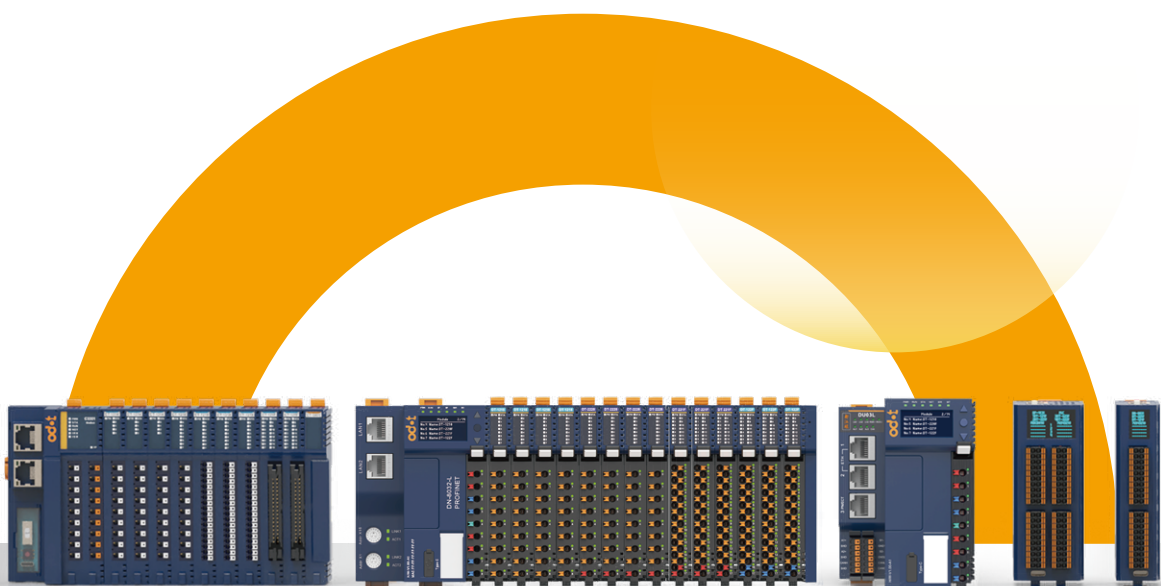




ODOT PRODUCTS CATALOG

FOR SMART & FLEXIBLE
AUTOMATION CONTROL SYSTEM



Sichuan Odot Automation System Co., Ltd.

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About Us

Founded in 2003, ODOT Automation brings over 22 years of expertise in automation control and industrial communication. As a national high-tech enterprise, we focus on R&D, system integration, and technical services. ODOT is ISO9001 certified and a member of PI China, EtherCAT, CC-Link, OPC, and other key alliances.

We offer IO modules, PLCs, protocol converters, industrial switches, gateways, and customized solutions.

ODOT enables smart factory data collection and seamless communication with MES, ERP, and SCADA systems, supporting real-time production monitoring and smart manufacturing.

Our solutions serve industries like automotive, new energy, textiles, food & beverage, water treatment, and power management.

With 100+ distributors worldwide and regular presence at global exhibitions, we deliver value-added, innovative, and cost-effective services tailored to customer needs.



ODOT Automation · DU03 Series

Medium-to-Large IEC61499 & IEC 61131-3 PROFINET */ EtherCAT/ Modbus Master PLC

Industry Revolution / Commercial Benchmark

Compliant with IEC 61499 Standard / IEC 61131-3 Standard

Supports motion control, built-in Web HMI functionality

Supports high-level languages, web-based programming

Supports PROFINET master and EtherCAT master



DU03L maximum load: 32 remote I/O slaves

► Master Optional, Comprehensive Protocols

Supports optional PROFINET and EtherCAT masters
Later can support more masters such as EtherNet/IP

► Industry Revolution, Commercial Benchmark

World's first IEC 61499 + PROFINET solution, supports commercial use
IEC 61499 Standard: Distributed, hardware-software decoupling, object-oriented design, etc.

