

WUHAN-CHINA

COME-STAR



Product Selection Catalog (2024~2025)

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ENTERPRISE PROFILE



COME-STAR is a high-tech enterprise focusing on reliable industrial network communication products and independent and controllable system solutions, headquartered in the national high-tech development zone Wuhan, "China Optical Valley".

COME-STAR integrates independent research and development, production, sales and service. Being recognized as one of the top three brands in the industry, COME-STAR takes the vision to become a world-class industrial automation leading brand, aiming to enable more users to enjoy realize equipment networking and communication in a safe and reliable way.

Relying on the rich technology and industry practice experience in the field of industrial communication, COME-STAR has built a series of products involving industrial internet communication, field bus transmission, industrial fiber optic access, industrial network communication, and industrial automation, industrial computers, and equipment operating systems, industrial network operation platforms etc, to help industrial spot field data security interconnection.

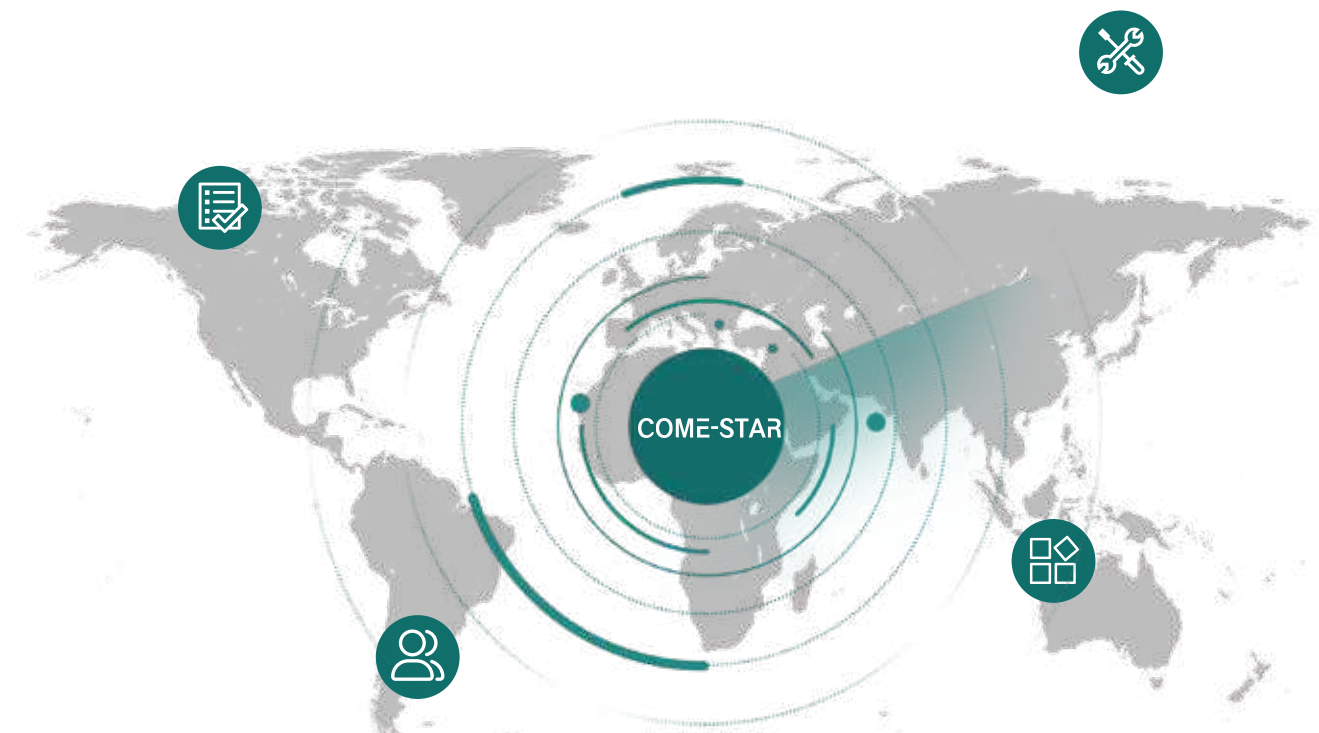
Currently, COME-STAR boasts a global marketing network, catering to tens of thousands of customers worldwide. With over ten million units of connected products, COME-STAR offers efficient and professional customer service, aiding in product selection, technical support, and streamlined order processing.

10000+
Partners

63+
Countries and Regions

100+
Patents

5000w+
Devices Connected



HONOR AND CORE TECHNOLOGY



Environmental Management
System Certificate



Occupational Health
Management Certificate



Quality Management
System Certificate



Invention patents



Computer software copyright
registration certificat



UL Certification



EAC Certification



CE, FCC, RoHS



TSN



PTP



IPV6



10G



Layer 3



Optical port rate self-adapting



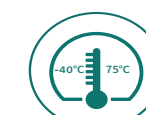
DDM



Dual-mirror backup



Small size
low power consumption



-40°C -75°C



Strong
anti-interference ability



Redundant ring MW-Ring



State Grid Electric Power
Testing and Certification



Ministry of Public Security
Certification



Ministry of Industry and
Information Technology
Certification



Rail transit testing
and certification



CCC certification



Telecom Network
Access License



C4 anti-corrosion
certification



Salt spray testing
and certification

SALES NETWORK



Domestic sales network

Headquarters: Wuhan, China

Offices: Beijing, Shanghai, Nanjing, Jinan, Shenzhen, Chengdu, Xi'an



Global sales network

Distributors: Singapore, Korea, USA, Russia, Germany, France, Australia, Italy, etc.

Presale

Determine the software/hardware solution suitable for the user
Provide hardware platform testing close to user requirements

After sale

7* 24-hour technical support
Product selection and project application design
Pointed engineer for key client and project

Principle design

Develop R&D plans according to user needs
Internal closed feasibility test
Identify key technologies and key component

Engineering

Engineering testing and design reviews
Adopt user rationalization suggestions

Trial production

Small batch trial production
Guarantee the function and performance of the product

User test

Samples are delivered to users for testing
The engineers conduct re-testing and modification and adjustment

WHY CHOOSE US



R&D Strength

Our skilled and experienced R&D team boasts strong capabilities in independent research and innovation.

Customized Service

Our skilled and experienced R&D team boasts strong capabilities in independent research and innovation.

Product Quality Assurance

We prioritize product quality and reliability. Utilizing high-quality raw materials and components, our products undergo rigorous testing and quality control measures. With over 100 stringent tests, we ensure the utmost reliability and stability in our offerings.

Turnkey Solution

Deliver complete communication equipment solutions encompassing switches, routers, optical communication equipment, and more, alongside related software and services.

Global Market Presence

Establishing a global presence, we serve a wide customer base and hold a significant market share. Our long-term partnerships with renowned companies and operators underscore our commitment to excellence.

Fast Response

We've established professional pre-sales and after-sales teams with a globalized sales network and channels. This setup allows us to provide customers with convenient and quick sales and technical support services.



PRODUCT LINE



INDUSTRIAL ETHERNET SWITCH

- Layer 3 Managed Switch
- Layer 2 Managed Switch
- Unmanaged Switch
- PTP/TSN Ethernet Switch
- Embedded Ethernet Switch
- Managed PoE Switch
- Unmanaged PoE Switch
- Fiber Media Converter
- Profinet Switch
- EtherCAT Switch
- Wireless Switch



INDUSTRIAL NETWORKING

Serial Server
Serial Converter
CAN Bus Converter
Ethernet Gateway
Modbus Gateway
I/O Device



INDUSTRIAL WIRELESS

Access Point

Wireless Client

Wireless Ethernet Bridge

Access Control

Serial to Cellular Modem

LoRa Gateway

Industrial 4G/5G Router



INDUSTRIAL SPECIFIC SWITCH

Managed Intrinsic Safe Switch

Unmanaged Intrinsic Safe Switch

Intrinsic Safe VDSL Extender

EN50155 Switch

IEC61850 Switch

Automation Switch



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INDUSTRIAL SWITCH

- Layer 3 core switches
- Layer2 managed industrial Ethernet switches
- Layer 2 unmanaged industrial Ethernet switches
- Industrial POE Ethernet switches
- Industrial media converters



Industrial Ethernet Switch

Layer 3 Core Switch			
Model	CISC0M8056GX-8XGF-48GT	CISC0M8052GX-4XGF-48GT	CISC0M8036GX-4XGF-24GF-8GT
<div><div></div><div></div><div></div></div>			
Port Number	56	52	36
10/100M RJ45 port	—	—	—
10/100/1000M RJ45 port	48	48	8
100M fiber port	—	—	—
1000M SFP fiber port	—	—	24
1G/10G SFP+ fiber port	8	4	4
Gigabit Combo port	—	—	—
Power			
Power input	AC/DC220V	AC/DC220V	AD220V,DC18~72V
Consumption	< 80W (MAX)	< 63W (MAX)	< 50W (MAX)
Working Environment			
Operating temperature	-40℃~+75℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimensions(L)*(W)*(H)(mm)	483×44×340	482.6×44×315	482.6×44×315
Switching Performance			
Switching bandwidth	440Gbps	128Gbps	180Gbps
MAC table	64K	16K	32K
Routing entries	3K	3K	3K
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	Support	Support	Support
Multicast routing	Support	Support	Support
VRRP	Support	Support	Support
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 3 Core Switch			
Model	CISC0M8030GX-6XGF-16GF-8GC	CISC0M8028GX-4XGF-16GF-8GC	CISC0M8028GX-4XGF-8GC-16GT
<div><div></div><div></div><div></div></div>			
Port Number	30	28	28
10/100M RJ45 port	—	—	—
10/100/1000M RJ45 port	—	—	16
100M fiber port	—	—	—
1000M SFP fiber port	16	16	—
1G/10G SFP+ fiber port	6	4	4
Gigabit Combo port	8	8	8
Power			
Power input	AC/DC220V	AD220V,DC18~72V	AD220V,DC18~72V
Consumption	< 45W(MAX)	< 40W(MAX)	< 30W(MAX)
Working Environment			
Operating temperature	-40℃~+75℃	-40℃~+70℃	-40℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimensions(L)*(W)*(H)(mm)	482.6×44×315	482.6×44×315	482.6×44×315
Switching Performance			
Switching bandwidth	180Gbps	128Gbps	128Gbps
MAC table	32K	16K	16K
Routing entries	1024	512	512
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	Support	Support	Support
Multicast routing	Support	Support	Support
VRRP	Support	Support	Support
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 3 Core Switch			
Model	CISC0M8028GX-4XGF-24GT	CISC0M8028GX-4XGF-8GT-16F	CISC0M8020G-4GF-16GT
<div><div></div><div></div><div></div></div>			
Port Number	28	28	20
10/100M RJ45 port	24	—	—
10/100/1000M RJ45 port	—	8	16
100M fiber port	—	16	—
1000M SFP fiber port	4	—	4
1G/10G SFP+ fiber port	—	4	—
Gigabit Combo port	—	—	—
Power			
Power input	AD220V,DC18~72V	AC/DC220V	AC/DC220V
Consumption	< 22W (MAX)	< 29W (MAX)	< 15W (MAX)
Working Environment			
Operating temperature	-40℃~+75℃	-40℃~+75℃	-40℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimensions(L)*(W)*(H)(mm)	482.6×44×315	482.6×44×315	482.6×44×210
Switching Performance			
Switching bandwidth	128Gbps	128Gbps	128Gbps
MAC table	16K	16K	16K
Routing entries	512	512	512
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	Support	Support	Support
Multicast routing	Support	Support	Support
VRRP	Support	Support	Support
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 3 Core Switch			
Model	CISC0M8220G-4GF-16GT	CISC0M8220GX-4XGF-8GF-8GT	CISC0M8032GX-8XGF-24GT
<div><div></div><div></div><div></div></div>			
Port Number	20	20	32
10/100M RJ45 port	—	8	—
10/100/1000M RJ45 port	16	—	24
100M fiber port	—	—	—
1000M SFP fiber port	4	8	—
1G/10G SFP+ fiber port	—	4	8
Gigabit Combo port	—	—	—
Power			
Power input	AC/DC220V,DC24/48V	AC/DC220V,DC12~48V	AC/DC220V
Consumption	< 15W (MAX)	< 22W (MAX)	< 45W (MAX)
Working Environment			
Operating temperature	-40℃~+70℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Din Rail	Din Rail	Rack Mount
Dimensions(L)*(W)*(H)(mm)	156x85x128.4	160x82.5x128	483×44×340
Switching Performance			
Switching bandwidth	128Gbps	128Gbps	440Gbps
MAC table	16K	16K	64K
Routing entries	512	512	3K
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	Support	Support	Support
Multicast routing	Support	Support	Support
VRRP	Support	Support	Support
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch			
Model	CISCOM7028GX-4XGF-16GF-8GC	CISCOM7028GX-4XGF-8GC-16GT	CISCOM7028G-4GC-24GT
<div><div></div><div></div><div></div></div>			
Port Number	28	28	28
10/100M RJ45 port	—	—	—
10/100/1000M RJ45 port	—	16	24
100M fiber port	—	—	—
1000M SFP fiber port	16	—	—
1G/10G SFP+ fiber port	4	4	—
Gigabit Combo port	8	8	4
Power			
Power input	AD220V,DC18~72V	AD220V,DC18~72V	AC/DC220V
Consumption	< 40W(MAX)	<30W (MAX)	<24W (MAX)
Working Environment			
Operating temperature	-40℃~+70℃	-40℃~+70℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimensions(L)*(W)*(H)(mm)	482.6×44×315	482.6×44×315	482.6×44×210
Switching Performance			
Switching bandwidth	128Gbps	128Gbps	56Gbps
MAC table	16K	16K	8K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	—	—	—
Multicast routing	—	—	—
VRRP	—	—	—
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch			
Model	CISCOM7028-4GC-0/4/8/16F	CISCOM7028-4GF-24F	CISCOM7028G-4GF-8GC-16GT
<div><div></div><div></div><div></div></div>			
Port Number	28	28	28
10/100M RJ45 port	24/20/16/8	—	—
10/100/1000M RJ45 port	—	—	16
100M fiber port	0/4/8/16	24	—
1000M SFP fiber port	—	4	4
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo port	4	—	8
Power			
Power input	AC/DC220V	AC/DC220V	AC/DC220V, DC12/24/48V
Consumption	<26W (MAX)	<40W (MAX)	<30W(MAX)
Working Environment			
Operating temperature	-40℃~+75℃	-40℃~+70℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimensions(L)*(W)*(H)(mm)	482.6×44×210	482.6×44×315	482.6×44×210
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	56Gbps
MAC table	8K	8K	8K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	—	—	—
Multicast routing	—	—	—
VRRP	—	—	—
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch			
Model	CISC0M7028G-12GF-8GC-8GT	CISC0M7020G-4GC-16GT	
<div><div></div><div></div></div>			
Port Number	28	20	
10/100M RJ45 port	—	—	
10/100/1000M RJ45 port	8	16	
100M fiber port	—	—	
1000M SFP fiber port	12	—	
1G/10G SFP+ fiber port	—	—	
Gigabit Combo port	8	4	
Power			
Power input	AC/DC220V	AC/DC220V	
Consumption	< 35W(MAX)	<20W(MAX)	
Working Environment			
Operating temperature	-40℃~+75℃	-40℃~+75℃	
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	
Physical Parameter			
Installation	Rack Mount	Rack Mount	
Dimensions(L)*(W)*(H)(mm)	482.6x44x210	482.6x44x210	
Switching Performance			
Switching bandwidth	56Gbps	56Gbps	
MAC table	8K	8K	
IGMP Group	—	—	
Basic Function			
QoS/VLAN	Support	Support	
Port static trunk/LACP	Support	Support	
IGMP v1/v2/v3 multicast	Support	Support	
BSP	Support	Support	
Redundancy Protocol			
MW-Ring	Support	Support	
ERPS/EAPS	Support	Support	
MSTP(RSTP/STP)	Support	Support	
Layer 3 Software Property			
Layer 3 routing	—	—	
Multicast routing	—	—	
VRRP	—	—	
Management			
SNMPv1/v2/v3	Support	Support	
LLDP	Support	Support	
DHCP	Support	Support	
RMON	Support	Support	
GVRP	Support	Support	
GMRP	Support	Support	
Device management	Support	Support	
Security			
802.1X	Support	Support	
HTTPS/SSL	Support	Support	
Port security binding	Support	Support	
ACL	Support	Support	
RADIUS	Support	Support	

