

C SERIES REMOTE I/O SYSTEM

FOR MULTIPLE & FLEXIBLE APPLICATION



Odot Automation System Co., Ltd.

Founded in 2003, Odot Automation 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 and 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.

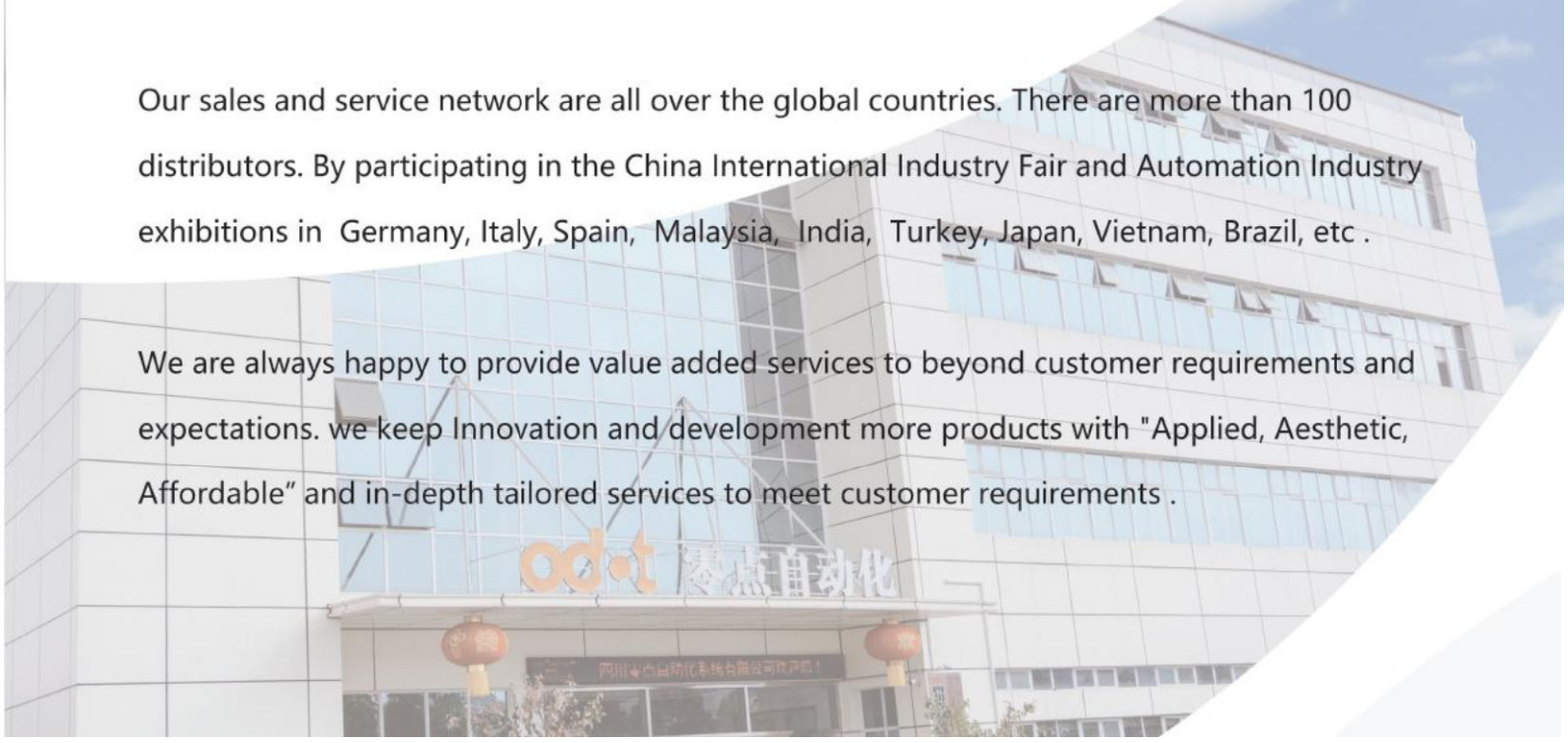
Our products range covers from IO module, PLC, Protocol Converter, Industrial Switch, Gateway, etc., and the company could provide deep tailored customized services.

ODOT 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 automation has successfully provided professional field data collection solutions for Automotive, 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 are 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 IO 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.