► Ecosystem Sharing, Cost Reduction

Programming software free to use, helps enterprises reduce costs

► Equipped with AIOSYS

Digital open control software platform



DU03G*

Maximum load: 64 distributed I/O slaves



DU03P*

Maximum load: 128 distributed I/O slaves



DU03M*

Maximum load: 256 distributed I/O slaves

Note: "*" indicates "coming soon"

ODOT Automation · DU03 Series

Medium-to-Large IEC61499 & IEC 61131-3 PROFINET */ EtherCAT/ Modbus Master PLC

Product Models	DU03L	DU03G*	DU03P*	DU03M*
Product Appearance				
1. Structural Features				
Structure Type	Split Removable design	Split Removable design	Split Removable design	Split Removable design
Width*Height*Depth (mm)	83*119*80	116*119*80	140*119*80	165*119*80
Terminal Type	Plug-in spring-guided light terminals	Plug-in spring-guided light terminals	Plug-in spring-guided light terminals	Plug-in spring-guided light terminals
2. General Parameters				
Rated Value	24V DC	24V DC	24V DC	24V DC
Maximum Input Current	8A	8A	8A	8A
3. Software Standards				
Compliant Standards	IEC 61131-3, IEC 61499	IEC 61131-3, IEC 61499	IEC 61131-3, IEC 61499	IEC 61131-3, IEC 61499
4. Operating Performance *				
Bit Operations	Less than 3.5ns	Less than 2ns	Less than 0.5ns	Less than 0.3ns
Word Operations	Less than 7ns	Less than 4ns	Less than 0.5ns	Less than 0.3ns
Floating-point Operations	Less than 15ns	Less than 8ns	Less than 3ns	Less than 2ns
5. Memory Size *				
Data Memory	Not less than 20M Bytes	Not less than 20M Bytes	Not less than 80M Bytes	Not less than 150M Bytes
Program Memory	Not less than 160k step instructions	Not less than 260k step instructions	Not less than 500k step instructions	Not less than 1000k step instructions
6. Local Expansion Module Capacity				
Local Expansion Module Capacity	Not supported	Not supported	1 module	2 modules
7. Backplane Bus				
Dual Backplane Bus Redundancy	Supported	Supported	Supported	Supported
Backplane Bus Rate	16M bit/s	16M bit/s	16M bit/s	16M bit/s
Maximum Expansion Modules	32	32	32	32

Note: "*" indicates "coming soon"

Product Models	DU03L	DU03G*	DU03P*	DU03M*
8. Communication Interfaces				
RJ45 Interface >>				
Number of Interfaces	3	4	4	4
Cable Length	Maximum 100m between two stations (segment length)	Maximum 100m between two stations (segment length)	Maximum 100m between two stations (segment length)	Maximum 100m between two stations (segment length)
Transmission Rate	10/100 Mbit/s	10/100 Mbit/s	10/100 Mbit/s	10/100 Mbit/s
CAN Interface >>				
Number of Interfaces	1	2	2	2
Minimum Transmission Rate	10 kbit/s	10 kbit/s	10 kbit/s	10 kbit/s
Maximum Transmission Rate	1000 kbit/s	1000 kbit/s	1000 kbit/s	1000 kbit/s
RS485 Interface >>				
Number of Interfaces	2	2	2	2
Communication Rate	300bps~500Kbps	300bps~500Kbps	300bps~500Kbps	300bps~500Kbps
9. Other External Interfaces				
Display Screen	1.3 inch	2.4 inch	2.4 inch	2.4 inch
TF Card / Reset Button	Supported	Supported	Supported	Supported
Run/Stop Button	Not supported	Supported	Supported	Supported
10. Communication Capability				
PROFINET Master (Maximum PROFINET Slave Connections)	32*	64*	128*	256*
EtherCAT Master (Maximum EtherCAT Slave Connections)	32*	64*	128*	256*
Modbus TCP Client (Modbus Function Codes)	01/02/03/04/05/06/15/16/23	01/02/03/04/05/06/15/16/23	01/02/03/04/05/06/15/16/23	01/02/03/04/05/06/15/16/23
Maximum Modbus TCP Server Connections	32*	64*	80*	128*
OPC UA Server (Maximum OPC UA Client Connections)	16*	30*	50*	50*
CANopen Master (Maximum CANopen Slave Connections)	31 per channel	31 per channel	31 per channel	31 per channel
Modbus RTU Master (Maximum Modbus RTU Slave Connections)	31 per channel	31 per channel	31 per channel	31 per channel
CAN Pass-through / RS485 Pass-through / TCP/UDP Pass-through	Supported	Supported	Supported	Supported

