AOA TECHNOLOGY CO. , LIMITED

Actuating Optical Advances

AOA TECHNOLOGY CO. , LIMITED

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www.aoatech.com

Company Profile

Founded in 2008 at Shenzhen China, AOA TECHNOLOGY (Also registered: SHENZHEN LEAD TECHNOLOGY CO. , LTD) has been continuously dedicated to providing high-quality fiber optic products at a competitive price.

Our products range from Fiber Passive Components, Active Devices, Cable Manag ement, FTTH products and so on.

All of our products are used in various fields (and are wide ted in many countries); they include: Telecommunication; Urban Traffic/Railway/Highway; Sa fe City; Industrial Automation; Electric Power; New Energy; CCTV/Security/ Surveillance; Military Industry.

Certification



Our Clients

Rostelecom · CAT cyfence Securing your Business · movistar · Telefónica · TOT Telecom of Thailand · Claro · Grupo ICE · Viettel

Advantage

Strong R&D ability: AOA keep launched R&D to make the new products. Recently we are reseaching the 16/24 ports manageable switch.

Volume production capacity: media converter 1,000pcs per day; industrial switch 200pcs per day; SFP 5,000pcs per day

Reliable products: 100% of items are test before shipping

Prompt delivery: 2~3 days for regular items

Experience and Expertise: Our products are used in world wide Telecom companies, such as: Vietnam-Viettel, Thailand-TOT CAT, Russia-Rostelecom, Spain-Telefonica Movistar, LatinAmerica-Claro

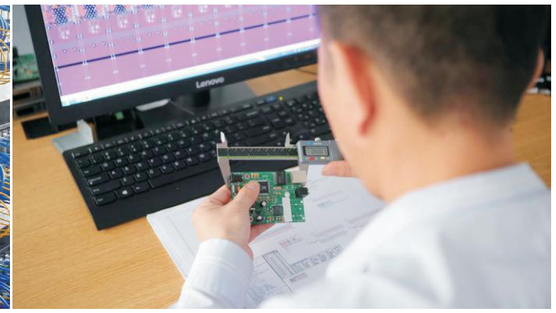
Company Culture

Corporate vision: To be the benchmark for the optical fiber industry

Corporate Mission: Leading the industry; Providing satisfiedcommunication products, solutions and services to worldwide customers To invest in both personal and corporate growth simultaneously

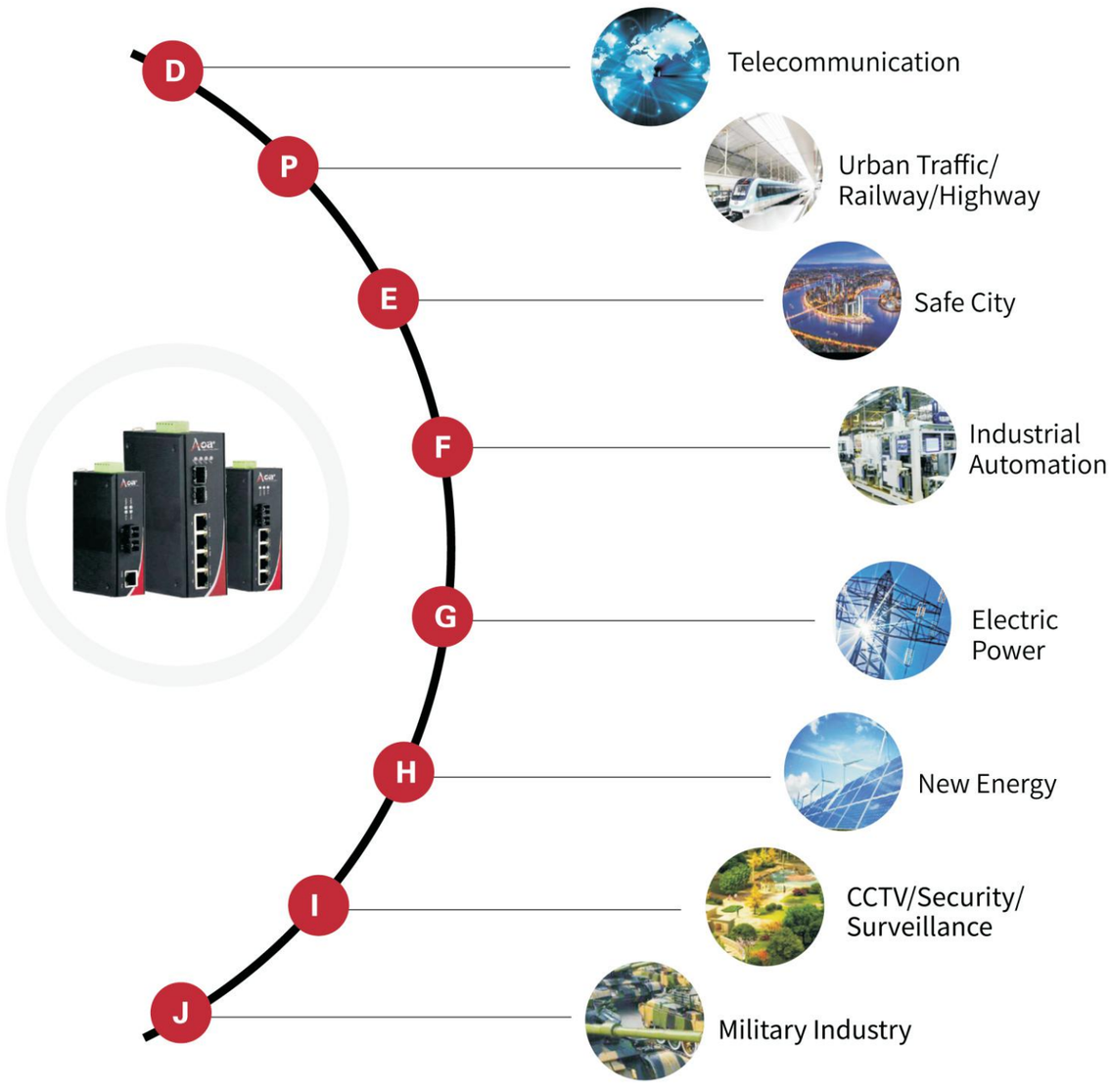
Core Values: Creating Customer Value. Insisting on R & D and Innovation. Building a Global Network. Adhering to Humanistic Management







Application scenarios



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Industrial 10/100M Media Converter



IMC1100
10/100Base-TX to 100Base-FX



IMC1100P
10/100Base-TX with POE to 100Base-FX

Overview

The IMC1100P Industrial POE Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

The IMC1100(P) features 1 x 100Base-FX fiber port and 1 x 10/100Base-TX twisted-pair port. The fiber optic port features SC connector and operating distance from 2km to 120km depending on different Model. The twisted-pair port has 1 x RJ-45 connector with a maximum operating distance of 100m.