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch			
Model	CISC0M7214GX-2XGF-4GF-8GT	CISC0M7220G-4GF-16GT	CISC0M7212G-4GF-8GT
<div><div></div><div></div><div></div></div>			
Port Number	14	20	12
10/100M RJ45 port	—	—	—
10/100/1000M RJ45 port	8	16	8
100M fiber port	—	—	—
1000M SFP fiber port	4	4	4
1G/10G SFP+ fiber port	2	—	—
Gigabit Combo port	—	—	—
Power			
Power input	AC/DC220V,DC24/48V	AC/DC220V DC9~60V	AC/DC220V DC9~60V
Consumption	< 12W(MAX)	<16W (MAX)	<12W (MAX)
Working Environment			
Operating temperature	-40℃~+85℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Din Rail	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	156x72x120	160×74×122	160x58x122
Switching Performance			
Switching bandwidth	64Gbps	56Gbps	56Gbps
MAC table	16K	8K	8K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	—	—	—
Multicast routing	—	—	—
VRRP	—	—	—
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch			
Model	CISCOM7220-4GF	CISCOM7220-4GF-4F	CISCOM7220-4GF-8F
			
Port Number	20	20	20
10/100M RJ45 port	16	12	8
10/100/1000M RJ45 port	—	—	—
100M fiber port	—	4	8
1000M SFP fiber port	4	4	4
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo port	—	—	—
Power			
Power input	AC/DC220V,DC9~60V	AC/DC220V, DC12/24/48V	AC/DC220V, DC12/24/48V
Consumption	<12W (MAX)	< 14W(MAX)	16W@24V(MAX)
Working Environment			
Operating temperature	-40℃~+75℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Din Rail	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	160×74×122	160×74×122	160×74×122
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	12.8Gbps
MAC table	8K	8K	8K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	—	—	—
Multicast routing	—	—	—
VRRP	—	—	—
Management			
SNMPv1/v2	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch				
Model	CISCOM7210-2GF	CISCOM7210-2GF-2F	CISCOM7209-3GF	CISCOM7210G-2GF-8GT
				
Port Number	10	10	9	10
10/100M RJ45 port	8	6	6	—
10/100/1000M RJ45 port	—	—	—	8
100M fiber port	—	2	—	—
1000M SFP fiber port	2	2	3	2
1G/10G SFP+ fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	AC/DC220V,DC9~60V	DC9~60V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V
Consumption	<6W (MAX)	<6W(MAX)	<6W (MAX)	< 10W(MAX)
Working Environment				
Operating temperature	-40℃~+75℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Din Rail	Din Rail	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	140x54x110	160x58x122	140x54x110	160x58x122
Switching Performance				
Switching bandwidth	12.8Gbps	5.6Gbps	7.6Gbps	20Gbps
MAC table	8K	8K	8K	8K
IGMP Group	—	—	—	—
Basic Function				
QoS/VLAN	Support	Support	Support	Support
Port static trunk/LACP	Support	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support	Support
BSP	Support	Support	Support	Support
Redundancy Protocol				
MW-Ring	Support	Support	Support	Support
ERPS	Support	Support	Support	Support
RSTP/STP	Support	Support	Support	Support
Layer 3 Software Property				
Layer 3 routing	—	—	—	—
Multicast routing	—	—	—	—
VRRP	—	—	—	—
Management				
SNMPv1/v2	Support	Support	Support	Support
LLDP	Support	Support	Support	Support
DHCP	Support	Support	Support	Support
RMON	Support	Support	Support	Support
GVRP	Support	Support	Support	Support
GMRP	Support	Support	Support	Support
Device management	Support	Support	Support	Support
Security				
802.1X	Support	Support	Support	Support
HTTPS/SSL	Support	Support	Support	Support
Port security binding	Support	Support	Support	Support
ACL		Support	Support	Support
RADIUS	Support	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch			
Model	CISCOM7206G-2GF-4GT	CISCOM6024-0/4/8/16F	CISCOM6026-2F
			
Port Number			
10/100M RJ45 port	—	24/20/16/8	24
10/100/1000M RJ45 port	4	—	—
100M fiber port	—	0/4/8/16	2
1000M SFP fiber port	2	—	—
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo ports	—	—	—
Power			
Power input	AC/DC220V,DC9~60V	AC/DC220V	AC/DC220V
Consumption	<5.5W (MAX)	<16.5W (MAX)	<8W (MAX)
Working Environment			
Operating temperature	-40℃~+85℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Din Rail	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	140x55x110	482.6×44×210	482.6×44×210
Switching Performance			
Switching bandwidth	14Gbps	12.8Gbps	12.8Gbps
MAC table	2K	8K	8K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	—	—	—
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	—	—	—
Multicast routing	—	—	—
VRRP	—	—	—
Management			
SNMPv1/v2	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch			
Model	CISCOM6220-4F	CISCOM6218-2F	CISCOM6216
			
Port Number			
10/100M RJ45 port	20	18	16
10/100/1000M RJ45 port	16	16	16
100M fiber port	—	—	—
100M fiber port	4	2	—
1000M SFP fiber port	—	—	—
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo ports	—	—	—
Power			
Power input	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V
Consumption	< 12W (MAX)	< 10W (MAX)	< 8W (MAX)
Working Environment			
Operating temperature	-40℃~+75℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Din Rail	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	160×74×122	160×74×122	160×74×122
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	12.8Gbps
MAC table	8K	8K	8K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	—	—	—
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	—	—	—
Multicast routing	—	—	—
VRRP	—	—	—
Management			
SNMPv1/v2	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support


Industrial Ethernet Switch


Layer 2 Managed Industrial Ethernet Switch			
Model	CISCOM6208	CISCOM6208-2F	CISCOM6208-4F
			
Port Number	8	8	8
10/100M RJ45 port	8	6	4
10/100/1000M RJ45 port	—	—	—
100M fiber port	—	2	4
1000M SFP fiber port	—	—	—
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo port	—	—	—
Power			
Power input	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V
Consumption	< 5W@24V(MAX)	< 5W@24V(MAX)	< 5W@24V(MAX)
Working Environment			
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Din Rail	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	140×54×110	140×54×110	140×54×110
Switching Performance			
Switching bandwidth	2Gbps	2Gbps	2Gbps
MAC table	2K	2K	2K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	—	—	—
Multicast routing	—	—	—
VRRP	—	—	—
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	—	—	—
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch


Layer 2 Managed Industrial Ethernet Switch		
Model	CIEN6208-2F	CIEN5205C
		
Port Number	8	5
10/100M RJ45 port	6	3/4
10/100/1000M RJ45 port	—	—
100M fiber port	2	2/1
1000M SFP fiber port	—	—
BY-PASS	—	—
Gigabit Combo port	—	—
Power		
Power input	AC/DC220V,DC9~60V	DC9~60V
Consumption	5W(@24V)	3.7W(@24V)
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	140×54×110	140×54×110
Switching Performance		
Switching bandwidth	2Gbps	1.2Gbps
MAC table	2K	2K
IGMP Group	—	—
Basic Function		
QoS/VLAN	Support	Support
Port static trunk/LACP	Support	Support
IGMP v1/v2/v3 multicast	—	—
BSP	Support	Support
Redundancy Protocol		
MW-Ring	Support	Support
ERPS	Support	Support
RSTP/STP	Support	Support
Data Interface		
RS232	—	Support
RS485	—	Support
CAN	—	—
Management		
SNMPv1/v2	—	—
LLDP	Support	Support
DHCP	—	—
RMON	—	—
GVRP	—	—
GMRP	—	—
Device management	—	—
Security		
802.1X	—	—
HTTPS/SSL	—	—
Port security binding	—	—
ACL	—	—
RADIUS	—	—


Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch				
Model	CIEN3028G-4GC-24GT	CIEN3020G-4GC-16GT	CIEN3028-4GC-0/4/8/16F	CIEN3210G-2GF-8GT
				
Port Number	28	20	28	10
10/100M RJ45 port	—	—	24/20/16/8	—
10/100/1000M RJ45 port	24	16	—	8
100M fiber port	—	—	0/4/8/16	—
1000M SFP fiber port	—	—	—	2
1G/10G SFP+ fiber port	—	—	—	—
Gigabit Combo port	4	4	4	—
Power				
Power input	AC/DC220V	AC/DC220V	AC/DC220V	AC/DC220V,DC9~60V
Consumption	<24W(MAX)	<24W(MAX)	<15W(MAX)	<6W@24V(Max)
Working Environment				
Operating temperature	-40℃~-75℃	-40℃~-75℃	-40℃~-75℃	-40℃~-85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Rack Mount	Rack Mount	Din Rail	Din Rail
Dimension(L)*(W)*(H)(mm)	482.6×44×210	482.6×44×210	482.6×44×210	140×54×110
Switching Performance				
Switching bandwidth	56Gbps	56Gbps	12.8Gbps	20Gbps
MAC table	8K	8K	8K	4K
IGMP Group	—	—	—	—

Model	CIEN3208G-8GT	CIEN3206G-2GF-4GT	CIEN3205G-5GT	CIEN3205G-GF-4GT
				
Port Number	8	6	5	5
10/100M RJ45 port	—	—	—	—
10/100/1000M RJ45 port	8	4	5	4
100M fiber port	—	—	—	—
1000M SFP fiber port	—	2	—	1
1G/10G SFP+ fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	DC9-60V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V
Consumption	<2.5W (MAX)	<3.5W (MAX)	<1.8W (MAX)	<2.5W (MAX)
Working Environment				
Operating temperature	-40℃~-85℃	-40℃~-85℃	-40℃~-85℃	-40℃~-85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Din Rail	Din Rail	Din Rail	Din Rail
Dimension(L)*(W)*(H)(mm)	140×35×100	140×35×100	118x35x88	118x35x88
Switching Performance				
Switching bandwidth	16Gbps	14Gbps	14Gbps	14Gbps
MAC table	8K	4K	2K	2K
IGMP Group	—	—	—	—

Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch			
Model	CIEN2210-2F	CIEN2210-8F	CIEN3220-4GF
			
Port Number	10	10	20
10/100M RJ45 port	8	2	16
10/100/1000M RJ45 port	—	—	—
100M fiber port	2	8	—
1000M SFP fiber port	—	—	4
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo port	—	—	—
Power			
Power input	AC/DC220V,DC12~48V	AC/DC220V,DC12~48V	AC/DC220V, DC9~60V
Consumption	<3.8W(MAX)	<4.5W(MAX)	<12W (MAX)
Working Environment			
Operating temperature	-40℃~-85℃	-40℃~-85℃	-40℃~-75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Din Rail	Din Rail	Din Rail
Dimension(L)*(W)*(H)(mm)	138×54×110	138×54×110	160×74×122
Switching Performance			
Switching bandwidth	7.6Gbps	7.6Gbps	7.6Gbps
MAC table	8K	8K	8K
IGMP Group	—	—	—

Model	CIEN2026-2F	CIEN2024-0/4/8/16F	CIEN2220-4F
			
Port Number	26	24	20
10/100M RJ45 port	24	24	16
10/100/1000M RJ45 port	—	—	—
100M fiber port	2	—	4
1000M SFP fiber port	—	—	—
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo port	—	—	—
Power			
Power input	AC/DC220V	AD220V,DC18~72V	AC/DC220V,DC9~60V
Consumption	<8W (MAX)	<8/16.5/16.5/16.5/16.5W(MAX)	<9W (MAX)
Working Environment			
Operating temperature	-40℃~-75℃	-40℃~-75℃	-40℃~-85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Din Rail
Dimension(L)*(W)*(H)(mm)	482.6×44×210	482.6×44×210	160×74×122
Switching Performance			
Switching bandwidth	8.8Gbps	8.8/12.8/12.8/12.8/12.8Gbps	12.8Gbps
MAC table	8K	8K	8K
IGMP Group	—	—	—

Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch				
Model	CIEN2018-2F	CIEN2218-2F	CIEN2016	CIEN2216
				
Port Number	18	18	16	16
10/100M RJ45 port	16	16	16	16
10/100/1000M RJ45 port	—	—	—	—
100M fiber port	2	2	—	—
1000M SFP fiber port	—	—	—	—
1G/10G SFP+ fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	AD220V, DC18~72V	AC/DC220V,DC9~60V	AD220V, DC18~72V	AC/DC220V,DC9~60V
Consumption	<8W (MAX)	<7W@24V(Max)	<15W(MAX)	<3W@24V(Max)
Working Environment				
Operating temperature	-40℃~+75℃	-40℃~+85℃	-40℃~+75℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Rack Mount	Din Rail	Rack Mount	Din Rail
Dimension(L)*(W)*(H)(mm)	482.6×44×210	160×74×122	482.6×44×210	160×74×122
Switching Performance				
Switching bandwidth	8.8Gbps	12.8Gbps	8.8Gbps	4.8Gbps
MAC table	8K	8K	8K	8K
IGMP Group	—	—	—	—

Model	CIES208	CIES205	CIEN2208	CIEN2208-F
				
Port Number	8	5	8	8
10/100M RJ45 port	8	5	8	7
10/100/1000M RJ45 port	—	—	—	—
100M fiber port	—	—	—	1
1000M SFP fiber port	—	—	—	—
1G/10G SFP+ fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	DC9~60V, AC24V	DC9~60V, AC24V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V
Consumption	<1W (MAX)	<1W (MAX)	<1.8W (MAX)	<5W (MAX)
Working Environment				
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Din Rail	Din Rail	Din Rail	Din Rail
Dimension(L)*(W)*(H)(mm)	102×33×78	102×46×78	140×35×100	140×54×110
Switching Performance				
Switching bandwidth	1.6Gbps	1Gbps	1.6Gbps	1.6Gbps
MAC table	2K	2K	2K	2K
IGMP Group	—	—	—	—

Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch				
Model	CIEN2208-2F	CIEN2208-4F	CIEN2208E	
				
Port Number	8	8	8	
10/100M RJ45 port	6	4	—	
10/100/1000M RJ45 port	—	—	8	
100M fiber port	2	4	—	
1000M SFP fiber port	—	—	—	
1G/10G SFP+ fiber port	—	—	—	
Gigabit Combo port	—	—	—	
Power				
Power input	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V	DC12~48V	
Consumption	<5W (MAX)	<5W (MAX)	<1.8W (MAX)	
Working Environment				
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	
Physical Parameter				
Installation	Din Rail	Din Rail	Din Rail	
Dimension(L)*(W)*(H)(mm)	140×54×110	140×54×110	95×43×90.5	
Switching Performance				
Switching bandwidth	1.6Gbps	1.6Gbps	1.6Gbps	
MAC table	2K	2K	2K	
IGMP Group	—	—	—	

Model	CIEN2206-2F	CIEN2205	CIEN2205-F	CIEN2204-2F
				
Port Number	6	5	5	4
10/100M RJ45 port	4	5	4	2
10/100/1000M RJ45 port	—	—	—	—
100M fiber port	2	—	1	2
1000M SFP fiber port	—	—	—	—
1G/10G SFP+ fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V
Consumption	<2.5W (MAX)	<1.5W (MAX)	<1.8W (MAX)	<2.3W (MAX)
Working Environment				
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Din Rail	Din Rail	Din Rail	Din Rail
Dimension(L)*(W)*(H)(mm)	140×35×100	118x35x88	118x35x88	118x35x88
Switching Performance				
Switching bandwidth	1.6Gbps	1Gbps	1Gbps	1Gbps
MAC table	2K	2K	2K	2K
IGMP Group	—	—	—	—

Industrial Ethernet Switch

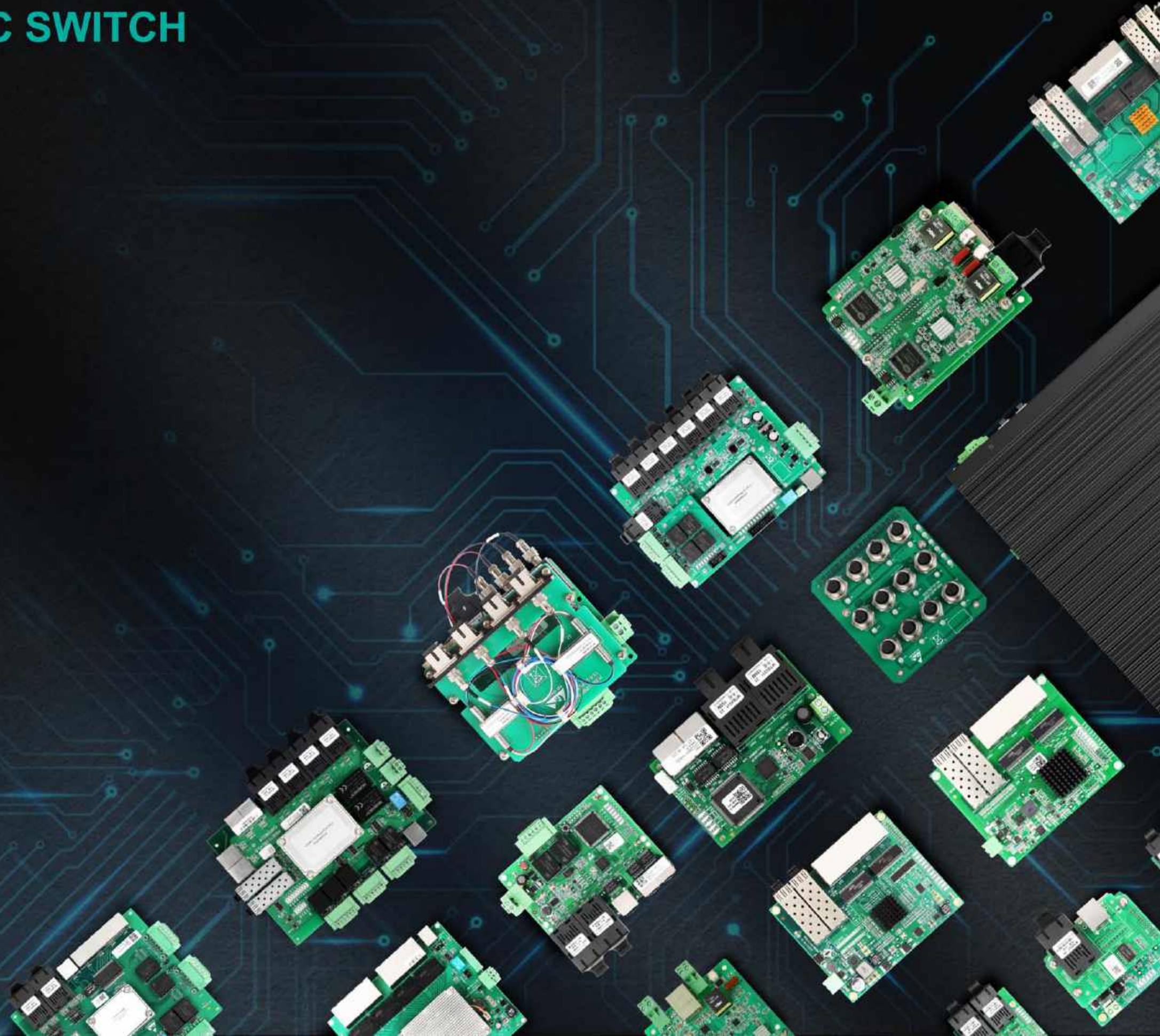
Industrial POE Switch			
Model	CISCOM7028GP-4GF-24GTPOE	CISCOM7212GP-4GF-8GTPOE	CISCOM7210GP-2GF-8GTPOE
			
Port Number	28	12	10
10/100M RJ45 port	—	—	—
10/100/1000M RJ45 port	24	8	8
100M fiber port	—	—	—
1000M SFP fiber port	4	4	2
1G/10G SFP+ fiber port	—	—	—
Gigabit Combo port	—	—	—
Power			
Power input	DC48~52V	DC48~57V	DC48~57V
Consumption	<21W@DC48V, <32W@AC220V	<12W@DC48V (NO PD)	<8W@DC48V (NO PD)
Working Environment			
Operating temperature	-40℃~+70℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Din Rail	Din Rail
Dimension(L)*(W)*(H)(mm)	482.6×44×210	160x58x122	160x58x122
Switching Performance			
Switching bandwidth	56Gbps	56Gbps	20Gbps
MAC table	8K	8K	8K
IGMP Group	—	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support
POE Feature			
Support protocol	IEEE802.3af/at	IEEE802.3af/at	IEEE802.3af/at
Single port power	Single port PoE≤30W (54V)	Single port PoE≤30W (54V)	Single port PoE≤30W (54V)
Management Function			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Server/Client	Server/Client	Server/Client
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
NST/SNTP	SNTP	SNTP	SNTP
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Industrial POE Switch				
Model	C1EN3210GP-2GF-8GTPOE	C1EN3206GP-2GF-4GTPOE	CISCOM3205GP-GF-4GTPOE	
				
Port Number	10	6	5	
10/100M RJ45 port	—	—	—	
10/100/1000M RJ45 port	8	4	4	
100M fiber port	—	—	—	
1000M SFP fiber port	2	2	1	
10/100/1000M DB9 copper port	—	—	—	
Gigabit Combo port	—	—	—	
Power				
Power input	DC24V, DC48~52V	DC48~52V	DC48~52V	
Consumption	<8W@DC24V,<7W@DC48V	<3.5W@DC48V (NO PD)	<3W@DC48V (NO PD)	
Working Environment				
Operating temperature	-40℃~+85℃	-40℃~+75℃	-40℃~+75℃	
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	
Physical Parameter				
Installation	Din Rail	Din Rail	Din Rail	
Dimension(L)*(W)*(H)(mm)	140x54x110	110x35x88	110x35x88	
Switching Performance				
Switching bandwidth	20Gbps	14Gbps	14Gbps	
MAC table	2k	2k	2k	
POE Feature				
Support protocol	IEEE802.3af/at	IEEE802.3af/at	IEEE802.3af/at	
Industrial Media Converter				
Model	C1EN1203G-GF-2GT	C1EN1203	CT3110-GF	CT8110
				
Port Number	3	3	2	2
10/100M RJ45 port	—	2	—	1
10/100/1000M RJ45 port	2	—	1	—
100M fiber port	—	1	1 (Gigabit)	1
1000M SFP fiber port	1	—	—	—
10/100/1000M DB9 copper port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	AC/DC220V,DC9~60V	AC/DC220V,DC9~60V	AC/DC220V,DC5V	AC/DC220V,DC5V
Consumption	<1.7W@12V(Max)	<1.5W(MAX)	<3W (MAX)	<2.5W (MAX)
Working Environment				
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	0℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Din Rail	Din Rail	Din Rail	Desktop
Dimension(L)*(W)*(H)(mm)	118x35x88	118x35x88	95x26x70	95x26x70
Switching Performance				
Switching latency	<5us	<5us	<5us	<5us
Switching bandwidth	1Gbps	1Gbps	1Gbps	—
MAC table	2k	2k	2k	2k