Note: "*" indicates "coming soon"

Product Models	DU03L	DU03G*	DU03P*	DU03M*
11. Motion Control *				
Axis Types	Real axis, virtual axis	Real axis, virtual axis	Real axis, virtual axis	Real axis, virtual axis
Real Axis Types	EtherCAT servo axis, CANopen servo axis	EtherCAT servo axis, CANopen servo axis	EtherCAT servo axis, CANopen servo axis	EtherCAT servo axis, CANopen servo axis
Maximum Axis Control Quantity	16	32	64	128
Motion Control Algorithms	Speed control, position control, torque control, jog control, electronic gearing, electronic cam, linear interpolation, 2D & 3D linear, circular interpolation			
Synchronization Cycle	1ms 4 axes, 2ms 16 axes	500μs 4 axes, 1ms 16 axes, 2ms 36 axes	500μs 8 axes, 1ms 32 axes, 2ms 64 axes	250μs 8 axes, 500μs 32 axes, 2ms 128 axes
12. Software Features				
Software Name	AIOSYS	AIOSYS	AIOSYS	AIOSYS
Installation Environment	Cross-platform, supports server installation, local installation, PLC embedded, supports Linux system, Windows system			
Programming Method	Web-based programming, supports installation-free programming			
Programming Languages	FBD, LD, ST, C, C++, Python*			
13. Environmental Parameters *				
Horizontal (DIN rail horizontal) installation/ Vertical (DIN rail vertical) installation	-30℃~60℃	-30℃~60℃	-30℃~60℃	-30℃~60℃
Storage Temperature	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃
Protection Rating	IP20	IP20	IP20	IP20
14. Electromagnetic Compatibility (EMC) *				
EMC	Complies with IEC 61131-2 2017 relevant requirements			

Note: "*" indicates "coming soon"

ODOT Automation-D-Series

Removable Redundant Backplane Remote I/O



Removable Design · Easier Installation

Staggered layout spring-guided light terminals;
Terminals are pluggable, facilitating module maintenance and replacement

Status Visualization · Precise Positioning

Each module has independent diagnostic functions;
can diagnose module operating status and terminal status

Custom Development

OEM, ODM, or custom development for
special modules and functions available

Redundant Backplane · Enhanced Reliability

Backplane bus adopts automatic redundancy technology;
maximum I/O module load: 32 modules; full load refresh cycle: 0.6ms

Superior EMC Performance

Electrostatic discharge immunity, electrical fast transient
burst immunity, and surge immunity far exceed international
standard requirements

Multiple Scenarios · Fearless Challenges

Resistant to high and low temperatures,
adaptable to various industrial environments

Network Adapter Module

DN-8031	Modbus TCP Network Adapter
DN-8032-L	PROFINET Network Adapter
DN-8033	EtherCAT Network Adapter
DN-8034	EtherNet/IP Network Adapter
DN-8037	CC-Link IE Field Basic Adapter

Digital Input Module

DT-121F	16 Channels digital input module; 24VDC/PNP/high level is valid
DT-122F	16 Channels digital input module; 24VDC/NPN/ low level is valid
DT-1314	4 Channels digital input module; 110 VAC /220VAC

Digital Output Module

DT-221F	16 Channels digital output module; 24VDC/NPN/low level is valid
DT-222F	16 Channels digital output module; 24VDC/PNP/high level is valid
DT-2794	4 Channels relay output module; 2A@250VAC/30VDC (Resistive load), 1A@250VAC/30VDC (Inductive load)

Analog Input Module

DT-3168	8 Channels voltage input module; 0~5VDC/ 0~10VDC/ ±5VDC/±10VDC, 16-bit
DT-3238	8 Channels current input module; 0&4~20mA, 16-bit

Analog Input Module

DT-3364	4 Channels voltage input module; 0~5VDC/ 0~10VDC/ ±5VDC/ ±10VDC, 16 bits, channel isolation
DT-3434	4 Channels current input module; 0& 4~20mA, 16 bits, channel isolation