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NETWORK ADAPTER



IO MODULE



- ◆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



P/N	Specifications	P/N	Specifications
I/O Network adapter			
CN-8011	Modbus-RTU slave	CN-8031	Modbus-TCP server
CN-8012	Profibus-DP slave	CN-8032-L	Profinet slave/NO MRP&IRT
CN-8013	CC-link slave	CN-8033	EtherCAT slave
CN-8021	CANopen slave	CN-8034	Ethernet/IP slave
CN-8022	DeviceNET slave	CN-8037	CC-Link IE Filed Basic slave
Remote I/O module			
CT-1218	8 DI 24VDC/sink type, PNP	CT-3734	4 AI (RTD-PT100) with channel isolation, Input accuracy :±0.1%(full scale @25℃)
CT-1228	8 DI 24VDC/ source type, NPN	CT-3744	4 AI (RTD-PT1000) , Input Accuracy:±0.1%(full scale@25℃) , channel isolation
CT-121F	16 DI 24VDC/sink type, PNP	CT-3844	4 AI Thermocouple(TC-J/K/E/T/S/R/B/N)types,filter parameters can adjustable
CT-122F	16 DI 24VDC/source, NPN	CT-3848	8 AI Thermocouple(TC-J/K/E/T/S/R/B/N)types,filter parameters can adjustable
CT-124H◆	32 DI 24VDC/sink or source, 34Pin male connector	CT-4154	4 AO Voltage Output,0~5VDC,-5~5VDC,0~10VDC,-10~10VDC,16 bits
CT-124D	32 DI 24VDC/sink or source,PNP/NPN, supports count function, independent power supply	CT-4158	8 AO Voltage Output,0~5VDC,-5~5VDC,0~10VDC,-10~10VDC,16 bits
CT-125F	16 DI 24VDC/sink type,PNP, supports count function	CT-4234	4 AO 0& 4-20mA/16 bits
CT-126F	16 DI 24VDC/source type,NPN, supports count function	CT-5000	Dummy module , no wiring and no channels
CT-1314	4 DI 220VDC,channel isolation,supports count function	CT-5102	2 CH encoder/5V input/Quadrature decoding
CT-221F	16 DO 24VDC/0.5A/source type, NPN	CT-5112	2 CH encoder/24V input/Quadrature decoding
CT-222F	16 DO 24VDC/0.5A/sink type, PNP	CT-5122	2 CH encoder/SSI input
CT-225F	16 DO 24VDC@0.5A/sink type, PNP, independent power supply	CT-5142	2 CH encoder/differential input/quadrature decoding
CT-226F	16 DO 24VDC@0.5A/source type, NPN, independent power supply	CT-5224	4 DI, source & sink / NPN&PNP/24VDC, independent power supply; 4 DO, source type / PNP / 24VDC/0.5A, independent power supply; 4-channel PWM output module, 24V Single-ended; Stepped output frequency ≤ 60KHz
CT-2218	8 DO 24VDC@0.5A/source type, NPN	CT-5321	Serial port communication sub-module , supports modbus-RTU /ASCII, master or slave , transparent transmission mode
CT-222D	32 DO 24VDC@0.5A/source type, PNP, independent power supply	CT-5331	CANopen master,Max supports 128 PDO
CT-2224	4 DO 24VDC@2.2A/source type, NPN,independent power supply	CT-5341	Profibus-DP master
CT-2228	8 DO 24VDC/0.5A/source,PNP	CT-5711	Fieldbus Extended Master Module
CT-222H◆	32 DO 24VDC@0.5A/ PNP,34Pin male Connector	CT-5721	Fieldbus Extended Slave Module
CT-2738	8 AO relay output, with RC & flyback diode, & channel isolation, 1A@30VDC(Inductive load & Resistive load)	CT-5801	Terminal module, take no module channel
CT-2754	4 AO relay output, with RC & flyback diode, & channel isolation, 3A@30VDC(Inductive load & Resistive load)	CT-623F	8 DI 24VDC / source or sink & 8 DO 24VDC/ source
CT-2794	4 AO relay output, 2A@250V AC (Resistive load), 1A@250V AC (Inductive load)	CT-7100	Field Expansion power Supply,24VDC/8A
CT-3168	8 AI 0~5VDC,-5~5VDC,0~10VDC,-10~10VDC, 16 bits,Single-end	CT-7220	Expansion power Supply(System power input 24VDC,Out put 5VDC/2A/Field power input 24VDC,Output 24VDC/8A)
CT-3238	8 AI 0&4-20mA/15 bits	CT-7221	Expansion power Supply(System power input 24VDC,Out-pu 5VDC/2A/Field power input 24VDC,Output 24VDC,Output 24VDC/8A)(need slot occupied)
CT-3234	4 AI 0&4-20mA/15 bits	CT-730F	18 CH filed power distribution module OVDC
CT-3268	8 AI 0~20mA /-20~0mA /±20mA /16 bits,single ended	CT-731F	18 CH filed power distribution module 24VDC
CT-3713	3 AI RTD(PT100) , Accuracy ≤0.5℃,no channel Isolation	CT-732F	18 CH filed power distribution module PE
CT-3716	6 AI RTD(PT100),Accuracy ≤0.5℃,no channel Isolation	CT-7339	18 CH filed power distribution module 24VDC/0VDC
CT-3723	3 AI RTD(PT1000),Accuracy ≤0.5℃,no channel Isolation	CT-7346	18 CH filed power distribution module 24VDC/0VDC PE
CT-3724	4 AI 0&4~20mA,16 bits, Input Accuracy:±0.3%(full scale@25℃) ±0.5%(full scale@-40℃~85℃) , channel isolation		