INDUSTRIAL SPECIFIC SWITCH

- Embedded Ethernet Switch
- EN50155 Ethernet Switch
- IEC61850 Ethernet Switch



Industrial Specific Switch

Embedded Ethernet Switch			
Model	CES8112GX-4XGF-8GC	CES7110G-2XGF-4GF-4GT	CES7106G-2XGF-4GT
			
Port Number	12	10	6
10/100M RJ45 port	—	—	—
10/100/1000M RJ45 port	—	4	4
100M fiber port	—	—	—
1000M SFP fiber port	—	4	—
10G SFPP+ fiber port	4	2	2
Gigabit Combo port	8	—	—
Power			
Power input	DC12~24V	DC9V~36V	DC9V~36V
Consumption	20W@12VDC	<7.5W(MAX)	<6.5W(MAX)
Working Environment			
Operating temperature	-40℃~+70℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Embedded	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	185×135×63	115×95×38	115×95×25
Switching Performance			
Switching bandwidth	128Gbps	56Gbps	48Gbps
MAC table	16K	16K	16K
IGMP Group	512	—	—
Basic Function			
QoS/VLAN	Support	Support	Support
Port static trunk/LACP	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support
Broadcast storm suppression	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support
Layer3 Software Property			
Layer 3 routing	Static,RIP,OSPF	—	—
Multicast routing	PIM-SM/PIM-DM	—	—
VRRP	Support	—	—
Management			
SNMPv1/v2/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Server	—	—
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
NST/SNTP	SNTP	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	—	—	—

Industrial Specific Switch

Embedded Ethernet Switch				
Model	CES8120G-4GF-16GT	CES7112G-4GF-8GT	CES3106G-3GF-3GT	CES3106G-2GF-4GT
				
Port Number	20	12	6	6
10/100M RJ45 port	—	—	—	—
10/100/1000M RJ45 port	16	8	3	4
100M fiber port	—	—	—	—
1000M SFP fiber port	4	4	3	2
10G SFPP+ fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	DC24~48V	DC12~48V	DC5~24V	DC9~24V
Consumption	15W	<12W(MAX)	3.2W @24VDC(MAX)	<5.1W (MAX)
Working Environment				
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Embedded	Embedded	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	184×164×28.6	172×146×27	120×90×18	115×95×17
Switching Performance				
Switching bandwidth	40Gbps	24Gbps	14Gbps	12Gbps
MAC table	16K	8K	2K	8K
IGMP Group	512	—	—	—
Basic Function				
QoS/VLAN	Support	Support	—	—
Port static trunk/LACP	Support	Support	—	—
IGMP v1/v2/v3 multicast	Support	Support	—	—
Broadcast storm suppression	Support	Support	—	—
Redundancy Protocol				
MW-Ring	Support	Support	—	—
ERPS/EAPS	Support	Support	—	—
MSTP(RSTP/STP)	Support	Support	—	—
Layer3 Software Property				
Layer 3 routing	Static,RIP,OSPF	—	—	—
Multicast routing	PIM-SM/PIM-DM	—	—	—
VRRP	Support	—	—	—
Management				
SNMPv1/v2/v3	Support	Support	—	—
LLDP	Support	Support	—	—
DHCP	Server	—	—	—
RMON	Support	Support	—	—
GVRP	Support	Support	—	—
GMRP	Support	Support	—	—
NST/SNTP	SNTP	NTP/SNTP	—	—
Security				
802.1X	Support	Support	—	—
HTTPS/SSL	Support	Support	—	—
Port security binding	Support	Support	—	—
ACL	Support	Support	—	—
RADIUS	—	—	—	—


Industrial Specific Switch

Embedded Ethernet Switch		
Model	CISCOM7110S-2GF-3D-2C	CISCOM7110-3GF-2D-2C
		
Port Number	10	10
10/100M RJ45 port	4/5/6/7/8	1/3/4/5/6/7
10/100/1000M RJ45 port	—	—
100M fiber port	1/2/3/4	1/2/3/4/6/7
1000M SFP fiber port	2	3
Serial port	3	2
CAN port	2	2
Power		
Power input	DC12/24/48V	DC12/24/48V
Consumption	< 7W(MAX)	< 9W(MAX)
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	180×135×17.5	180×135×17.5
Switching Performance		
Switching bandwidth	5.6Gbps	7.6Gbps
MAC table	8K	8K
IGMP Group	—	—
Basic Function		
QoS/VLAN	Support	Support
Port static trunk/LACP	Support	Support
IGMP v1/v2/v3 multicast	Support	Support
Broadcast storm suppression	Support	Support
Redundancy Protocol		
MW-Ring	Support	Support
ERPS/EAPS	Support	Support
MSTP(RSTP/STP)	Support	Support
Data Interface		
RS232	Support	Support
RS485	Support	Support
CAN	Support	Support
Management		
SNMPv1/v2	Support	Support
LLDP	Support	Support
DHCP	Support	Support
RMON	Support	Support
GVRP	Support	Support
GMRP	Support	Support
NST/SNTP	Support	Support
Security		
802.1X	Support	Support
HTTPS/SSL	Support	Support
Port security binding	Support	Support
ACL	Support	Support
RADIUS	—	—




Industrial Specific Switch

Embedded Ethernet Switch		
Model	CIEN5108-4D-2C	CIEN5105-2D-2C
		
Port Number	8	5
10/100M RJ45 port	4/6/8	3/5
10/100/1000M RJ45 port	—	—
100M fiber port	2/4	2
1000M SFP fiber port	—	—
Serial port	4	2
CAN port	2	2
Power		
Power input	DC9-36V	DC12V~48V
Consumption	<7W(MAX)	<5W(MAX)
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	180×130×24.2 180×147×31	160×135
Switching Performance		
Switching bandwidth	2Gbps	1Gbps
MAC table	2K	2K
IGMP Group	—	—
Basic Function		
QoS/VLAN	Support	Support
Port static trunk/LACP	Support	Support
IGMP v1/v2/v3 multicast	Support	Support
Broadcast storm suppression	Support	Support
Redundancy Protocol		
MW-Ring	Support	Support
ERPS/EAPS	Support	Support
MSTP(RSTP/STP)	Support	Support
Data Interface		
RS232	Support	Support
RS485	Support	Support
CAN	Support	Support
Management		
SNMPv1/v2	—	—
LLDP	Support	Support
DHCP	—	—
RMON	—	—
GVRP	—	—
GMRP	—	—
NST/SNTP	—	—
Security		
802.1X	—	—
HTTPS/SSL	—	—
Port security binding	—	—
ACL	—	—
RADIUS	—	—



Industrial Specific Switch

Embedded Ethernet Switch				
Model	CIEN-5105BP-2D	CIEN5105C-2D	CIEN5105A	CIEN5104-2FCE
				
Port Number	5	5	5	4
10/100M RJ45 port	2	2/3	3	2
10/100/1000M RJ45 port	—	—	—	—
100M fiber port	3	3/2	2	2
BY-PASS	Support	—	—	—
Serial port	2	2	—	—
CAN port	2	2	—	—
Power				
Power input	DC5V~32V	DC5V~32V	DC5V~32V	DC5V~32V
Consumption	<3.67W(MAX)	<3.67W(MAX)	<2.376W(MAX)	<2.39W(MAX)
Working Environment				
Operating temperature	-20℃~+70℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Embedded	Embedded	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	39×116.5×107.5	17×116.5×107.5	106×66×17	95×72×16
Switching Performance				
Switching bandwidth	1.2Gbps	1.2Gbps	1.2Gbps	1.2Gbps
MAC table	2K	2K	2K	2K
IGMP Group	—	—	—	—
Basic Function				
QoS/VLAN	Support	Support	Support	Support
Port static trunk/LACP	Support	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support	Support
Broadcast storm suppression	Support	Support	Support	Support
Redundancy Protocol				
MW-Ring	Support	Support	Support	Support
ERPS	—	—	—	—
RSTP/STP	Support	Support	Support	Support
Layer3 Software Property				
Routing function	—	—	—	—
Multicast routing	—	—	—	—
VRRP	—	—	—	—
Management				
SNMPv1/v2	—	—	—	—
LLDP	Support	Support	Support	Support
DHCP	—	—	—	—
RMON	—	—	—	—
GVRP	—	—	—	—
GMRP	—	—	—	—
NST/SNTP	—	—	—	—
Security				
802.1X	—	—	—	—
HTTPS/SSL	—	—	—	—
Port security binding	—	—	—	—
ACL	—	—	—	—
RADIUS	—	—	—	—





Industrial Specific Switch

Embedded Ethernet Switch			
Model	CES2105A	CES2105B	CES105M
			
Port Number	5	5	5
10/100M RJ45 port	3	3	3/2
10/100/1000M RJ45 port	—	—	—
100M fiber port	2	2	2/3
BY-PASS	—	—	—
Serial port	—	—	—
Gigabit Combo port	—	—	—
Power			
Power input	DC5V-32V	DC5V-32V	DC5-32V
Consumption	<1.95W(MAX)	<1.97W(MAX)	<4W(MAX)
Working Environment			
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Embedded	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	106×66×13.6	116×78×16	120×70×13.6
Switching Performance			
Switching bandwidth	1Gbps	1Gbps	1.2Gbps
MAC table	2K	2K	2K
IGMP Group	—	—	—

Industrial Specific Switch

Embedded Ethernet Switch		
Model	CES2105	CES2103
		
Port Number	5	3
10/100M RJ45 port	4/3/2	2
10/100/1000M RJ45 port	—	—
100M fiber port	1/2/3	1
1000M SFP fiber port	—	—
BY-PASS	—	—
Gigabit Combo port	—	—
Power		
Power input	DC9V~24V	DC9V~24V
Consumption	<2.4W(MAX)	<1.29W(MAX)
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	76×66×33.2	76×66×13.6
Switching Performance		
Switching bandwidth	1Gbps	1Gbps
MAC table	2K	2K
IGMP Group	—	—

Industrial Specific Switch

Embedded Ethernet Switch				
Model	Cport1204A	Cport1204A-2F	Cport1204-F	Cport1101A
				
Port Number	4	4	4	1
10/100M RJ45 port	4	2	2	1
10/100/1000M RJ45 port	—	—	—	—
100M fiber port	—	2	1	—
1000M SFP fiber port	—	—	—	—
1G/10G SFP+fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	DC12~32V	DC12~32V	DC12~32V	DC12V
Consumption	7.2W(MAX)	7.2W(MAX)	5.9W(MAX)	2.7W(MAX)
Working Environment				
Operating temperature	-10℃~+70℃	-10℃~+70℃	-10℃~+70℃	-10℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Embedded	Embedded	Embedded	Embedded
Dimension(L)*(W)*(H)(mm)	155×125×18	155×125×18	76×90×35.7	76×76×15
Switching Performance				
Switching bandwidth	—	—	—	—
MAC table	—	—	—	—
IGMP Group	—	—	—	—

Industrial Specific Switch

Rail Transit Switch				
Model	CTS8012G-M12	CTS8212G-M12	CTS7012G-M12	CTS7212G-M12
<div><div></div><div></div><div></div><div></div></div>				
Port Number	12	12	12	12
10/100M M12 D-code	—	—	—	—
10/100/1000M M12 X-code	12	12	12	12
10/100M POE	—	—	—	—
100/1000M POE	—	—	—	—
10/100/1000M BY-PASS port	4	—	4	—
Power				
Power input	DC24V/48V/110V/220V	DC24V/48V/110V	DC24V/48V/110V/220V	DC24V/48V/110V
Consumption	<15W(MAX)	<15W(MAX)	<15W(MAX)	<15W(MAX)
Working Environment				
Operating temperature	-40℃~+70℃	-40℃~+70℃	-40℃~+70℃	-40℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Rack Mount	Wall-mounting	Rack Mount	Wall-mounting
Dimension(L)*(W)*(H)(mm)	482.6×44×210	180×170×50.5	482.6×44×210	180×170×50.5
Switching Performance				
Switching bandwidth	24Gbps	24Gbps	24Gbps	24Gbps
MAC table	16K	16K	16K	16K
IGMP Group	512	512	—	—
Basic Function				
QoS/VLAN	Support	Support	Support	Support
Port static trunk/LACP	Support	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support	Support
Broadcast storm suppression	Support	Support	Support	Support
Redundancy Protocol				
MW-Ring	Support	Support	Support	Support
ERPS/EAPS	Support	Support	Support	Support
MSTP(RSTP/STP)	Support	Support	Support	Support
Layer3 Software Property				
Routing function	Static,RI,OSPF	Static,RI,OSPF	—	—
Multicast routing	PIM-SM/PIM-DM	PIM-SM/PIM-DM	—	—
VRRP	Support	Support	Support	Support
Management				
SNMPv1/v2/v3	Support	Support	Support	Support
LLDP	Support	Support	Support	Support
DHCP	Server	Server	Server	Server
RMON	Support	Support	Support	Support
GVRP	Support	Support	Support	Support
GMRP	Support	Support	Support	Support
NST/SNTP	SNTP	SNTP	SNTP	SNTP
Security				
802.1X	Support	Support	Support	Support
HTTPS/SSL	Support	Support	Support	Support
Port security binding	Support	Support	Support	Support
ACL	Support	Support	Support	Support
RADIUS	Support	Support	Support	Support