Temperature Acquisition Module

DT-3714	4 Channels RTD input module; RTD-PT100
DT-3804	4 Channels thermocouple input module; TC-J / K/ E / T / S / R / B / N Type

Analog Output Module

DT-4164	4 Channels voltage output module; 0~5VDC/ 0~10VDC/ ±5VDC/±10VDC, 16 bits
DT-4234	4 Channels current output module; 0&4~20mA, 16 bits

Terminal Module

DT-5800	End card-mandatory module, take no module channel
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Power Expansion Module

DT-7221	System power and field power expansion module; SV: 2A @5VDC /FV: 8A @24VDC
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ODOT Automation-B-Series

Cost-Effective Box CODESYS PLC

A PLC built based on the structure of the BOXIO

Integrated design; Supports 5 programming languages;

32/64 points selectable; Supports Modbus TCP communication;

Expansion IO module for B-Series PLC supports B-Series IO, 2/4 expansion IO cards



B2341

► Integrated Design, Originality Unlimited:

- (1) CODESYS programming environment
- (2) Supports 5 programming language: LD, IL, ST, CFC/FBD, SFC

► Small Data Point, Rich Versatility:

- (1) 32/64 I/O points optional
- (2) Designed for precisely cost down of small automation machinery

► Remote Deployment, Fast Response:

- (1) Distributed field deployment, to implement edge control
- (2) High speed backplane bus

► Easy to Program, Easy to Communicate, Easy to Master:

- (1) IEC61131-3 programming language
- (2) Supports Modbus TCP client and server
- (3) Self-developed core solution

Modular DIY I/O



- 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 D.I.Y.



COMM board

BN-8011	Modbus RTU slave function
BN-8021	CANopen slave function
BN-8031	Modbus TCP server function
BN-8031-6V	Modbus TCP server function, 8DI&8DO
BN-8031-68S	Modbus TCP server & Modbus RTU master function, 4DI&4DO
BN-8032	PROFINET slave function
BN-8033	EtherCAT slave function
BN-8034	EtherNet/IP slave function

I/O Card

BT-124F	16 channel / digital input / 24VDC / dual direction, the input high&low level is valid
BT-221F	16 channel / digital output / 24VDC, the output low level is valid
BT-222F	16 channel / digital output / 24VDC, the output high level is valid
BT-3158	8 channels voltage input, 0~5VDC / 0~10VDC / ± 5 VDC / ± 10 VDC, 12-bit
BT-3168	8 channels voltage input, 0~5VDC / 0~10VDC / ± 5 VDC / ± 10 VDC, 16 bit
BT-3238	8 channels / current input / 0&4-20mA, 16 bit single-ended,

I/O Card

BT-3244	4 channels / current input / 0&4-20mA, ± 20 mA, 16-bit, single-ended bipolar,
BT-3714	4 channels thermal resistance input, RTD-PT100
BT-3724	4 channels thermal resistance input, RTD-PT1000
BT-3804	4 channels Thermocouple input, TC-J / K / E / T / S / R / B / N type, fixed filtering parameters
BT-4234	4 channels current output, 0&4-20mA, 16-bit, single-ended
BT-4154	4 channels voltage output, 0~5VDC / 0~10VDC / ± 5 VDC / ± 10 VDC, 16-bit
BT-5102	2 channels orthogonal / pulse encoder input, 5V , <1.5MHz
BT-5112	2 channels orthogonal / pulse encoder input, 24V , <0.5MHz
BT-5121	1 channel SSI encoder input, 5V differential, 2MHz
BT-5141	1 channel orthogonal / pulse encoder input, 5V differential, 10MHz
BT-5312	2-Channel Modbus Serial Port Module
BT-623F	8 channels digital input, NPN&PNP / 24VDC, supports counter function (counter frequency up to 200Hz); 8 channels / digital output / PNP / 24Vdc/0.5A

ODOT Automation-C-Series

Codesys PLC

Supports 5 programming languages; Supports multiple industrial communication protocols; Up to 32 I/O module expansion; Wide temperature design