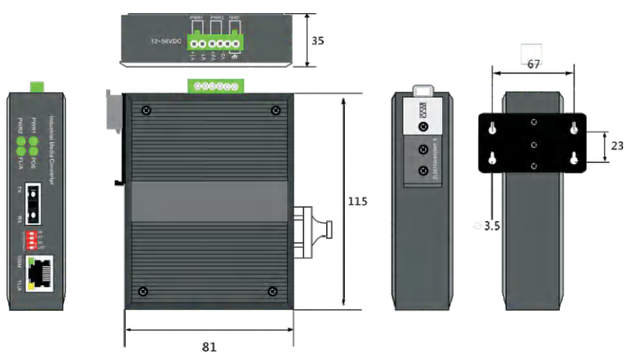
The IMC1100(P) Industrial Ethernet Switch is designed to stand up to extreme temperature, surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

The IMC1100(P) series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

Features

- UTP with POE to fiber media converter
- IEEE 802.3af/at complaint -IMC1100P
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward & Cut-thought optional
- Built-in LFP (Link-fault-pass-through) function
- Jumbo frame: 9kbytes
- Support wide operating temperature (-40 °C ~ +85 °C)
- Wide-range redundant power design 12-56Vd.c. (with POE 48-56Vd.c.)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall- Mounted Installation

Mechanical Dimensions



Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Specifications

10/100M Media Converter	IMC1100	IMC1100P
Performance		
Processing Type	Store and Forward,Cut-through	
Back Bandwidth	0.4Gbps	
MAC Address Size	2Kbit	
Packet Buffer Size	1Mbit	
Time Delay	<10us	
Frames	9Kbytes	
Copper Port		
Data Rate	10/100M	
Connector:	RJ45	
Distance	100m	
Fiber Port		
Data Rate	155M	
Connector	SC as default, FC/ST Optional	
Distance	MMF 2km,SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km	
DIP Switch		
Modified Cut-through Mode	Dip1-ON, Dip2-ON, Dip3-N/C, Dip4-OFF	
Converter Mode	Dip1-ON, Dip2-OFF, Dip3-N/C, Dip4-OFF	
Cut-through	Dip1-OFF, Dip2-ON, Dip3-N/C, Dip4-OFF	
Store and forward mode	Dip1-OFF, Dip2-OFF, Dip3-N/C, Dip4-OFF	
LFP Enable	Dip1-OFF, Dip2-OFF, Dip3-N/C, Dip4-ON	
Power Supply		
Power input	12-56 Vd.c. redundant power inputs	48-56 Vd.c. redundant power inputs
Environment		
Operating temperature	-40~95°C	
Storage Temperature	-40~85°C	
Relative Humidity	5-95% (no condensation)	
Physical		
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A: ON=Fiber Connected; Active=Data Transmitting TL/A: ON=Copper Connected; Active= Data Transmitting 100M: ON=100M Data Rate Transmitting POE: ON=Power Working; Off=No Power (IMC1100P)	
Installation	DIN-rail mounting, wall mounting(with optional kit)	
Dimension	115*81*35mm(device),220*175*73mm(packing)	
Weight	0.30kg(device); 0.43kg(device with packing)	
Standards and Certifications		
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree, IEEE802.3af/at POE(IMC1100P)	
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004	

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Industrial 10/100/1000M Media Converter



IMC3100
10/100/1000Base-T to 1000Base-X



IMC3100P
10/100/1000Base-T with POE to 1000Base-X

Overview

The IMC3100P Industrial POE Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

The IMC3100(P) features 1 x 1000Base-X fiber port and 1 x 10/100/1000Base-T twisted-pair port. The fiber optic port features SC connector and operating distance from 550 to 120km depending on different Model. The twisted-pair port has 1 x RJ-45 connector with a maximum operating distance of 100m.

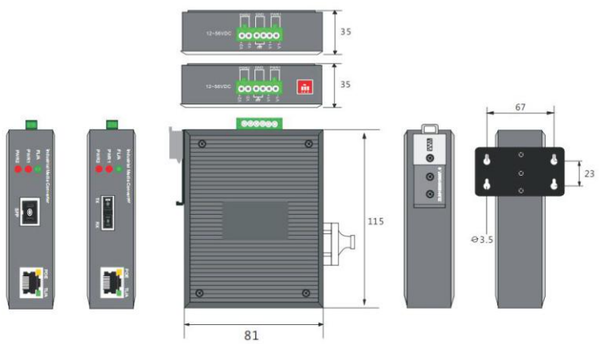
The IMC3100(P) Industrial Gigabit Ethernet Switch is designed to stand up to extreme temperature, surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

The IMC3100(P) series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

Features

- UTP to fiber media converter
- IEEE 802.3af/at complaint -IMC3100P
- RJ-45 port support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward switching architecture
- Support wide operating temperature (-40 °C ~ +85°C)
- Wide-range redundant power design 12-56Vd.c. (with POE 48-56Vd.c.)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall- Mounted Installation

Mechanical Dimensions



Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Specifications

10/100/1000M Media Converter	IMC3100	IMC3100P
Performance		
Processing Type	Store and Forward	
Back Bandwidth	14Gbps	
MAC Address Size	8K	
Packet Buffer Size	1Mbit	
Time Delay	<10us	
Frames	10Kbytes	
Copper Port		
Data Rate	10/100/1000M	
Connector:	RJ45	
Distance	100m	
Fiber Port		
Data Rate	1.25G	
Connector	SC as default, FC/ST Optional	
Distance	MMF 2km,SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km	
Power Supply		
Power input	12-56 Vd.c. redundant power inputs	48-56 Vd.c. redundant power inputs
Environment		
Operating temperature	-40~95°C	
Storage Temperature	-40~85°C	
Relative Humidity	5-95% (no condensation)	
Physical		
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A: ON=Fiber Connected; Active=Data Transmitting L/A: ON=Copper Connected; Active= Data Transmitting P/N ON=Power Working; Off=No Power (IMC3100P)	
Installation	DIN-rail mounting, wall mounting(with optional kit)	
Dimension	115*81*35mm(device); 220*175*73mm(packing)	
Weight	0.30kg(device); 0.43kg(device with packing)	
Standards and Certifications		
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3ab 1000BaseT, IEEE802.3z 1000Base-SX/LX, IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree, IEEE802.3af/at POE(IMC3100P)	
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004	