Industrial Specific Switch

Rail Transit Switch			
Model	CTS8116BP	CTS6116BP	CTS2209-M12
<div><div></div><div></div><div></div></div>			
Port Number	16	16	9
10/100M M12 D-code	12	12	9
10/100/1000M M12 X-code	—	—	—
10/100M POE	—	—	—
100/1000M POE	—	—	—
10/100/1000M BY-PASS port	4	4	—
Power			
Power input	DC24V	DC24V	9~36VDC
Consumption	<10W(MAX)	<8W(MAX)	<5W(MAX)
Working Environment			
Operating temperature	-40℃~+70℃	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Plug-in installation	Plug-in installation	Desktop, wall-mounted
Dimension(L)*(W)*(H)(mm)	157×104×116.5	157×104×116.5	195×50.5×104
Switching Performance			
Switching bandwidth	24Gbps	24Gbps	1.8Gbps
MAC table	16K	8K	2K
IGMP Group	512	—	—
Basic Function			
QoS/VLAN	Support	Support	—
Port static trunk/LACP	Support	Support	—
IGMP v1/v2/v3 multicast	Support	Support	—
Broadcast storm suppression	Support	Support	—
Redundancy Protocol			
MW-Ring	Support	Support	—
ERPS/EAPS	Support	Support	—
MSTP(RSTP/STP)	Support	Support	—
Layer3 Software Property			
Routing function	Static,RI,OSPF	—	—
Multicast routing	PIM-SM/PIM-DM	—	—
VRRP	Support	—	—
Management			
SNMPv1/v2/v3	Support	Support	—
LLDP	Support	Support	—
DHCP	Server	Server	—
RMON	Support	Support	—
GVRP	Support	Support	—
GMRP	Support	Support	—
NST/SNTP	SNTP	SNTP	—
Security			
802.1X	Support	Support	—
HTTPS/SSL	Support	Support	—
Port security binding	Support	Support	—
ACL	Support	Support	—
RADIUS	Support	Support	—

Industrial Specific Switch

IEC61850 Industrial Ethernet Switch				
Model	CISCOM7028-4GC	CISCOM7028-4GC-4F	CISCOM7028-4GC-8F	CISCOM7028-4GC-16F
<div><div></div><div></div><div></div><div></div></div>				
Port Number	28	28	28	28
10/100M RJ45 port	24	20	16	8
10/100/1000M RJ45 port	—	—	—	—
100M fiber port	—	4	8	16
1000M combo port	4	4	4	4
1/10G SFP+ fiber port	—	—	—	—
Gigabit Combo port	—	—	—	—
Power				
Power input	AC/DC220V	AC/DC220V	AC/DC220V	AC/DC220V
Consumption	<40W (MAX)	<40W (MAX)	<40W (MAX)	<40W (MAX)
Working Environment				
Operating temperature	-40℃~+75℃	-40℃~+75℃	-40℃~+75℃	-40℃~+75℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Rack Mount	Rack Mount	Rack Mount	Rack Mount
Dimension(L)*W)*(H)(mm)	482.6×44×210	482.6×44×210	482.6×44×210	482.6×44×210
Switching Performance				
Switching bandwidth	12.8Gbps	12.8Gbps	12.8Gbps	12.8Gbps
MAC table	8K	8K	8K	8K
IGMP Group	—	—	—	—
Basic Function				
QoS/VLAN	Support	Support	Support	Support
Port static trunk/LACP	Support	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support	Support
Broadcast storm suppression	Support	Support	Support	Support
Redundancy Protocol				
MW-Ring	Support	Support	Support	Support
ERPS	Support	Support	Support	Support
RSTP/STP	Support	Support	Support	Support
Layer3 Software Property				
Layer 3 routing	—	—	—	—
Multicast routing	—	—	—	—
VRRP	—	—	—	—
Management				
SNMPv1/v2/v3	Support	Support	Support	Support
LLDP	Support	Support	Support	Support
DHCP	Support	Support	Support	Support
RMON	Support	Support	Support	Support
GVRP	Support	Support	Support	Support
GMRP	Support	Support	Support	Support
Device management	Support	Support	Support	Support
Security				
802.1X	Support	Support	Support	Support
HTTPS/SSL	Support	Support	Support	Support
Port security binding	Support	Support	Support	Support
ACL	Support	Support	Support	Support
RADIUS	Support	Support	Support	Support

Industrial Specific Switch

IEC61850 Industrial Ethernet Switch				
Model	CISCOM7028-4GF-24F	CISCOM6026-2F		
<div><div></div><div></div></div>				
Port Number	28	26		
10/100M RJ45 port	—	24		
10/100/1000M RJ45 port	—	—		
100M fiber port	24	2		
1000M SFP fiber port	4	—		
1/10G SFP+ fiber port	—	—		
Gigabit Combo port	—	—		
Power				
Power input	AC/DC220V	AC/DC220V		
Consumption	<40W(MAX)	<40W(MAX)		
Working Environment				
Operating temperature	-40℃~+75℃	-40℃~+75℃		
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)		
Physical Parameter				
Installation	Rack Mount	Rack Mount		
Dimension(L)*W)*(H)(mm)	482.6×44×315	482.6×44×210		
Switching Performance				
Switching bandwidth	12.8Gbps	8.8Gbps		
MAC table	8K	8K		
IGMP Group	—	—		
Basic Function				
QoS/VLAN	Support	Support		
Port static trunk/LACP	Support	Support		
IGMP v1/v2/v3 multicast	Support	Support		
Broadcast storm suppression	Support	Support		
Redundancy Protocol				
MW-Ring	Support	Support		
ERPS	Support	Support		
RSTP/STP	Support	Support		
Layer3 Software Property				
Layer 3 routing	—	—		
Multicast routing	—	—		
VRRP	—	—		
Management				
SNMPv1/v2/v3	Support	Support		
LLDP	Support	Support		
DHCP	Support	Support		
RMON	Support	Support		
GVRP	Support	Support		
GMRP	Support	Support		
Device management	Support	Support		
Security				
802.1X	Support	Support		
HTTPS/SSL	Support	Support		
Port security binding	Support	Support		
ACL	Support	Support		
RADIUS	Support	Support		

INDUSTRIAL WIRELESS





Industrial Wireless AP/AC • Industrial Wireless Router •
Industrial Cellular Wireless DTU • Lora&NB-IoT •



Industrial Wireless

Industrial Wireless AP/AC		
Model	CIAP705G-GC-G-4GT	CIAP7102G-ExI
<div></div>		
Network Parameter		
Router operating mode	Fat AP: Routing/bridging mode(phase 2) Fit AP: bridging mode	Routing, AP, network bridge, Client mode
WAN protocol	DHCP,static IP, PPPoE (in fat AP mode only)	DHCP, Static IP, PPPoE
Routing forward	Support the built-in firewall and virtual address conversion (NAT), support static routing tables	
WAN/LAN config	WAN up link:support WAN,DHCP,static IP;not support extended VLAN number LAN:support DHCP Server in fat AP mode,IP/MAC binding;not support DHCP server in fit AP mode;LAN/WAN works as switch in the same network segment;IP is assigned uniformly by the previous level	WAN up link:support WAN,DHCP,static IP; LAN port:support DHCP Server and IP/MAC binding in routing mode;not support DHCP server in bridging mode, LAN/WAN works as switch in the same network segment; IP is assigned uniformly by the previous level
Interface Parameter		
Network port	WAN:1x10/100/1000Base-T(X) RJ45(no POE power reception function) LAN:1x10/100/ 1000Base-T(X) RJ45(POE power reception support) Optic port: 1-way	WAN:1x10/100/1000Base-T(X) RJ45 or gigabit adaptive SFP LAN:1x10/100/1000Base-T(X) RJ45
Debug serial port	1-way RJ45 interface	3P-2.54mm terminal block
Antenna	2 Wi-Fi antennas,support both 2.4G and 5.8G	
Wi-Fi Specification		
Standard and frequency band	Support 802.11b/g/n/ax,2.4GHz,802.11a/n/ac/ax,5.8GHz	
Antenna config	2.4 GHz: 2x2/40 MHz、 5 GHz: 2x2/80 MHz	
Transmission power	2.4G max 28dBm、 5.8G max 26dBm	
Channel bandwidth	2.4G:20mhz,40mhz、 5.8G:20mhz,40mhz,80mhz	
Fast and seamless roaming	Multi-AP fast roaming technology,the roaming switching time <50ms Support two roaming modes: AC-controlled roaming,802.11k/v/r roaming	
Receiving sensitivity	5.8GHz: -64.5 dBm (VHT80/MCS9/2SS),-59.0 dBm (VHT80/MCS11/2SS) -64.0 dBm (HE80/MCS9/2SS),-58.0 dBm (HE80/MCS11/2SS) 2.4GHz: -69.0 dBm (VHT40/MCS9/2SS),-63.0 dBm (VHT40/MCS11/2SS) -68.5 dBm (HT40/MCS9/2SS),-63.0 dBm (HE40/MCS11/2S)	
Transmission power	2.4G max 28dBm,5.8G max 26dBm	
Max number of access users	Max users:256(there may be differences in actual scenarios) Recommended users:<64 (20 for 2.4G and 63 for 5.8G)	
Power Supply		
Power input	DC9~36V,1x5pin terminal dual power redundant input	DC12~48V,3P-5.08 terminal power input
Operating current	—	10W
Working Environment		
Working temperature	-40℃~+70℃	-40℃~+75℃
Relative humidity	5%~95%(Non-condensation)	5%~95%(Non-condensation)
Physical Parameter		
Installation	Din Rail	Embedded installation
Dimension(L)*(W)*(H)(mm)	140×54×110	128×85×19.5
Safety Protection		
Static electricity	Level 3	Level 3B
Pulse group	Level 4	Level 2A
Surge	Level 4	Level 2B
Firewall		
Firewall	Support firewall,port mapping, DMZ host,UPnP,access control black and white list (only supported in fat AP mode)	
QoS	Support IP speed limit,MAC speed limit, flow limit,support QoS;(only supported in fat AP mode)	





Industrial Wireless

Industrial Wireless Router				
Model	CIR785-W	CIR785R	CIR685-W	CIR682R
<div></div>				
Network Parameter				
Network system	China Mobile/Unicom/ Telecom 5G,4G and 3G	China Mobile/Unicom/ Telecom 5G,4G and 3G	China Mobile/Unicom/ Telecom 5G,4G and 3G	China Mobile/Unicom/ Telecom 5G,4G and 3G
Working- frequency Band	5G NR NSA/SA,LTE-FDD, LTE-TDD,WCDMA, GNSS: GPS/GLONASS/ BeiDou/Galileo	5G NR NSA/SA, LTE-FDD, LTE-TDD,WCDMA, GNSS: GPS/GLONASS/ BeiDou/Galileo	5G NR NSA/SA,LTE-FDD, LTE-TDD WCDMA GNSS:GPS/BeiDou/ GLONASS	5G NR NSA/SA,LTE-FDD, LTE-TDD WCDMA GNSS:GPS/BeiDou/ GLONASS
Quantity of antenna	4	4	4	4
Antenna interface	SMA(outer screw and inner hole)	SMA(outer screw and inner hole)	SMA(outer screw and inner hole)	SMA(outer screw and inner hole)
SIM card	Dual card slots, single standby	Dual card slots, single standby	Dual card slots, single standby	Dual card slots, single standby
Wi-Fi Specification				
Antenna standard	2.4GHz 802.11b/g/n/ax 5.8GHz 802.11a/n/ac/ax		802.11b/g/n	
Quantity of antenna	2		2	
Antenna interface	SMA(outer screw and inner hole)		SMA(outer screw and inner hole)	
Interface				
Isolation protection	1.5kV	1.5kV	1.5kV	1.5kV
LAN interface	4×10/100/1000M RJ45	4×10/100/1000M RJ45	4×10/100M RJ45	1×10/100M RJ45
WAN interface	1×10/100/1000M RJ45	1×10/100/1000M RJ45	1×10/100M RJ45	1×10/100M RJ45
Serial Port				
Serial port interface	1×RS232+1×RS485	2*RS232/485	1*RS232/485	1*RS232/485
Power Parameter				
Power input	DC9~36V	DC9~60V	DC9~36V	DC9~60V
Working current	878mA@12V	300mA@12V	300mA@12V	220mA@12V
Power interface	DC power supply seat,terminal block input			
Power protection	Anti-surge, ESD protection, anti-reverse connection			
Working Environment				
Working temperature	-20℃~+70℃	-40℃~+75℃	-20℃~+70℃	-40℃~+75℃
Relative humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Desktop, wall-mounted	Din-Rail	Desktop, wall-mounted	Din-Rail
Dimension(L)*(W)*(H)(mm)	207x112x34.2	140x54x110	207x112x34.2	118x35x88
Basic Function				
DNS domain resolution	Support	Support	Support	Support
APN	Support	Support	Support	Support
Port mapping	Support	Support	Support	Support
Flow rate limit	Support	Support	Support	Support
DHCP	Support	Support	Support	Support
Static routing	Support	Support	Support	Support
PPPOE	Support	Support	Support	Support
Network diagnosis	Support	Support	Support	Support
System log	Support	Support	Support	Support
Web upgrade	Support	Support	Support	Support
Network backup	Support	Support	Support	Support
Watchdog	Support	Support	Support	Support
Restore factory settings	Support	Support	Support	Support
Timed restart	Support	Support	Support	Support
SNMP	Support	Support	Support	Support