C3351

The controller supporting Modbus RTU/TCP; Program Memory 4M; Programming environment: CODESYS, with a maximum capacity of 32 expansion modules



C4374

The controller supporting Modbus RTU/TCP, EtherCAT, CANOpen; Program Memory 4M; Programming environment: CODESYS, with a max. capacity of 32 expansion modules

ODOT Automation-C-Series

Push-In Remote I/O

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



Network Adapter



I/O Module

- ▶ The product carries ultra-thin design for space saving
- ▶ Spring terminal design for convenient and fast wiring
- ▶ Industrial light guided terminal
- ▶ 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



Network Adapter

CN-8011	Modbus-RTU Bus Adapter
CN-8012	PROFIBUS-DP Bus Adapter
CN-8013	CC-Link Bus Adapter
CN-8021	CANopen Bus Adapter
CN-8022	DeviceNet Bus Adapter
CN-8031	Modbus TCP Network Adapter
CN-8032	PROFINET Network Adapter
CN-8032-L	PROFINET Network Adapter
CN-8033	EtherCAT Network Adapter
CN-8034	EtherNet/IP Network Adapter
CN-8037	CC-Link IE Field Basic Adapter

Remote I/O Module

CT-1218	8DI, PNP/high level active, 24VDC, counter frequency<200Hz
CT-121F	16DI, PNP/high level active, 24VDC, counter frequency<200Hz
CT-1228	8DI, NPN/low level active, 24VDC, counter frequency<200Hz
CT-122F	16DI, NPN/low level active, 24VDC, counter frequency<200Hz
CT-124H ♦	32DI, PNP or NPN/high or low level active, 24VDC, counter frequency<200Hz, 34Pin male connector
CT-124D	32DI, PNP or NPN/high or low level active, 24VDC, counter frequency<200Hz
CT-125F	16DI, PNP/high level active, 24VDC, counter frequency<200Hz, independent power supply
CT-126F	16DI, NPN/low level active, 24VDC, counter frequency<200Hz, independent power supply
CT-1314	4DI, 220VAC input, counter frequency<10Hz
CT-2224	4DO, PNP/high level active, 24VDC@2.2A, independent power supply
CT-2218	8DO, NPN/low level active, 24VDC@0.5A
CT-2228	8DO, PNP/high level active, 24VDC@0.5A
CT-222F	16DO, PNP/high level active, 24VDC@0.5A
CT-222F-NP	16DO, PNP/high level active, 24VDC@0.5A, independent power supply
CT-222H ♦	32DO, PNP/high level active, 24VDC@0.3A, 34Pin male connector
CT-222D	32DO, PNP/high level active, 24VDC@0.5A, independent power supply
CT-221F	16DO, NPN/low level active, 24VDC@0.5A
CT-221H	32DO, NPN/low level active, 24VDC@0.3A, 34Pin male connector
CT-221D	32DO, NPN/low level active, 24VDC@0.25A, independent power supply
CT-2244	4-channel digital output, 0.5A/PNP/24V active, NPN/OV active
CT-225F	16DO, NPN/low level active, 24VDC@0.5A, independent power supply
CT-226F	16DO, PNP/high level active, 24VDC@0.5A, independent power supply
CT-2738	8DO, relay output, 24VDC@1A, with contact protection, channel isolation
CT-2754	4DO, relay output, 24VDC@2A, channel isolation (inductive load:2A, resistive load:3A)
CT-2794	4DO, relay output, inductive load:1A@220VAC, resistive load:2A@220VAC, channel isolation
CT-3134	4 AI 0~5VDC, 5~5VDC, 0~10VDC, -10~10VDC16 bits, Single-end, channel isolation
CT-3168	8 AI 0~5VDC, 5~5VDC, 0~10VDC, -10~10VDC16 bits, Single-end
CT-3234	4 AI 0&4-20mA/15 bits