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Industrial 10/100M Ethernet Switch



IES1104(P)
4 x 10/100Base-TX (POE) to
1x 100Base-FX



IES1204(P)-SFP
4 x 10/100Base-TX (POE) to
2 x 100Base-FX

Overview

The IES1104P/1204P Industrial POE Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

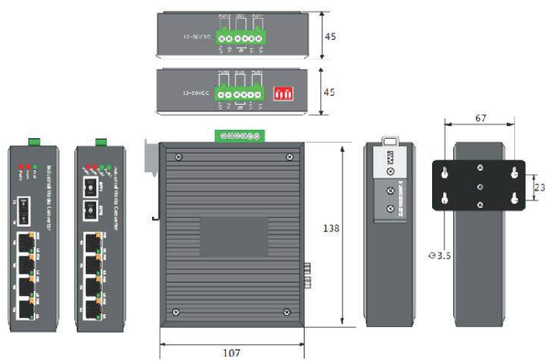
The IES1104(P)/1204(P) Industrial Ethernet Switch is designed to stand up to extreme temperature, surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

The IES1104(P)/1204(P) series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

Features

- UTP to fiber media converter
- IEEE 802.3af/at complaint - IES1104P/1204P
- RJ-45 port support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward switching architecture
- Support wide operating temperature (-40 °C~ +85 °C)
- Wide-range redundant power design 12-56Vd.c. (with POE 48-56Vd.c.)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall- Mounted Installation

Mechanical Dimensions



Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Specifications

10/100M Ethernet Switch	IES1104(P)	IES1204(P)-SFP
Performance		
Processing Type	Store and Forward	
Back Bandwidth	1.2Gbps	
MAC Address Size	1K	
Packet Buffer Size	512Kbit	
Time Delay	<10us	
Frames	2048bytes	
Copper Port		
Data Rate	10/100M	
Connector:	RJ45 x 4	
Distance	100m	
Fiber Port		
Data Rate	155M	
Connector	SC as default, FC/ST Optional	SFP slot x 2
Distance	MMF 2km,SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km	Up to SFP Transceivers
Power Supply		
Power input	12-56Vd.c. (with POE 48-56Vd.c.) redundant power inputs	
Environment		
Operating temperature	-40~95°C	
Storage Temperature	-40~85°C	
Relative Humidity	5-95% (no condensation)	
Physical		
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A,FL/A1,FL/A2: ON=Fiber Connected; Active=Data Transmitting L/A: ON=Copper Connected; Active= Data Transmitting POE: ON=Power Working; Off=No Power 100M:ON=100M; off=10M	
Installation	DIN-rail mounting, wall mounting(with optional kit)	
Dimension	138*107*45mm(device); 220*175*73mm(packing)	
Weight	0.48kg(device); 0.63kg(device with packing)	
Standards and Certifications		
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree, IEEE802.3af/at POE(IES1104P, IES1204P)	
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004	

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Industrial 10/100/1000M Ethernet Switch



IES3104(P)
4 x 10/100/1000Base-T (POE) to 1000Base-X



IES3204(P)-SFP
4 x 10/100/1000Base-T(POE) to 2 x 1000Base-X



IES3105(P)-SFP
4 x 10/100/1000Base-T (POE) to 1 x 10/100/1000Base-T + 1000Base-X

Overview

The IES3104P/3204P/3105P Industrial POE Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

The IES3104(P)/3204(P)/3105(P) Industrial Gigabit Ethernet Switch is designed to stand up to extreme temperature,surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

The IES3104(P)/3204(P)/3105(P) series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

Features

- Provide 4x 10/100/1000Base-T
- IEEE803.3af/at complaint -IES3104P/3204P/3105P
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 10K bytes
- Support VLAN (Controlled by DIP Switch)
- Support Force 10M-150 meters (Controlled by DIP Switch)
- Support 1+1 Fiber (Controlled by DIP Switch)
- Support wide operating temperature (-40 °C ~ +85 °C)
- Wide-range redundant power design 12-56Vd.c. (with POE 48-56Vd.c.)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall-Mounted Installation
- Low power consumption

Mechanical Dimensions



IES3104(P)/3204(P)/3105(P)

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Specifications

10/100/1000M Ethernet Switch	IES3104(P)	IES3204(P)-SFP	IES3105(P)-SFP
Performance			
Processing Type	Store and Forward		
Back Bandwidth	12Gbps		
MAC Address Size	1Kbits		
Packet Buffer Size	1Mbit		
Time Delay	<10us		
Frames	10Kbytes		
Copper Port			
Data Rate	10/100/1000M		
Connector	RJ45 x 4		
Distance	100m		
Fiber Port			
Data Rate	1.25G		
Connector	SC as default, FC/ST/SFP optional	SFP slot x 2	SFP slot x 1
Distance	MMF=550m/2km; SMF=20/40/80/100/120km Bi-Di=20/40/80/100/120km	Up to SFP Transceivers	
Power Supply			
Power input	12-56Vd.c. (with POE 48-56Vd.c.) redundant power inputs		
Environment			
Operating temperature	-40~85°C		
Storage Temperature	-40~95°C		
Relative Humidity	5-95% (no condensation)		
Physical			
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A,FL/A1,FL/A2: ON=Fiber Connected; Active=Data Transmitting L/A: ON=Copper Connected; Active= Data Transmitting 1000M: ON=1000M; OFF=10/100M POE: ON=POE Working; Off=No Power		
Installation	DIN-rail mounting, wall mounting(with optional kit)		
Dimension	138*107*45mm(device); 220*175*73mm(packing)		
Weight	0.48kg(device); 0.63kg(device with packing)		
Standards and Certifications			
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3ab 1000BaseT, IEEE802.3z 1000Base-SX/LX, IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree, IEEE802.3af/at POE(IES3104P, IES3204P, IES3105P)		
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004		