Industrial Wireless

Industrial Wireless Router			
Model	CIR655R-W-AFX	CIR655R-W-EUX	CIR655R-W-AU
<div></div>			
Network Parameter			
Network system	Mobile:4G,2G Unicom:4G,3G,2G Telecom:3G		
Working- frequency Band	North America	Europe	Austria/Latins
Quantity of antenna	4		
Antenna interface	SMA(outer screw and inner hole)		
SIM card	Dual card slots, single standby		
WI-FI Specification			
Antenna standard	802.11b/g/n		
Quantity of antenna	2		
Antenna interface	SMA(outer screw and inner hole)		
Interface			
Isolation protection	1.5kV		
LAN interface	4×10/100M RJ45		
WAN interface	1×10/100M RJ45		
Serial Port			
Serial port interface	1*RS485		
Power Parameter			
Power input	DC9~36V		
Working current	317mA@12V		
Power interface	Terminal block input		
Power protection	Anti-surge, ESD protection, anti-reverse connection		
Working Environment			
Working temperature	-40℃~+70℃		
Relative humidity	5%~95%(Non-condensation)		
Physical Parameter			
Installation	Din Rail		
Dimension(L)*(W)*(H)(mm)	140x35x100		
Basic Function			
DNS domain resolution	Support		
APN	Support		
Port mapping	Support		
Flow rate limit	Support		
DHCP	Support		
Static routing	Support		
PPPOE	Support		
Network diagnosis	Support		
System log	Support		
Web upgrade	Support		
Network backup	Support		
Watchdog	Support		
Restore factory settings	Support		
Timed restart	Support		
SNMP	Support		




Industrial Wireless

Industrial Cellular Wireless DTU				Lora&NB-IoT
Model	CGT571	CGT551	CGT541	CNT351
<div></div>				
Serial Port Number	1	1	1	1
Serial mode	RS232/485/422	RS232/485/422	RS232/485/422	RS232/485/422
Serial spec	Terminal block	Terminal block	Terminal block	Terminal block
Serial isolation	—	—	—	—
Serial rate	600-460800(bps)	600-460800(bps)	600-460800(bps)	600-460800(bps)
Network System				
LTE FDD	B1/B3/B5/B8	B1/B3/B5/B8	B1/B3/B5/B8	B3/B5/B8
LTE TDD	B38/B39/B40/B41	B34/B38/B39/B40/B41	B34/B38/B39/B40/B41	—
WCDMA/TD-SCDMA	B1/B8/B34/B39	B1/B5/B8	—	—
CDMA	BCO	—	—	—
GSM	900/1800MHz	900/1800MHz	900/1800MHz	—
Wireless Communication				
2G network	Support	Support	Support	—
4G network	Support	Support	Support	—
5G network	—	—	—	—
Narrow band NB network	—	—	—	Support
Power Supply				
Power input	DC9~36V	DC9~36V	DC9~36V	DC9~36V
Working current	58mA@12V	68mA@12V	65mA@12V	16mA@12V
Working Environment				
Working temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Relative humidity	5%~95%(Non-condensation)	5%~95%(Non-condensation)	5%~95%(Non-condensation)	5%~95%(Non-condensation)
Physical Parameter				
Installation	Desktop, wall-mounted			
Dimensions(L)*(W)*(H)(mm)	96×90×26			
Basic Function				
Working mode	Simple and transparent transmission, Ali MQTT, China Mobile OneNET MQTT protocol, Modbus			
Socket quantity	2	2	2	2
RFC2217	—	—	—	—
Heartbeat packet detection	Support	Support	Support	Support
AT command config/query	Support	Support	Support	Support
SSL encryption	Support	Support	Support	—
MQTT	Ali MQTT/OneNET MQTT	Ali MQTT/OneNET MQTT	Ali MQTT/OneNET MQTT	Ali MQTT/OneNET MQTT
Modbus	Support	Support	Support	—
CN and EN text message	Support	Not support China Telecom	Not support China Telecom	—
Automatic link maintenance	Support	Support	Support	—
Clock service	—	—	—	—
VPN/IP SEC	—	—	—	—
802.1X	—	—	—	—
HTTPS/SSL	—	—	—	—
Port security binding	—	—	—	—
DHCP	—	—	—	—
RADIUS serve	—	—	—	—





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Industrial Device Networking

Serial to Ethernet Server			
Model	Cport3232	Cport3216-1	Cport3216
			
Serial Port Number	32	16	16
Serial port	RS-232/485/422	RS-485/422	RS-232/485
Interface	RJ45	5-pin terminals	5-pin terminals
Isolation	—	2KVAC/3KVDC	—
Rate	600~460800bps	300~460800bps	600~460800bps
Ethernet Port			
10/100M RJ45 port	—	—	—
10/100/1000M RJ45 port	—	—	2
100M FX port	—	—	—
1000M SFP port	—	—	—
1000M combo port	2	2	—
Power			
Power input	85~264VAC/110~370VDC	85~264VAC/110~370VDC	85~264VAC/110~370VDC
Consumption	6.5W@ AC220V	6.5W@ AC220V	6.5W@ AC220V
Working Environment			
Operating temperature	-40℃~+70℃	-40℃~+70℃	-40℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimensions(L)*(W)*(H)(mm)	440×210×44	440×210×44	440×210×44
Basic Function			
Network protocol	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217, NTP, TELNET, SNMP, TFTP		
IP access	Static IP/DHCP		
User configuration	Web page configuration /Console port network parameter configuration		
Transparent transmission	TCP Server/TCP Client/UDP Client/UDP Multicast/Pair Connection/Real COM		
Modbus	Modbus RTU/ASCII to Modbus TCP		
Serial port packaging mechanism	The time and length can be set. The default value varies according to the bit rate; The maximum packing length is 1460bytes		
TCP Server connection	8 channels		
Heartbeat packet	Support		
Registration packet	Support		
RFC2217	Support		
Average transmission delay	<10ms		



Industrial Device Networking

Serial to Ethernet Server		
Model	Cport3208	Cport3208-I
		
Serial Port Number	8	8
Serial port	RS-232/485	RS-485/422
Interface	5-pin terminals	5-pin terminals
Isolation	2KVAC/3KVDC	—
Rate	600~460800bps	600~460800bps
Ethernet port		
10/100M RJ45 port	2	2
10/100/1000M RJ45 port	—	—
100M FX port	—	—
1000M SFP port	—	—
1000M combo port	—	—
Power		
VoltagePower input	85~264VAC/110~370VDC	85~264VAC/110~370VDC
Consumption	2.5W@AC220V	4.5W@AC220V
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Rack Mount	Rack Mount
Dimension(L)*(W)*(H)(mm)	482.6x44x210	482.6x44x210
Basic function		
Network protocol	IPv4, IP, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217, NTP	
IP access	Static IP/DHCP	
User configuration	Web page configuration	
Transparent transmission	TCP Server/TCP Client/UDP Client/UDP Multicast/Pair Connection/Real COM	
Modbus	Modbus RTU/ASCII to Modbus TCP	
Serial port packaging mechanism	The time and length can be set. The default value varies according to the bit rate; The maximum packing length is 1460bytes	
TCP Server connection	8 channels	
Heartbeat packet	Support	
Registration packet	Support	
RFC2217	Support	
Average transmission delay	<10ms	




Industrial Device Networking

Serial to Ethernet Server		
Model	Cport3108-485	Cport3108-232
<div></div>		
Serial Port Number	8	8
Serial port	RS-485	RS-232
Interface	5-pin terminals	5-pin terminals
Isolation	1.5KV	1.5KV
Rate	600~460800bps	600~460800bps
Ethernet Port		
10/100M RJ45 port	1	1
10/100/1000M RJ45 port	—	—
100M FX port	—	—
1000M SFP port	—	—
1000M combo port	—	—
Power		
Power input	9~36V	9~36V
Consumption	91mA@12V	91mA@12V
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Desktop, wall-mounted	Desktop, wall-mounted
Dimension(L)*(W)*(H)(mm)	270x112x34.20	270x112x34.20
Basic Function		
Network protocol	IPv4, IP, TCP/UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217	
IP access	Static IP/DHCP	
User configuration	Web page configuration	
Transparent transmission	TCP Server/TCP Client/UDP Client/UDP Multicast/RealCOM/Pair Connection	
Modbus	Modbus RTU/ASCII to Modbus TCP	
Serial port packaging mechanism	The time and length can be set. The default value varies according to the bit rate; The maximum packing length is 1460bytes	
TCP Server connection	8 channels	
Heartbeat packet	Support	
Registration packet	Support	
RFC2217	Support	
Average transmission delay	<10ms	

Industrial Device Networking

Serial to Ethernet Server		
Model	Cport3104-I	Cport3104
<div></div>		
Serial Port Number	4	4
Serial port	RS-485/422	RS-232/485
Interface	5-pin terminals	5-pin terminals
Isolation	3KVDC	—
Rate	600~460800bps	600~460800bps
Ethernet port		
10/100M RJ45 port	1	1
10/100/1000M RJ45 port	—	—
100M FX port	—	—
1000M SFP port	—	—
1000M combo port	—	—
Power		
Power input	9~36V	9~36V
Consumption	104mA@12V	66mA@12V
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Desktop, wall-mounted	Desktop, wall-mounted
Dimension(L)*(W)*(H)(mm)	270x112x34.20	270x112x34.20
Basic Function		
Network protocol	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217	
IP access	Static IP/DHCP	
User configuration	Web page configuration	
Transparent transmission	TCP Server/TCP Client/UDP Client/UDP Multicast/Pair Connection/Real COM	
Modbus	Modbus RTU/ASCII to Modbus TCP	
Serial port packaging mechanism	The time and length can be set. The default value varies according to the bit rate; The maximum packing length is 1460bytes	
TCP Server connection	8 channels	
Heartbeat packet	Support	
Registration packet	Support	
RFC2217	Support	
Average transmission delay	<10ms	

Industrial Device Networking

Serial to Ethernet Server			
Model	Cport3102-I	Cport3102	Cport3102R
			
Serial Port Number	2	2	2
Serial port	RS-485/422	RS-232+RS-485/422	RS-485/232
Interface	RS-485/422 5-pin terminals	RS232:DB9M RS-485/422 5-pin terminals	RS-485/232 14-pin terminals
Isolation	3KVDC	—	—
Rate	600~460800bps	600~460800bps	600~460800bps
Ethernet Port			
10/100M RJ45 port	1	1	1
10/100/1000M RJ45 port	—	—	—
100M FX port	—	—	—
1000M SFP port	—	—	—
1000M combo port	—	—	—
Power			
VoltagePower input	9~36V	9~36V	9~36V
Consumption	78mA@12V	39mA@12V	43mA@12V
Working Environment			
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
Installation	Desktop, wall-mounted	Desktop, wall-mounted	Din Rail
Dimension(L)*(W)*(H)(mm)	162×95×29	96×90×26	103×72.2×33.8
Basic Function			
Network protocol	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217
IP access	Static IP/DHCP	Static IP/DHCP	Static IP/DHCP
User configuration	Web page configuration	Web page configuration	Web page configuration
Transparent transmission	TCP Server/TCP Client/UDP Client/UDP Multicast/Pair Connection/Real COM		
Modbus	Modbus RTU/ASCII to Modbus TCP		
Serial port packaging mechanism	The time and length can be set. The default value varies according to the bit rate; The maximum packing length is 1460bytes		
TCP Server connection	8 channels	8 channels	8 channels
Heartbeat packet	Support	Support	Support
Registration packet	Support	Support	Support
RFC2217	Support	Support	Support
Average transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial to Ethernet Server				
Model	Cport3101-I	Cport3101	Cport3101-W	Cport 3101R
				
Serial Port Number	1	1	1	1
Serial port	RS-232/RS-485/422	RS-232/RS-485/422	RS-232/RS-485/422	RS-232/RS-485
Interface	RS232: DB9 male RS-485/422:5-pin terminals			RS-232/485:5-pin terminals
Isolation	2KV DC	—	—	—
Rate	600~460800bps	600~460800bps	300~230400bps	600~460800bps
Ethernet Port				
10/100M RJ45 port	1	1	1	1
10/100/1000M RJ45 port	—	—	—	—
100M FX port	—	—	—	—
1000M SFP port	—	—	—	—
1000M combo port	—	—	—	—
Power				
VoltagePower input	9~36V	9~36V	9~36V	9~36V
Consumption	83mA@12V	37mA@12V	37mA@12V	43mA@12V
Working Environment				
Operating temperature	-40℃~+85℃	-40℃~+85℃	-40℃~+70℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter				
Installation	Desktop, wall-mounted	Desktop, wall-mounted	Desktop, wall-mounted	Din Rail
Dimension(L)*(W)*(H)(mm)	96×90×26	96×90×26	96×90×26	87.5×36.5×58.7
Wireless				
Wireless standard	—	—	802.11b/g/n	—
Antenna	—	—	1	—
Antenna interface	—	—	SMA	—
Wi-Fi	—	—	AP/Client/AP+Client	—
Safety protocol	—	—	WEP/WPA/PSK/WPA2/PSK	—
Basic Function				
Network protocol	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217	IP, TCP, UDP, ARP, ICMP, DHCP Client, DNS, HTTP, SNMP, NTP, FTP, Modbus TCP, UPNP	IPv4, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217
IP access	Static IP/DHCP	Static IP/DHCP	Static IP/DHCP/PPPoE/AUTO-IP	Static IP/DHCP
User configuration	Web page configuration	Web page configuration	Web page configuration	Web page configuration
Transparent transmission	TCP Server/TCP Client/UDP Client/UDP Multicast/Pair Connection/Real COM			
Modbus	Modbus RTU/ASCII to Modbus TCP			
Serial port packaging mechanism	The time and length can be set. The default value varies according to the bit rate; The maximum packing length is 1460bytes			
TCP Server connection	8 channels	8 channels	8 channels	8 channels
Heartbeat packet	Support	Support	Support	Support
Registration packet	Support	Support	Support	Support
RFC2217	Support	Support	Support	Support
Average transmission delay	<10ms	<10ms	<10ms	<10ms