Remote I/O Module

CT-3238	8 AI 0&4-20mA/15 bits
CT-3268	8 AI 0~20mA/1-20~0mA /+20mA /16 bits, single ended
CT-3274	4 AI 0&4~20mA, 16 bits, Input Accuracy: full $\pm 0.1@25^{\circ}\text{C}$, $\pm 0.3@-35\sim 70^{\circ}\text{C}$, channel isolation
CT-3713	3-channel RTD (Resistance Temperature Detector) input, RTD-PT100
CT-3723	3-channel RTD (Resistance Temperature Detector) input, RTD-PT1000
CT-3716	6-channel RTD (Resistance Temperature Detector) input, RTD-PT100
CT-3726	6-channel RTD (Resistance Temperature Detector) input, RTD-PT-1000
CT-3734	4 AI(RTD-PT100) with channel isolation, Input accuracy : 0.5 $^{\circ}\text{C}$
CT-3744	4 AI(RTD-PT1000), Input Accuracy: 0.5 $^{\circ}\text{C}$, channel isolation
CT-3844	4 AI Thermocouple(TC-J/K/E/T/S/R/B/N)types, filter parameters can adjustable
CT-3848	8 AI Thermocouple(TC-J/K/E/T/S/R/B/N)types
CT-4154	4 AO Voltage Output, 0~5VDC, 5~5VDC, 0~10VDC, -10~10VDC, 16 bits
CT-4158	8 AO Voltage Output, 0~5VDC, 5~5VDC, 0~10VDC, -10~10VDC, 16 bits
CT-4234	4AO, Current output, 0~20mA, 4~20mA, 16 bits single-end
CT-4238	8AO, Current output, 0~20mA, 4~20mA, 16 bits single-end
CT-5000	Dummy module, no wiring and no channels
CT-5102	2-channel encoder input, 5V, input frequency < 1.5 MHz
CT-5112	2-channel encoder input, 24V, input frequency < 0.5 MHz
CT-5122	2-channel SSI encoder input, 5V differential, input frequency < 2 MHz
CT-5142	2-channel differential encoder input, 5V differential, input frequency < 10 MHz
CT-5212	8DI, PNP/high level active, and 2DO, PNP/high level active, 24VDC@0.5A, and 2-channel pulse output (pulse and direction / double pulse)
CT-5224	4DI, PNP or NPN/high or low level active, and 4DO, PNP/high level active, 24VDC@0.5A, and 4-channel PWM output, 24VDC@1A, independent power supply
CT-5321	Modbus serial port
CT-5331	CANopen Master
CT-5341	PROFIBUS-DP master
CT-5711	Fieldbus Extended Master Module
CT-5721	Fieldbus Extended Slave Module
CT-5801	End card-mandatory module, take no module channel
CT-623F	8DI, PNP or NPN/high or low level active, 24VDC, and 8DO, PNP/high level active, 24VDC@0.5A
CT-7100	Field Expansion power Supply, 24VDC/8A
CT-7220	Expansion power Supply(System power input 24VDC, Output 5VDC/2A, Field power input 24Vdc, Output 24VDC/8A)
CT-7221	Expansion power Supply(System power input 24Vdc, Out-put 5VDC/2A, Field power input 24VDC, Output 24Vdc, Output 24VDC/8A)(need slot occupied)
CT-730F	18 CH filed power distribution module OVDC
CT-731F	18 CH filed power distribution module 24VDC
CT-732F	18 CH filed power distribution module PE
CT-7339	18 CH filed power distribution module 24VDC/0VDC
CT-7346	18 CH filed power distribution module 24VDC/0VDC PE

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



Protocol Converter

- ▶ Supports protocol Modbus RTU/ASCII or non-standard protocol to PROFINET
- ▶ Supports 2* RS485/RS232/RS422
- ▶ Supports Modbus RTU/ASCII Master and Slave , free port transmission mode
- ▶ Supports working temperature of -40°C~85°C
- ▶ Supports data area: 2 serial Modbus-RTU/ASCII to PROFINET gateway with Max. input 1440 bytes and Max. output 1440 bytes
- ▶ Supports one key reset

- ODOT-PNM02 V2.0 / V2.1: Modbus-RTU/ASCII and non-standard protocol To PROFINET
- ODOT-S4E2: 4*RS485/RS232 or 2*RS422, 2*RJ45, Modbus-RTU/ASCII To Modbus-TCP
- ODOT-S2E2: 2*RS485, 2*RJ45, 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

- ▶ 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



Leading Automation PLC+I/O Solution Provider in China



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