623F	8 channels DI, source & sink /NPN&PNP 24VDC, 8 channels DO / source & PNP 24Vdc/0.5A

- ◆ BOXIO-32 carries 1 communication board and 2 IO slots; BOXIO-64 carries 1 communication board and 4 IO slots;
- ◆ The communication protocols with Modbus-TCP, PROFINET, EtherCAT,CANopen, EtherNet/IP are optional for the communication board;
- ◆ Slots 1/2/3/4 can be independently selected according to customer IO requirements, and a single module supports up to 16 channels;
- ◆ With LCD display, you can view information such as communication parameters, IO channel status, module version, etc.;
- ◆ ABS resin shell, small size, easy to install;
- ◆ Support DIY



- ◆ Supports protocol conversion between Modbus andPROFINET
- ◆ Supports 2* RS485/RS232 or 1*RS422
- ◆ Supports Modbus master or slave, and supports RTU or ASCII
- ◆ Supports working temperature of -40°C~85°C
- ◆ Supports data area: 2 serial Modbus-RTU/ASCII to PROFIBUS gateway with Max. input 1440 bytes and Max. output 1440 bytes
- ◆ Supports one key reset

- ODOT-PNM02 V2.0 / V2.1: Modbus-RTU/ASCII To Profinet Converter
- ODOT-S4E2: 4 Serial Modbus-RTU/ASCII To Modbus-TCP Converter
- ODOT-S2E2: 2 Serial Modbus-RTU/ASCII To Modbus-TCP Converter
- ODOT-DPM01: Modbus-RTU To PROFIBUS-DP Converter
- MG-CANEX : CANopen To Modbus-TCP Converter
- ODOT-S1E1 V2.0: Serial Gateway
- ODOT-S7MPIV2.0: PPI/MPI/PROFIBUS Interface to EtherNet

PROTOCOL CONVERTER



- ◆ All supports IEEE802.3/802.3u/802.3x/802.3z
- ◆ Supports broadcast storm protection
- ◆ Working temperature range: -20°C~70°C;
- ◆ 5/8/16 ports unmanaged Ethernet Switches DIN-rail
- ◆ 10/100/1000 Mbps self-adaption,(Auto-MDI/MDI-X)

- ODOT-MS105T: 5-port 10/100Mbps, 35mm DIN-rail
- ODOT-MS108T: 8-port 10/100Mbps, 35mm DIN-rail
- ODOT-MS116T: 16-port 10/100Mbps, 35mm DIN-rail
- ODOT-MS105G: 5-port 10/100/1000Mbps, 35mm DIN-rail
- ODOT-MS108G: 8-port 10/100/1000Mbps, 35mm DIN-rail

INDUSTRIAL SWITCH

Network adapter

P/N	Specifications
CN-8011	Modbus-RTU Network adapter, 32 slots, the Max. sum of input and output is 8192 bytes
CN-8012	Profibus-DP Bus adapter,32 slots, input Max. 244 bytes, outputMax. 244 bytes, the Max. sum of input & output is 288 bytes
CN-8013	CC-link Bus adapter,Rx/Ry: 896bytes ,RWr/RWw: 128Bytes
CN-8021	CANopen slave, 64 PDO, 64 RPDO, Power 24VDC
CN-8031	Modbus-TCP Network Adapter, 32 slots, input & output max 8192bytes
CN-8032 V.X	Profinet Network Adapter, 32 slots, input & output max 1440bytes, support IRT, support MRP
CN-8032-L	Profinet Network Adapter, 32 slots, input & output max 1440bytes, support RT, support no MRP redundancy, no IRT function
CN-8033	EtherCAT Network Adapter,32 slots, max. 1024 bytes input, max.1024 bytes output
CN-8034	Ethernet/IP Network Adapter, 32 slots, max. 504 bytes input, max. 504 bytes output