Industrial Device Networking

CAN to Ethernet Converter		
Model	CS-CANET300	CS-CANET200
<div></div>		
Network Port	1	1
Ethernet port	1*10/100Mbps, support MDI/MDIX crossover direct connection and automatic flip	
Power		
Power input	DC9~36V	DC9~36V
Consumption	65mA@12V	63mA@12V
CAN Parameter		
CAN port number	1 Road	2 Road
Way to work	Normal, Loopback, Listen Only	Normal, Loopback, Listen Only
CAN Baud rate	5K-1M (bps)	5K-1M (bps)
CAN protect	2KVAC	2KVAC
Matching resistance	Wiring terminal configuration	Wiring terminal configuration
Serial port parameter		
Serial port number	1-way RS232/485	—
Baud rate	600~460800(bps)	—
Data bit	7, 8	—
Stop bit	1, 2	—
Check bit	None\Odd parity\Parity checking	—
Working Environment		
Operating temperature	-40℃~+85℃	-40℃~+85℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter		
Installation	Desktop, wall-mounted	Desktop , wall-mounted
Dimension(L)*(W)*(H)(mm)	162×95×29	162×95×29
Software parameter		
CAN ID filtering function	Support	Support
CAN additional features	CAN turn RS232/RS485	CAN relay
CAN transceiver capability	Send: 6000 frames/sec; Receive: 8000 frames/sec;	
CAN cache	Send: 200 complete packets (per channel); Receive: 200 complete packets (per channel)	
Serial port cache	Send: 1.5Kbyte; Receive: 1.5Kbyte	—
RFC2217	Support	—
Network connection number	Supports a maximum of four network connections	Supports a maximum of four network connections
Heartbeat packet	Support	Support
Registration packet	Support	Support
Average transmission delay	<10ms	<10ms
Static IP,DHCP	Support	Support
No data timeout restart	Support	Support



Industrial Device Networking

Industrial Smart Gateway		
Model	Cgate600	Cgate500
<div></div>		
basic parameter		
CPU	ARM Cortex-A8 32-Bit, main freq.1GHz	ARM ARM926EJ-S, main freq.300MHz
Memory	1GByte DDR3	128MB DDR2
Flash	64MB SPI Nor Flash	32MB SPI Nor Flash
EMMC/SD	8GByte	8GB EMMC and Micro SD card
OS	Linux 3.0 above	Linux 3.0 above
Network Port		
Network port type	2*10/100/1000Base-T adaptive RJ45 interface	10/100Mbps adaptive RJ45 interface
Isolation	1.5KV	1.5KV
Debug Serial Port		
Serial port number	1-way RJ45 to DB9, using USB2.0 HOST interface	1-way USB debugging port, in the form of Micro-USB interface
Parameter	Baud rate: 115200, Data bits: 8, Parity Bit: none, Stop Bit: 1, Flow Control: none	Baud rate: 115200, Data bits: 8, Parity Bit: none, Stop Bit: 1, Flow Control: none
Serial Port		
Serial port number	8*RJ45	4*RS485
Parameter	1200~115200 (bps); 1/1.5/2 stop bits; 5/6/7/8 data bits; None, odd parity, even parity, three validation methods	1200~460800 (bps); 1/1.5/2 stop bits; 5/6/7/8 data bits; None, odd parity, even parity, three validation methods
Isolation	2KVAC/3KVDC	2KVAC/3KVDC
Storage Card		
Quantity	—	1
Specification	—	Micro SD
DI/DO		
Channel	3	2
Input	Level signal	Level signal
Level range	Wet contact: logic level 0: no external power input; Logic level 1: with external 9~30V external power input	Wet contact: logic level 0: no external power input; Logic level 1: with external 9~30V external power input
4G		
Network	Mobile/Unicom/Telecom 4G(4 modes 14 bands)	CAT4: Mobile/Unicom/Telecom 4G, M (4-mode 14-band)
SIM Card Slot		
Quantity	1	2
Voltage	3V, 1.8V	3V, 1.8V
Size	Standard	Standard
GPS		
Default galaxy configuration	—	GPS + BeiDou
Frequency	—	GPS L1 C/A: 1575.42 ±1.023 MHz BeiDou B1I: 1561.098 ±2.046 MHz
Power		
Voltage	AC85-264V/DC110-370V	DC9~48V
Consumption	8W@AC220V	2.54W@DC12V
Quantity	Single power input, external battery input interface	2-way power supply mutual backup redundant design
Working environment		
Working environment	-25℃~+70℃	-40℃~+75℃
Relative humidity	5%~95%(No condensation)	5%~95%(No condensation)
Physical		
Installation	Din Rail	Din Rail
Dimensions(L)*(W)*(H)(mm)	156×72×120	140×54×110




Industrial Device Networking

Serial to Fiber Modem				
Model	CSF516-4F	CSF516-8F	CSF516-10F	CSF516-16F
<div><div></div><div></div><div></div><div></div></div>				
Serial Port				
Serial port type	RS232/485/422 are available	RS232/485/422 are available	RS232/485/422 are available	RS232/485/422 are available
Serial port number	1	1	1	1
Rate	300bps~115.2Kbps	300bps~115.2Kbps	300bps~115.2Kbps	300bps~115.2Kbps
Signal delay	—	—	—	—
Protection	—	—	—	—
Terminal resistance	—	—	—	—
Fiber Port				
Fiber port type	Single mode/multimode	Single mode/multimode	Single mode/multimode	Single mode/multimode
Serial port number	4	8	10	16
Wavelength	Single mode 1310/1550nm, multimode 850/1310			
Transmission fiber	Single mode 9/125umMultimode 50/125um, 62.5/125um			
Transmission distance	Single mode 20/40/60/80km multimode 2~5km			
Bit error rate of optical line	≤10 ⁻⁹			
Transmitted optical power	≥-8dBm			
Reception sensitivity	≤-20dBm			
Technical Standard				
Standard	RS232,RS485,RS422			
Indicator Light				
Power	POW			
Main/Slave station	—			
Run	TXD,RXD			
Power				
Voltage	AC85~256V/DC110~380V			
Consumption	< 5W(MAX)			
Protection	Overload protection, 600W/ms lightning protection, 15KV electrostatic protection			
Working Environment				
Working temperature	-20℃~+70℃			
Ambient humidity	5%~95%(No condensation)			
Physical Parameter				
IP protection	IP30			
Dimension(L)*(W)*(H)(mm)	483×44×210			




Industrial Device Networking

Serial to Fiber Modem		
Model	CSF208-F	CSF204-F
<div><div></div><div></div></div>		
Serial Port		
Serial port type	RS232/485/422 are available	RS232/485/422 are available
Num. of serial port	8	4
Rate	300bps~115.2Kbps	300bps~115.2Kbps
Signal delay	—	—
Protection	—	—
Terminal resistance	—	—
Fiber Port		
Fiber port type	Single mode/multimode	Single mode/multimode
Serial port number	4	16
Wavelength	Single mode 1310/1550nm multimode 850/1310	
Transmission fiber	Single mode 9/125um Multimode 50/125um, 62.5/125um	
Transmission distance	Single mode 20/40/60/80km multimode 2~5km	
Bit error rate of optical line	≤10 ⁻⁹	
Transmitted optical power	≥-10dBm	
Reception sensitivity	≤-34dBm	
Technical Standard		
Standard	RS232/485/422	
Indicator Light		
Power	POW	
Main/Slave station	—	
Run	TXD、RXD、TX1-TX8、RX1-RX8、ERR	
Power		
Voltage	DC5~12V	
Consumption	< 5W(MAX)	
Protection	600W/ms lightning protection, 15KV electrostatic protection	
Working Environment		
Working temperature	-20℃~+75℃	
Ambient humidity	5%~95%(No condensation)	
Physical Parameter		
IP protection	IP30	
Dimension(L)*(W)*(H)(mm)	225×96×30	


Industrial Device Networking

Serial to Fiber Modem			
Model	CSF201	CSF201-KG	CSF201-K
			
Serial Port			
Serial port type	Terminals/DB9	Terminals	DB9
Serial port number	1	1	1
Rate	300bps~115.2Kbps	300bps~115.2Kbps	300bps~115.2Kbps
Signal delay	100ns	100ns	100ns
Protection	15KVESD	15KVESD	15KVESD
Terminal resistance	External connection	External connection	External connection
Fiber Port			
Fiber port type	Single mode/multimode	Single mode/multimode	Single mode/multimode
Serial port number	1	1	1
Wavelength	Single mode 1310/1550nm, multimode 850/1310		
Transmission fiber	Single mode 9/125um Multimode 50/125um, 62.5/125um		
Transmission distance	Single mode 20/40/60/80km multimode 2~5km		
Bit error rate of optical line	<10 ⁻⁹	—	—
Transmitted optical power	≥-8dBm	≥-8dBm	≥-8dBm
Reception sensitivity	≤-20dBm	≤-20dBm	≤-20dBm
Technical Standard			
Standard	RS232,RS485/422	RS232,RS485/422	RS232,RS485/422
Indicator Light			
Power	POW	POW	POW
Main/Slave station	—	—	—
Run	TX/RX	TX/RX	TX/RX
Power			
Voltage	DC5~30V	DC5~30V/AC220V	DC5~30V/AC220V
Consumption	< 1W(MAX)	< 1W(MAX)	< 1W(MAX)
Protection	Overload protection 600W/ms lightning protection 15KV electrostatic protection	15KV electrostatic protection	15KV electrostatic protection
Working Environment			
Working temperature	-40℃~+85℃	-20℃~+70℃	-20℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	5%~95%(No condensation)
Physical Parameter			
IP protection	IP30	IP30	IP30
Dimension(L)*(W)*(H)(mm)	96×90×26	118×35×86	—


Industrial Device Networking


Serial to Fiber Converter			
Model	CSF501	CSF501-KG	CSF-CAN-F
			
Serial Port			
Serial port type	RS232/485/422 are available	RS232/485/422 are available	—
Serial port number	1	1	—
Rate	300bps~115.2Kbps	300bps~115.2Kbps	300bps~300Kbps
Signal delay	—	—	—
Protection	—	—	—
Terminal resistance	—	—	—
Fiber Port			
Fiber port type	Single mode/multimode	Single mode/multimode	Single mode/multimode
Serial port number	2	2	1
Wavelength	—	—	Single mode 1310/1550nm multimode 850/1310
Transmission fiber	Single mode 9/125um, Multimode 50/125um, 62.5/125um		
Transmission distance	—	—	Single mode 20/40/60/80km multimode 2~5km
Bit error rate of optical line	≤10 ⁻⁹	≤10 ⁻⁹	≤10 ⁻⁹
Transmitted optical power	-8.5dBm	-8.5dBm	-8dBm
Reception sensitivity	-38dBm	-38dBm	-20dBm
Technical Standard			
Standard	RS232,RS485/422	RS232,RS485/422	CAN Bus
Indicator Light			
Power	—	PWR1, PWR2	POW
Main/Slave station	MAIN, SUB	MAIN, SUB	—
Run	LOOPA/B, TXA/B, RXA/B, TXD, RXD	LOOPA/B, TXA/B, RXA/B, TXD, RXD	—
Power			
Voltage	DC9~30V	DC12/24/48V, AC220V	DC5~30V
Consumption	< 2W(MAX)	< 5W(MAX)	< 1W(MAX)
Protection	Overload protection 600W/ms lightning protection 15KV electrostatic protection		—
Working Environment			
Working temperature	-20℃~+75℃	-20℃~+75℃	-20℃~+70℃
Ambient humidity	5%~95%(No condensation)	5%~95%(No condensation)	—
Physical Parameter			
IP protection	IP30	IP30	—
Dimension(L)*(W)*(H)(mm)	110×100×27	144×97×33	90×70×30