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Industrial 10/100/1000M Ethernet Switch



IES3108(P)
8 x 10/100/1000Base-T (POE) to 1000Base-X



IES3208(P)-SFP
8 x 10/100/1000Base-T (POE) to 2 x 1000Base-X



IES3109(P)-SFP
8 x 10/100/1000Base-T (POE) to 1 x 10/100/1000Base-T + 1000Base-X

Overview

The IES3108P/3208P/3109P Industrial POE Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

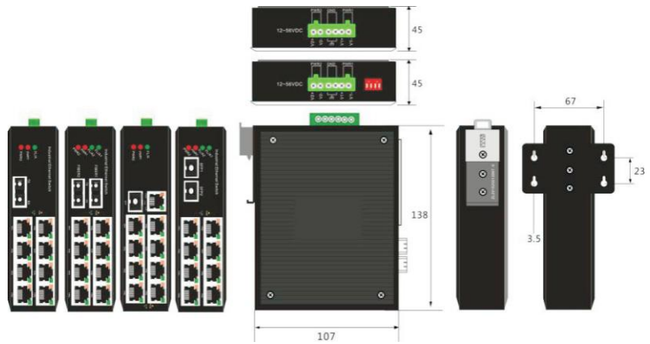
The IES3108(P)/3208(P)/3109(P) Industrial Ethernet Switch is designed to stand up to extreme temperature, surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

The IES3108(P)/3208(P)/3109(P) series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

Features

- Provide 8 x 10/100/1000Base-T
- IEEE803.3af/at complaint - IES3108P/3208P/3109P
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 10K bytes
- Support VLAN (Controlled by DIP Switch)
- Support Force 10M-150 meters (Controlled by DIP Switch)
- Support 1+1 Fiber (Controlled by DIP Switch)
- Support wide operating temperature (-40 °C ~ +85 °C)
- Wide-range redundant power design 12-56Vd.c. (with POE 48-56Vd.c.)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall-Mounted Installation
- Low power consumption

Mechanical Dimensions



IES3108(P)/3208(P)/3109(P)

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Specifications

10/100/1000M Ethernet Switch	IES3108(P)	IES3208(P)-SFP	IES3109(P)-SFP
Performance			
Processing Type	Store and Forward		
Back Bandwidth	22Gbps		
MAC Address Size	16Kbits		
Packet Buffer Size	2Mbit		
Time Delay	<10us		
Frames	10Kbytes		
Copper Port			
Data Rate	10/100/1000M		
Connector	RJ45 x 8		
Distance	100m		
Fiber Port			
Data Rate	1.25G		
Connector	SC as default, FC/ST/SFP optional	SFP slot x 2	SFP slot x 1
Distance	MMF=550m/2km; SMF=20/40/80/100/120km Bi-Di=20/40/80/100/120km	Up to SFP Transceivers	
Power Supply			
Power input	12-56Vd.c. (with POE 48-56Vd.c.) redundant power inputs		
Environment			
Operating temperature	-40~85°C		
Storage Temperature	-40~95°C		
Relative Humidity	5-95% (no condensation)		
Physical			
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A: ON=Fiber Connected; Active=Data Transmitting TL/A: ON=Copper Connected; Active= Data Transmitting 1000M: ON=1000M; OFF=10/100M POE: ON=POE Working; Off=No POE		
Installation	DIN-rail mounting, wall mounting(with optional kit)		
Dimension	138*107*45mm(device); 220*175*73mm(packing)		
Weight	Weight: 0.48kg(device); 0.63kg(device with packing)		
Standards and Certifications			
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3ab 1000BaseT, IEEE802.3z 1000Base-SX/LX, IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree, IEEE802.3af/at POE(IES3108P, IES3208P, IES3109P)		
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004		

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10/100M Media Converter



AOM-1100
10/100Base-TX
to 100Base-FX



AOM-1102
2 ports 10/100Base-TX
to 100Base-FX



AOM-1100D
10/100Base-TX to
100Base-FX with LFP

Overview

AOM-1100 Serial 10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 120km by fiber optic cable .

AOM-1102 Serial 10/100M Fiber Media Converter translates the signal from Two twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 120km by fiber optic cable .

AOM-1100D Serial 10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 120km by fiber optic cable, which supports LFP (Link Fault Pass-through) function & USB Powered.

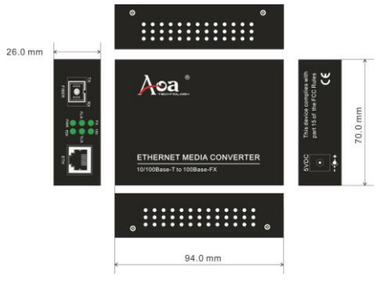
Features

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- 100Mbps cut-through transmission -AOM-1100D
- LFP (Link Fault Pass-through) Function -AOM-1100D
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

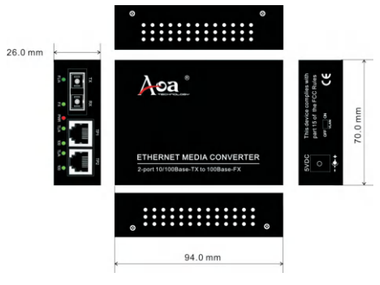
Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

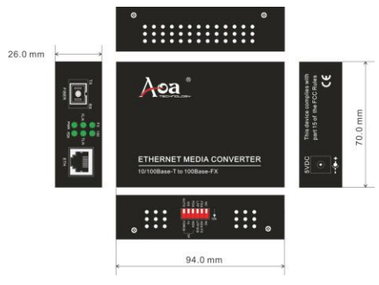
Mechanical Dimensions



AOM-1100



AOM-1102



AOM-1100D

Specifications

10/100M Media Converter	AOM-1100	AOM-1102	AOM-1100D
Performance			
Processing Type	Store and Forward		Store and Forward, Cut-through
Back Bandwidth	400Mbps		400Mbps
MAC Address Size	4Kbit		4Kbit
Packet Buffer Size	512Kbit		128Kbit
Time Delay	<10us		<10us
Frames	1536bytes		9K
Copper Port			
Data Rate	10/100M		
Connector:	RJ45		
Distance	100m		
Fiber Port			
Data Rate	155M		
Connector	SC as default, FC/ST Optional		
Distance	MMF 2km,SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km		
Power Supply			
Power input	DC5V 1A		
AC Power Supply	100V-AC240V to 5V1A, External / Internal Power Supply Optional		
Environment			
Operating temperature	-20~65°C		
Storage Temperature	-40~85°C		
Relative Humidity	5-95% (no condensation)		
Physical			
LED indicators	FX (Fiber link is in correct connection)_AOM-1102 FDX (FX full duplex)_AOM-1100/1100D FL/A (optical link/action) TL/A (twisted pairs link/action) 100 (100M transmission rate of twisted pairs) PWR (power supply)		
Installation	Desk-top, wall mounting, Chassis		
Dimension	94*70*26mm (External power supply)		
Weight	0.4kg (External power supply)		
Standards and Certifications			
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree		
Safety	N 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004		