Remote I/O module

P/N	Specifications	P/N	Specifications
CT-1218	8 CH digital Input/24VDC/sink type, PNP	CT-4154	4 CH Voltage Output,0~5Vdc,-5~5Vdc,0~10Vdc,-10~10Vdc,16Bit
CT-1228	8 CH digital Input/24VDC/ source type, NPN	CT-4158	8 CH Voltage Output,0~5Vdc,-5~5Vdc,0~10-Vdc,-10~10Vdc,16Bit
CT-121F	16 CH digital Input/24VDC/sink type, PNP	CT-4234	4 CH analog output, 0& 4-20mA/16-bit
CT-122F	16 CH digital input, source, NPN, 24VDC	CT-5102	2 CH encoder/5V input/Quadrature decoding
CT-124H◆	32 CH digital input, sink or source, 34Pin male connector, 24Vdc	CT-5112	2 CH encoder/24V input/Quadrature decoding
CT-221F	16 CH digital Output/24VDC/0.5A/sink type, NPN	CT-5122	2 CH encoder/SSI input
CT-222F	16 CH digital Output, source, PNP, 24Vdc/0.5A	CT-5142	2 CH encoder/differential input/quadrature decoding
CT-2224	4CH digital output .Source type, single channel Max output. 3.3a /4 channel with Max output, 2A per channel	CT-5321	Serial port communication sub-module (Option RS232, RS485,RS422), supports modbus-RTU /ASCII,master or slave , transparent transmission mode
CT-2228	8 DO, Digital Output ,source,PNP,24Vdc/0.5A	CT-5331	CANopen master,Max supports 128 PDO
CT-222H◆	32DO PNP 24Vdc@0.5A, 34Pin male connector,the output high level is valid	CT-5711	Fieldbus Extended Master Module
CT-2718	8 CH Relay Output , (9~30Vdc@2A,110Vac@0.55A, 250Vac@0.25A)	CT-5721	Fieldbus Extended Slave Module
CT-3168	8 CH Analog Input,0~5Vdc,-5~5Vdc,0~10Vdc,-10~10-Vdc,15 bits/16 bits,Single-end	CT-5801	Terminal module, take no module channel
CT-3238	8 CH analog input/ 0 & 4-20mA/15-bit	CT-623F	8 CH DI/ 24VDC / source or sink type & 8CH DO/24VDC/ source type, single output channel max current 500mA
CT-3234	4 CH analog input/ 0 & 4-20mA/15-bit	CT-7100	Field Expansion power Supply,24Vdc/8A,No need configure
CT-3268	8 CH analog input/0 ~20mA /-20~0mA /±20mA /15-bit, single ended	CT-7220	Expansion power Supply(System power input 24Vdc,Output 5Vdc/2A,Field power input 24Vdc,Output 24Vdc/8A)
CT-3713	3 CH Analog Input,RTD(PT100) ,Accuracy ≤0.5 C,no channel Isolation	CT-730F	18 CH filed power distribution module 0V
CT-3716	6 CH Analog Input,RTD(PT100),Accuracy ≤0.5 C,no channel Isolation	CT-731F	18 CH filed power distribution module 24V
CT-3723	3CH Analog Input,RTD(PT1000),Accuracy ≤0.5 C,no channel Isolation	CT-732F	18 CH filed power distribution module PE
CT-3734	ct-3734:4 channels Analog Input,RTD(PT100), Accuracy %E2%89%A40.5%E2%84%83, with channel isolation	CT-7339	18 CH filed power distribution module 9*24V/9*0V
CT-3804	4 CH Analog Input,Thermocouple	CT-7346	18 CH filed power distribution module 6*24V/6*0V/6*PE
CT-3808	8 CH Analog Input,Thermocouple		

◆ Product, support 2.54mm pitch 20P/34P in-line male connector, you need to choose the connector and wiring, please consult our sales

Leading Automation IO Solution Provider

Address:No. 204 MianYang Comprehensive Bonded Zone , MianYang city ,Sichuan, China ,621000 .

Website: www.odotautomation.com

E-mail: sales@odotautomation.com

Tel:+86-0816-2538289

Mobile:+86-13881129571



Official Website



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