Industrial Device Networking

Interface Converter				
Model	CSE485-A	CSE485-B	CSE485-C	CSE485-D
				
Specification Parameter				
Interface standard	RS232\RS485 Standard	RS232\RS485 Standard	RS232\RS-485/RS422 Standard	RS232\RS-485/RS422 Standard
Interface form	DB9 for RS232 at one end, 4-pin terminal block at the other end	DB9 for RS232 at one end, 4-pin terminal block at the other end	DB9 for RS232 at one end, 6-pin terminal block at the other end	DB9 for RS232 at one end, 6-pin terminal block at the other end
Transmission mode	Arynchronous, semi-duplex, transparent transmission	Arynchronous, semi-duplex, transparent transmission	Arynchronous, semi/full duplex ,transparent transmission	Arynchronous, semi/full duplex ,transparent transmission
Transmission rate	300bps~115.2Kbps	300bps~38.4Kbps	300bps~115.2Kbps	300bps~38.4Kbps
Power supply	RS232 port power	External power supply of DC5V	RS232 port power	External power supply of DC5V
Isolation protection	No isolation	With isolation	No isolation	With isolation

Industrial Device Networking

Interface Converter				
Model	CSE232-H4	CSE485-H4	CSE485-HUB4	CSE485-HUB8
				
Specification Parameter				
Interface standard	RS232 standard	RS232\RS485 Standard	RS232\RS-485/RS422 Standard	RS232\RS-485/RS422 Standard
Input interface	RS-232	RS-232/RS-485	RS232\RS-485/RS422	RS232\RS-485/RS422
Output interface	4-way RS-232	4-way RS-485	4-way RS232\RS-485/RS422	4-way RS-485/RS422
Interface form	10-pin terminal block at 2 ends	10-pin terminal block at 2 ends	DB9 connectors at 2 ends	Terminal block at 2 ends
Transmission mode	Arynchronous, full-duplex, transparent transmission	Arynchronous, semi/full duplex, transparent transmission	Arynchronous, semi/full duplex, transparent transmission	Arynchronous, semi/full duplex, transparent transmission
Transmission rate	300bps~115.2Kbps	300bps~115.2Kbps	300bps~115.2Kbps	300bps~115.2Kbps
Power supply	External power supply of DC5V or DC9~30V	External power supply of DC5V or DC9~30V	External power supply of DC5V	External power supply of DC5V

Interface Converter				
Model	CSE485-E	CSE485-F	CSE485-TD	CSE485-TDM
				
Specification Parameter				
Interface standard	RS232\RS-485/RS422 Standard	RS232\RS485 Standard	RS232\RS-485/RS422 Standard	RS232\RS-485/RS422 Standard
Interface form	DB9 for RS232 at one end, 6-pin terminal block at the other end	DB9 for RS232 at one end, 4-pin terminal block at the other end	DB9 for RS232 at one end, 10-pin terminal block at the other end	DB9 for RS232 at one end, 10-pin terminal block at the other end
Transmission mode	Arynchronous, semi/full duplex ,transparent transmission	Arynchronous, semi-duplex, transparent transmission	Arynchronous, semi/full duplex, transparent transmission	Arynchronous, semi/full duplex, transparent transmission
Transmission rate	300bps~38.4Kbps	300bps~57.6Kbps	300bps~115.2Kbps	300bps~115.2Kbps
Power supply	RS232 port power	RS232 port power	External power supply of DC5V or DC9~30V	External power supply of DC5V or DC9~30V
Isolation protection	With isolation	With isolation	Isolation for 2 ends signals	Isolation for 3 ends signals and power

Interface Converter					
Model	CSE810	CSE820-A	CSE820B	CSE814	
					
Specification Parameter					
Interface standard	USB V1.0/2.0 standard	USB V1.0/2.0 and RS485/422 standard	USB V1.0/2.0 and RS232\RS485/422 standard	USB V1.0/2.0 and RS232 standard	
Conversion interface	RS-232	RS-485/RS-422	RS232\RS-485/RS422	4-way RS-232	
Direction control	Data flow automatic control	Data flow automatic control	Data flow automatic control	Data flow automatic control	
Interface form	DB9 male connector	5-pin terminal block	10-pin terminal block	10-pin terminal block	
Transmission mode	Arynchronous, full-duplex, transparent transmission	Arynchronous, semi/full duplex,transparent transmission			
Transmission rate	110bps~115.2Kbps	300bps~115.2Mbps	300bps~115.2Mbps	300bps~115.2Mbps	
Load capacity	Point-to-point	Multi-communication (128 nodes)	Point-to-point multi-drop communication (128 nodes)	Point-to-point	

Industrial Device Networking

Port Isolator				
Model	CSE232-A	CSE232-B	CSE232-C	CSE232-Y
				

Specification Parameter				
Interface standard	7-wire RS-232	3-wire RS-232	3-wire RS-232	3-wire RS-232
Interface form	DB9 connector at 2 ends	DB9 connector at 2 ends	DB9 connector at 2 ends	DB9 and 4-pin terminal block at each end
Transmission mode	Arynchronous, full-duplex, transparent transmission	Arynchronous, full-duplex, transparent transmission	Arynchronous, full-duplex, transparent transmission	Arynchronous, semi-duplex, transparent transmission
Transmission rate	300bps~38.4Kbps	300bps~38.4Kbps	300bps~115.2Kbps	300bps~28.8Kbps
Power supply	RS232 port power	RS232 port power	External power supply of DC5V	RS232 port power

Model	CSE485-Y	CSE485-YGS	CSE485-YG	CSE485-YGM
				

Specification Parameter				
Interface standard	RS-485/422 Standard	RS-485 Standard	RS-485/422 Standard	RS-485/422 Standard
Interface form	Terminal block at both ends	Terminal block at both ends	Terminal block at both ends	Terminal block at both ends
Transmission mode	Arynchronous, semi/full duplex, transparent transmission	Arynchronous, semi-duplex, transparent transmission	Arynchronous, semi/full duplex, transparent transmission	Arynchronous, semi/full duplex, transparent transmission
Transmission rate	300bps~115.2Kbps	300bps~38.4Kbps	300bps~115.2Kbps	300bps~115.2Kbp
Power supply	External power supply of DC5V	External power supply of DC5V	External power supply of DC5V or DC9~30V	External power supply of DC5V or DC9~30V
Isolation protection	No isolation	With isolation	Isolation for 2 ends signals	Ioslation for 3 ends signals and power

Model	CSE601	CSE601-G	CSE602	CSE605
				

Specification Parameter				
Interface standard	RS-232	RS-232	RS-485	100M Ethernet
Interface form	DB9 connector	DB9 connector	Terminal block	RJ 45
Defensive voltage	4KV/700us	10KV/8us	10KV/8us	—
Defensive current	1KA/20us	1KA/20us	1KA/20us	3KA/20us
Transmission rate	300bps~115.2Kbps	300bps~115.2Kbps	300bps~115.2Kbps	100M
Clamp voltage	<10.6V	<12V	<12V	≤35V
Response time	10ns	5ns	5ns	5ns
Insertion loss	<0.1dB	<0.2dB	<0.2dB	≤0.5dB

Network Management Software

System Introduction

Come-Star network management system is a comprehensive management software for industrial Ethernet switches.CSview adopts a unified user interface,which can conduct unified management and topology detection for all managed Industrial Ether-net switches produced by Come-Star

Come-Star realizes the following main functions:switch IP batch setting,network topology query,log system,real time alarm, switch setting, etc. And cross platform porting supports Linux system; Support the automatic detection function of topology map to improve the accuracy of real-time changes of topology map It supports the function of regularly detecting topology maps.

It supports the SNMPV3 protocol,and authentication mode supports SHA1,MD5and AES256 encryption protocols.The encryption mode supports AES,AES192,AES256 and DES encryption protocols.SNMP scanning also adds fast scanning and accurate scanning modes.Fast scanning has short scanning time and low accuracy.Accurate scanning:the overall scanning time is long and the accu-racy is high.

System Parameter



Product Function	CSViewPro
SNMP	Support V1/V2C/V3/TRUNK
General management interface	Supports version 3.0
LLDP topological graph	Support accurate topology display
Automatically detect topology	Support
License authorization	Support
Export topology	Support
Operating system	Support Windows/Linux (x86,arm)
Scanning device	Support
Modify IP	Support
Batch modify IP	Support
Generate topology map	Support
Refresh the topology	Support
SNMP scan	Support
SNMP + Ping scan	Support
LLDP protocol	Support
LLDP topology	Support
Customized topology	Support
User management	Support
Cross-routing	Support

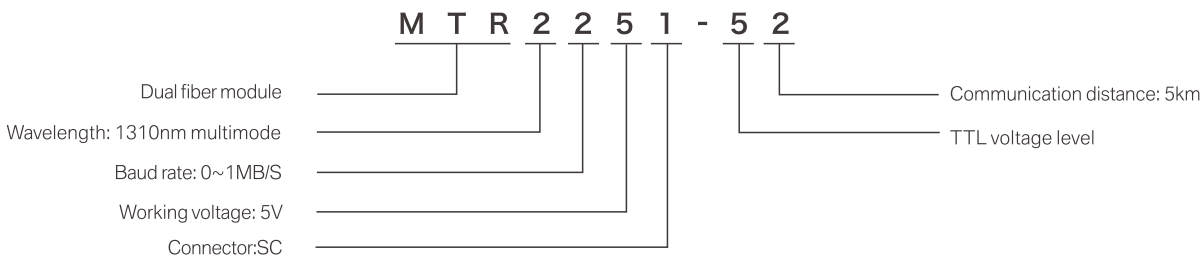
Accessories Selection

Accessories



Industrial-grade Optic Moudle

The optic module naming example



The module naming notes

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Device category	Transmit wavelength and mode	Baud rate	Working voltage	Connector	Power	Voltage level	Communication distance	Single transmit and single receive
TB:single fiber module TR:dual fiber module TD:DFB module TN:rate asymmetric single fiber module TRR:dual receiving module TRT:dual transmit module SFP:SFP dual fiber module SFPB:SFP single fiber module	1:850nm multimode /PINTIA 2:1310nm multimode /PINTIA 3:1310nm single mode LD/PINTIA 4:1550nm single mode LD/PINTIA	1:0~200Kb/s 2:0~1Mb/s 3:0~10 Mb/s 4:84 Mb/s 5:155 Mb/s 6:200 Mb/s 7:622 Mb/s 8:1.25Gb/s 9:2.5 Gb/s 0:10 Gb/s	3:3.3V 5:5V	1:SC 2:ST metal 3:FC 4:Pigtail type 5:LC 6:ST plastic	Omitted: ordinary type A:low power type	1:PECL 2:LVPECL 3:LVDS 4:LVTTTL 5:TTL	0:550m 1:2km 2:10km 3:20km 4:40km 5:60km-70km 6:80km-100km 7: Over 100km 8: Over 120km	Omitted:integrated transmit and receive T:single transmit R:single receive

Industrial grade gigabit SFP module list

Recommended model	Port description			
	Single/multi-mode	Connector	Wavelength	Transmission distance
MSFP1835-20	Multimode	LC	850nm	0.55km
MSFP1835-20	Single mode	LC	1310nm	10km
MSFP3835-23	Single mode	LC	1310nm	20km
MSFP3835-24	Single mode	LC	1310nm	40km
MSFP4835-25	Single mode	LC	1550nm	70km

Fiber Patch Cord

Fiber patch cord is the fiber cable with connector plugs both ends to realize jump connection of the fiber; One end is equipped with a plug, commonly known as tail fiber. With different types of connector plugs at both ends, which is called bridge wiring. It is divided into single mode, multimode and data fiber types. The plugs are FC, SC, ST, MU and LC, and the end faces are PC, UPC and APC.

Main features

- Low insertion loss;
- Large return loss;
- Good temperature stability;
- Good repeatability;
- Good interchangeability;
- Applied to fiber communication system, fiber access network, local area network, fiber data transmission, fiber CATV and fiber testing equipment.

Optical Cable

Main features

- Good mechanical and temperature characteristics;
- The sleeve has good water resistance and high strength, which provides key protection for the optical fiber;
- Specially designed compact optical cable structure;
- Good compression resistance and softness;
- Double sided chrome coated plastic coated steel strip (PSP) improves the moisture resistance of optical cable;
- Two parallel steel wires ensure the tensile strength of the optical cable;
- Polyethylene (PE) sheath has good ultraviolet radiation resistance, small diameter, light weight and easy to lay;
- Working temperature: - 40 ℃ ~ 70 ℃;
- Suitable for pipeline, overhead and direct burial.

Fiber Terminal Box

It is used for the termination and fixation of optical cables, the fusion of optical fibers and pigtails, and the storage and protection of surplus fibers. It is a device with connection function in optical fiber communication lines. According to the installation mode, it can be divided into wall mounted and rack mounted models.

Main features

- The material is high-quality steel plate, and the surface is sprayed with plastic. The appearance is beautiful and solid;
- Large disk design;
- 2/4 cable inlets optional; Multiple fiber output modes optional;
- Rubber fiber outlet protection;
- Working temperature: -25℃~70℃;
- Withstand voltage strength: no breakdown and flashover under 15kV DC for 1min;
- Bending radius of optical fiber in storage tray: ≥ 40mm.

Flange Plate

Main features

Optical fiber flange (also known as optical fiber adapter) is used for docking between plugs of optical fiber movable connectors, and is a link component in optical fiber connection, such as FC and FC, ST and ST, SC and SC. This is the engineering application. Widely used in optical fiber communication system, optical distribution frame (ODF), optical fiber data network, optical fiber CATV and other projects.