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10/100/1000M Media Converter



AOM-3100
10/100/1000Base-T
to 1000Base-X



AOM-3102
2 ports 10/100Base-TX
to 100Base-FX



AOM-3100D
10/100/1000Base-T
to 1000Base-X with LFP

Overview

AOM-3100 Serial 10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-X fiber optic cable, extends data transmission distance from 100m via copper cables to 100km by fiber optic cable

AOM-3102 Serial 10/100/1000M Fiber Media Converter translates the signal from Two twist-pair 10/100/1000Base-T cable to 1000Base-X fiber optic cable, extends data transmission distance from 100m via copper cables to 120km by fiber optic cable

AOM-3100D Serial 10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-X fiber optic cable, extends data transmission distance from 100m via copper cables to 100km by fiber optic cable, which supports LFP (Link Fault Pass-through) function.

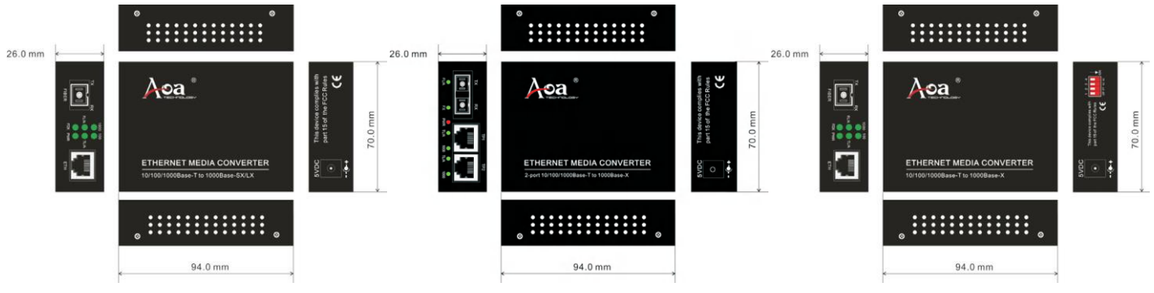
Features

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- 1000Mbps cut-through transmission -AOM-3100D
- LFP (Link Fault Pass-through) Function -AOM-3100D
- Support 9K Jumbo Frame
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Mechanical Dimensions



AOM-3100 AOM-3102 AOM-3100D

Specifications

10/100/1000M Media Converter	AOM-3100	AOM-3102	AOM-3100D
Performance			
Processing Type	Store and Forward		Store and Forward, Cut-through
Back Bandwidth	6Gbps		4Gbps
MAC Address Size	1Kb		16kb
Packet Buffer Size	1Mbit		1Mbit
Time Delay	<10us		<10us
Frames	9K		15K
Copper Port			
Data Rate	10/100/1000M		
Connector:	RJ45		
Distance	100m		
Fiber Port			
Data Rate	1000M		
Connector	SC as default, FC/ST/LC Optional		
Distance	MMF 2km,SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km		
Power Supply			
Power input	DC5V 2A		
AC Power Supply	100V-AC240V to 5V2A, External / Internal Power Supply Optional		
Environment			
Operating temperature	-20~65°C		
Storage Temperature	-40~85°C		
Relative Humidity	5-95% (no condensation)		
Physical			
LED indicators	FX (Fiber link is in correct connection)_AOM-3102 FDX (FX full duplex)_AOM-3100/3100D FL/A (optical link/action) TL/A (twisted pairs link/action) 100 (100M transmission rate of twisted pairs)_AOM-3100/3100D 1000 (1000M transmission rate of twisted pairs) PWR (power supply)		
Installation	Desk-top, wall mounting, Chassis		
Dimension	94*70*26mm (External power supply)		
Weight	0.4kg (External power supply)		
Standards and Certifications			
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree		
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004		

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155M/1.25G Media Converter



AOM-2200
155M/1.25G SM-MM SFP Fiber Converter

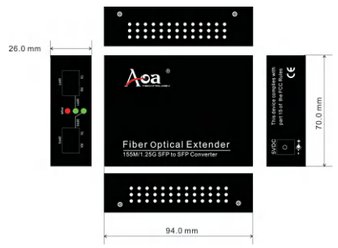
Features

- Supporting 155M and 1.25G SFP Transceivers, Hot-plug
- Supporting full-duplex and half-duplex and its auto-sensed
- Supporting direct and transparent transmission of packets at different lengths
- Supporting the transmission of extra-long VLAN packets
- Supporting Quality of Service (QoS) and ensuring the transmission of VoIP packets;
- Supporting STP to form a redundant network;
- Low power consumption, low heat, reliable and stable performance, and lo ng lifetime;
- Options in single mode in dual fiber, multi-mode in dual fiber, and single mode in single fiber

Overview

AOM-2200-EA series SFP to SFP converters support 155M and 1.25G SFP Transceivers. It can not only fulfill the conversion of single mode or multi mode at 1310nm wavelength, but also that of 850nm/1310nm and 1550nm wavelengths, which functions as a relay and then makes multi-mode or single mode fibers transmit farther. It supports transmission in multi-mode dual fiber, single mode dual fiber and single mode single fiber.