- ◆BOXIO-32 carries 1 COMM board and 2 IO slots
BOXIO-64 carries 1 COMM board and 4 IO slots
- ◆The COMM protocols with Modbus-TCP, PROFINET, EtherCAT, CANopen, EtherNet/IP are optional
- ◆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, Easy view information COMM parameters, IO channel status, module version
- ◆ABS resin shell, small size, easy to install
- ◆Support DIY

B series integrated BOXIO

COMM board	
BN-8011	Modbus-RTU slave, 1RS485, the max sum of input & output 8192 bytes
BN-8021	CANopen slave, DS 401, 64 TPDO, 64 RPDO, max input 512 bytes, max output 512 bytes
BN-8031	Modbus-TCP server, 2xRJ45, 10/100Mbps, the max sum of input & output 8192 bytes
BN-8032-L	Profinet slave, 2xRJ45, 10/100Mbps, max input 1440 bytes, max output 1440 bytes
BN-8033	EtherCAT slave, 2xRJ45, 10/100Mbps, max input 1024 bytes, max output 1024 bytes
BN-8034	EtherNET/IP slave, 2xRJ45, 10/100Mbps, max input 504 bytes, max output 504 bytes
I/O Card	
BT-124F	16 DI 24VDC source & sink /NPN&PNP/, counter frequency < 200Hz
BT-221F	16 DO 24VDC/sink/NPN
BT-222F	16 DO 24VDC/source / PNP
BT-3158	8 AI 0~5VDC/0~10VDC/±5VDC/±10VDC, 12 bits
BT-3168	8 AI 0~5VDC/0~10VDC/±5VDC/±10VDC, 16 bits
BT-3238	8 AI 0&4-20mA, 16 bits
BT-3244	4 AI 0&4-20mA, ±20mH, 16 bits
BT-3714	4 AI RTD-PT100 15 bits
BT-3724	4 AI RTD-PT1000 15 bits
BT-3804	4 AI TC-J/K/E/T/S/R/ B/N type, fixed filtering parameters
BT-4154	4 AO 0~5VDC/0~10VDC/±5VDC/±10VDC, 16 bits
BT-4234	4 AO 0&4-20mA, 16 bits, single-ended
BT-5102	2 CH orthogonal/pulse encoder input, 5V single-ended, <1.5MHz
BT-5112	2 CH orthogonal/pulse encoder input, 24V single-ended, <1.5MHz
BT-5121	1 CH SSI encoder input, 5V differential, <2MHz
BT-5141	1 CH orthogonal/pulse encoder input, 5V differential, <10MHz
BT-623F	8 DI 24VDC source & sink /NPN&PNP/, 8 channels DO / source & PNP 24VDC/0.5A



- ◆ Supports protocol conversion between Modbus & PROFINET
- ◆ 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
- ☐ ODOT-S4E2: 4 Serial Modbus-RTU/ASCII To Modbus-TCP
- ☐ ODOT-S2E2: 2 Serial Modbus-RTU/ASCII To Modbus-TCP
- ☐ ODOT-DPM01: Modbus-RTU To PROFIBUS-DP
- ☐ MG-CANEX : CANopen To Modbus-TCP
- ☐ 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
- ◆ 10/100/1000 Mbps self-adaption,(Auto-MDI/MDI-X)
- ◆ 35mm DIN-rail

- ☐ ODOT-MS105T: 5-port 10/100Mbps
- ☐ ODOT-MS108T: 8-port 10/100Mbps
- ☐ ODOT-MS116T: 16-port 10/100Mbps
- ☐ ODOT-MS105G: 5-port 10/100/1000Mbps
- ☐ ODOT-MS108G: 8-port 10/100/1000Mbps



INDUSTRIAL SWITCH

PROVIDING AUTOMATION SOLUTIONS



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