Mechanical Dimensions



Specifications

10/100/1000M Media Converter	AOM-2200
Performance	
Port	SFP Slot
Power Supply	
Power input	DC5V 1A
AC Power Supply	PWR (power supply); P1 (SFP1); P2 (SFP2)
Power consumption	3.5W
Environment	
Operating temperature	-10~65°C
Storage Temperature	-40~70°C
Relative Humidity	5-90% (no condensation)
Physical	
Installation	Desk-top, wall mounting, Chassis
Dimension	94*70*26mm (External power supply)
Weight	0.4kg (External power supply)
Standards and Certifications	
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree
Safety	EN 60950-1
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 (EN 61000-4-2: 2009, EN 61000-4-3: 2006+A2: 2010, EN 61000-4-4: 2012, EN 61000-4-5: 2014, EN 61000-4-6: 2014, EN 61000-4-11: 2004)

Media converter Chassis



AOR-14
14 slot media converter Chassis

Features

- The configuration of active/standby power supply ensures uninterruptible operation of the system.
- Provide two power supplies AC 220V/DC-48V, enabling the system can work under many operating environments;
- Supporting simultaneous operation of several stand alone type media converters at different rates, which greatly improves system adaptability;
- Each card supports hot swapping;
- Applicatory module types: AOM-1100, AOM-3100, AOM-1100D, AOM-3100D, AOM-1102, AOM-3102, AOM-2200 series (external power supply, stand alone type).

Overview

AOR-14 series is cost-effective media converter rack (2U) widely used in the equipment room. Different types of stand alone type media converter developed by our company can be inserted into this rack, which total slots up to 14. It is furnished with two power supplies: main power supply and spare one, and supports its automatic switch-over.

Specifications

Media converter Chassis	AOR-14
Performance	
Number of slots	14
Structure	2U rack
Power Supply	
Power input	AC Voltage: AC 100-265V; frequency: 50/60 Hz DC voltage: DC -36-72V
Power output	DC5V 12A
Power configuration	Single power supply, or Dual power supply for warm backup mode
Environment	
Operating temperature	-10~55°C
Storage Temperature	-40~70°C
Relative Humidity	5-90% (no condensation)
Physical	
Dimension	427*230*90mm (External power supply)
Weight	1.5kg (External power supply)
Standards and Certifications	
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004

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POE Ethernet Switch



AES3104(P)
4x10/100/1000Base-T (POE)
to 1000Base-X



AES3204(P)-SFP
4x10/100/1000Base-T (POE)
to 2x1000Base-X



AES3105(P)-SFP
4x 10/100/1000Base-T (POE) to
1 x 10/100/1000Base-T + 1000Base-X

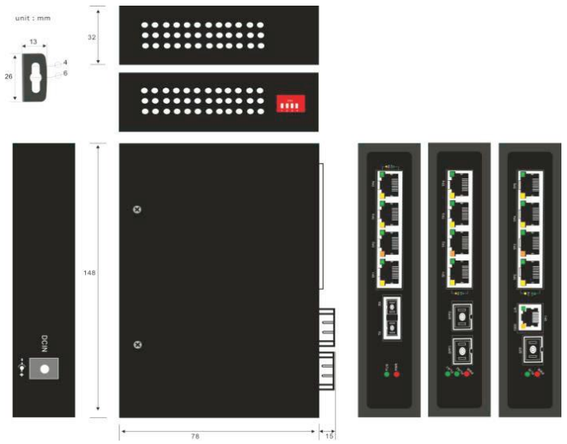
Overview

The AES3104P/3204P/3105P Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

Features

- Provide 4/5x 10/100/1000Base-T
- IEEE803.3af/at complaint -AES3104P/3204P/3105P
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 10K bytes
- Wide-range redundant power design (48-56Vd.c.)
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- Desk-top Installation
- Low power consumption

Mechanical Dimensions



AES3104(P)/3204(P)/3105(P)

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Specifications

10/100/1000M Ethernet Switch	IES3104(P)	IES3204(P)-SFP	IES3105(P)-SFP
Performance			
Processing Type	Store and Forward		
Back Bandwidth	12Gbps		
MAC Address Size	1Kbits		
Packet Buffer Size	1Mbit		
Time Delay	<10us		
Frames	10Kbytes		
Copper Port			
Data Rate	10/100/1000M		
Connector	RJ45 x 4		
Distance	100m		
Fiber Port			
Data Rate	1.25G		
Connector	RJ45 x 4	SFP slot x 2	SFP slot x 1
Distance	MMF=550m/2km; SMF=20/40/80/100/120km Bi-Di=20/40/80/100/120km	Up to SFP Transceivers	
Power Supply			
Power input	12-56Vd.c. (with POE 48-56Vd.c.)		
PoE Budget	15.4Wx4=62W(PoE) 30Wx4=120W(PoE+)		
Protection	Overload Current; Reverse Polarity		
Environment			
Operating temperature	-20~65°C		
Storage Temperature	-40~85°C		
Relative Humidity	5-95% (no condensation)		
Physical			
LED indicators	PWR: ON=Power Connected FL /A: ON=Fiber 1 Connected; Active=Data Transmitting FL /A1: ON=Fiber 1 Connected; Active=Data Transmitting FL /A2: ON=Fiber 2 Connected; Active=Data Transmitting L/A: ON=Copper Connected; Active= Data Transmitting P/D: ON=POE Working; /1000M: ON=1000M		
Installation	Desk-top		
Dimension	148*78*32mm (External power supply)		
Weight	0.64kg (External power supply)		
Standards and Certifications			
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3ab 1000BaseT, IEEE802.3z 1000Base-SX/LX,IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree, IEEE802.3af/at POE(AES3104P, AES3204P, AES3105P)		
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004		

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POE Ethernet Switch



AES3108(P)
8x10/100/1000Base-T (POE) to 1x1000Base-X



AES3208(P)-SFP
8x10/100/1000Base-T (POE) to 2x1000Base-X



AES3109(P)-SFP
8x10/100/1000Base-T(POE) to 1x1000Base-T+1000Base-X

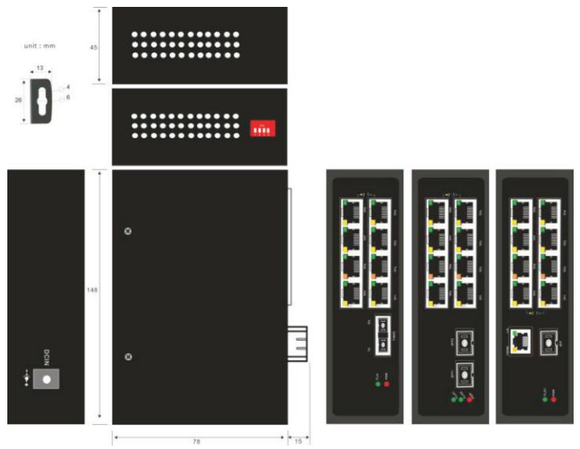
Overview

The AES3108P/ AES3208P-SFP/ AES3109P-SFP POE Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

Features

- Provide 8 x 10/100/1000Base-T
- 1/2 x 1000Base-X SFP Slot for Daisy-Chain
- IEEE803.3af/at complaint
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 10K bytes
- Wide-range redundant power design 12-56Vd.c. (with POE 48-56Vd.c.)
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- Desk-top Installation
- Low power consumption

Mechanical Dimensions



AES3108(P)/3208(P)/3109(P)

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Specifications

POE Fiber Switch	AES3108(P)	AES3208(P)-SFP	AES3109(P)-SFP
Performance			
Processing Type	Store and Forward		
Back Bandwidth	22Gbps		
MAC Address Size	16Kbit		
Packet Buffer Size	2Mbit		
Time Delay	<10us		
Frames	10Kbytes		
Copper Port			
Data Rate	10/100/1000M		
Connector	RJ45 x 8		
Distance	100m		
Fiber Port			
Data Rate	1.25G		
Connector	SC as default, FC/ST Optional	SFP slot x 2	SFP slot x 1
Distance	MMF=550m/2km; SMF=20/40/80/100/120km Bi-Di=20/40/80/100/120km	Up to SFP Transceivers	
Power Supply			
Power input	12-56Vd.c. (with POE 48-56Vd.c.)		
PoE Budget	15.4Wx8=123W(PoE) 30Wx8=240W(PoE+)		
Protection	Overload Current; Reverse Polarity		
Environment			
Operating temperature	-20~65°C		
Storage Temperature	-40~85°C		
Relative Humidity	5-95% (no condensation)		
Physical			
LED indicators	PWR: ON=Power Connected FL /A: ON=Fiber 1 Connected; Active=Data Transmitting FL /A1: ON=Fiber 1 Connected; Active=Data Transmitting FL /A2: ON=Fiber 2 Connected; Active=Data Transmitting L/A: ON=Copper Connected; Active= Data Transmitting P/D: ON=POE Working; /1000M: ON=1000M		
Installation	Desk-top		
Dimension	148*78*45mm(External power supply)		
Weight	0.74kg (External power supply)		
Standards and Certifications			
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3ab 1000BaseT, IEEE802.3z 1000Base-SX/LX, IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree, IEEE802.3af/at POE(AES3108P, AES3208P, AES3109P)		
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004		

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Fiber Switch



AFS3010
8x1000Base-X (SFP Slot) +
2x10/100/1000Base-T



AFS3028
24x1000Base-X (SFP Slot) +
4x10/100/1000Base-T(Combo)

Overview

The AFS3010/3028 Unmanaged SFP Fiber Ethernet Switch is a high performance Layer 2 Gigabit Ethernet switch for service providers.
The AFS3010 switch provides an uplink port 2*1000Base-X SFP slot and 8*1000BaseX SFP slot on the downstream port.
The AFS3028 provides an uplink port 4*COMBO (4x10/100/1000Base-T or 4*1000Base-X SFP slot) and 24*1000BaseX SFP slot on the downstream port.
The AFS3010/3028 switch is designed for emerging Ethernet-based FTTX applications. The switch is feature-rich and widely used. It is especially suitable for access networks and small-to-medium-sized private networks. The appearance is 19 inches and only 1U. With a high standard rack, the switching chip adopts multiple newest PHY integration combinations from the United States, and has the highest Gigabit port density, providing users with the best performance/price ratio.
The AFS3010/3028 series switches mainly include FTTx, fiber-optic LAN, industrial Ethernet, Ethernet-based high-reliability industrial distributed control system (DCS) and optical fiber digital video surveillance systems. Support universal hot-swappable SFP optical modules. It can be connected to fiber switches, optical transceivers, and various types of terminators that contain fiber interfaces. It supports super-high-definition video streaming capabilities, streamline network structures, and can provide up to 20Gbps of switching capacity. It can meet the different requirements of large-scale network convergence or small and medium-sized network cores. All ports support line-speed forwarding and MDI/MDIX auto-flip function, which enables plug-and-play operation without management.

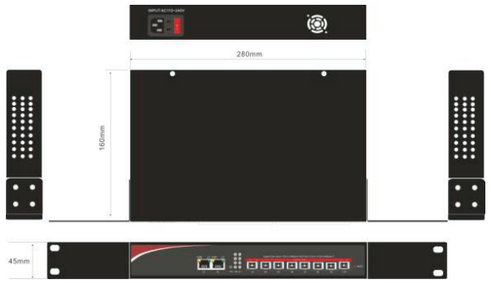
Features

- 8x1000Base-X SFP slots -AFS3010
- 2-Port 10/100/1000Base-T Gigabit Ethernet RJ-45 -AFS3010
- Uplink port 4*COMBO (4x10/100/1000Base-T or 4*1000Base-X SFP slot), Downlink port 24*1000BaseX SFP slot -AFS3028
- Compatible with single-mode/multi-mode, single-fiber/double-fiber SFP optical modules, or electrical modules (hot swappable)
- Supports multiple modes of SFP optical modules or modular plugs
- Standard 1U rack design, built-in dual cooling fans, stable operation
- Low power consumption 15W/24W, low heat generation, good stability
- RJ45 supports automatic MDI / MDI-X function
- Auto-negotiate speed, half/full duplex
- Supports flow control to prevent broadcast storms
- Store and Forward Mode
- Jumbo Frame Support 10kbytes
- AC90-264V wide range power input

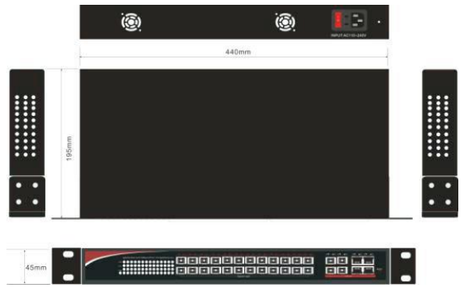
Application

- Network Communication , FTTH / FTTB / FTTx , ISP Backhaul Networking

Mechanical Dimensions



AFS3010



AFS3028

Specifications

Fiber Switch	AFS3010	AFS3028
Performance		
Processing Type	Store and Forward	
Back Bandwidth	20Gbps	56Gbps
MAC Address Size	8Kbit	16Kbit
Packet Buffer Size	2Mbit	6Mbit
Time Delay	<<5us	
Frames	10Kbytes	
Copper Port		
Data Rate	10/100/1000M	
Connector:	RJ45 X2	RJ45 X 4
Distance	100m	
Fiber Port		
Data Rate	1.25G	
Connector	8xSFP slot	24*1000Base-X(SFP)
Distance	Up to SFP Transceivers	
Power Supply		
Power input	AC: 110-240V 50/60Hz	
Environment		
Operating temperature	-10~65°C	
Storage Temperature	-40~85°C	
Relative Humidity	5-95% (no condensation)	
Physical		
LED indicators	G3~G10(optical link/action) LA (twisted pairs link/action) 1000 (1000M transmission rate of twisted pairs) PWR (power supply)	PWR (Red light); G1~G24(Optical port indicator) G25~G28(Combo port indicator)
Installation	Desk-top	
Dimension	280*160*42mm (device)	440*195*45mm
Weight	1.76kg (Excluded SFP modules)	2.5kg (Excluded SFP modules)
Standards and Certifications		
Standards	IEEE802.3 10BaseT, IEEE802.3u 100BaseT(X), IEEE802.3ab 1000BaseT, IEEE802.3z 1000Base-SX/LX, IEEE802.3x Flow control and back pressure, IEEE802.1d Spanning Tree	
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	
EMC	EN 55032: 2015 EN 61000-3-2: 2014, EN 61000-3-3: 2013 EN 55035: 2017 EN 61000-4-2: 2009; EN 61000-4-3: 2006+A2: 2010; EN 61000-4-4: 2012; EN 61000-4-5: 2014; EN 61000-4-6: 2014; EN 61000-4-8:2010; EN 61000-4-11: 2004	

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HD Video to fiber converters



HDV-01
1 Channel AHD/TVI/CVI to Fiber Converter



HDV-04
4 Channel AHD/TVI/CVI to Fiber Converter



HDV-08
8 Channel AHD/TVI/CVI to Fiber Converter

Overview

HD Video to fiber converters adopt the advanced uncompressed HD composite video and high velocity digital optical transmission technologies which convert the HD video composite signals to optical signals to achieve long distance(as far as 80Km) transmission through fibers.

Features

- Non-compression coding technology
- Automatically identify formats of input videos.
- Support transmission of 4 channel HD video signal and controlling data simultaneously though coaxial cable
- DC 5V power supply
- Support 720p/25,720p/30,720p/50,720p/60,1080p/25,1080p/30 videos etc.
- Through LED indicators to inform its functional mode
- Industrial wide range of operational temperature
- Plug and play, simple installation.

Application

- Intelligence Traffic Monitor system (ITS)
- Metro/High-speed way monitor system
- Electric power/ hydraulic Safety Monitor system
- Industrial mining enterprises Security System
- Long-distance multimedia teaching/ Campus Security
- CATV long-distance transmission
- Building Automatic Security System

Specifications

HD Video converter	HDV-01	HDV-04	HDV-08
HD Video			
Interface	BNC		
Input level	>500mVp-p		
Output level	1Vp-p		
Input/Output Impedance	75 Ω		
Bandwidth	30MHz(720P); 60MHz(1080P)		
Digit bit width	8bit		
Data			
Interface	Standard industrial terminals		
Interface Signals	RS485		
Baud Rate	1200~9600bit/s		
Bit Error Rate	<10-9		
Optical			
Interface	FC (default) ,SC,ST (optional)		
Fiber Type	Single mode, single fiber (default)		
Distance	0km~80km		
Wavelength	1310nm/1550nm		
General			
Indicators	LOS,PWR,VIDEO		
Mean time between failures(MTBF)	>100 000 hours		
Power supply	DC5V/1A	DC5V/2A	DC5V/2A(8V-720P) DC5V/3A(8V-1080P 1U Rack)
Operating Temperature	-20 C~+70 C		
Humidity	0%~95% (non-condensing)		
Dimension	720P Device: 10.4*10.4*2.8mm,0.25kg; Packing: 25*14*7.5mm,0.75kg; 1080P Device: 10.4*10.4*2.8mm,0.25kg; Packing: 25*14*7.5mm,0.75kg	720P Device: 16.7*11.3*2.8mm,0.45kg; Packing: 34.5*21*7.5mm,1.1kg; 1080P Device: 16.7*11.3*2.8mm,0.45kg; Packing: 34.5*21*7.5mm,1.1kg	720P Device: 16.7*11.3*4.4mm,0.55kg; Packing: 34.5*21*9mm,1.75kg; 1080P Device: 16.7*11.3*4.4mm,0.65kg; 1080P Packing: 34.5*21*9mm,1.95kg

SDI Video to fiber converters



SDI-100/111
1 Channel 3G SDI to Fiber Converter

Features

- All-digital, uncompressed HD optical fiber transmission
- FC interface, transmission distance
- Support hot swap
- Rack type optional (can be used together with rack type and box type)
- With clock recovery, clock shaping
- Pass Pathological (extreme harsh environment) test
- Input adaptive, output resolution up to 1080@60HZ
- Transmission distance Single-mode fiber 10KM or more, up to 80KM
- Unidirectional audio and video / reverse data / Ethernet optional
- Support special function customization

Overview

HD-SDI/3G-SDI video digital optical converter adopts international advanced all-digital gigabit optical fiber transmission technology, the HD-SDI/3G-SDI video signal can be transmitted through 1 fiber with non- Distortion, high-quality, long-distance transmission.This series of video to fiber converter has Stable performance, clear picture quality., and high Stability with LED Status Indication on the body of device. The working status of devices can be visually observed. At the same time, the switch value, voltage, working status and other reverse useful signal information can be controlled by RS485 or RS232.This makes our devices more flexible when different customers' request comes.

Application

- All-digital, uncompressed HD optical fiber transmission
- FC interface, transmission distance
- Support hot swap
- Rack type optional (can be used together with rack type and box type)
- With clock recovery, clock shaping
- Pass Pathological (extreme harsh environment) test
- Input adaptive, output resolution up to 1080@60HZ
- Transmission distance Single-mode fiber 10KM or more, up to 80KM
- Unidirectional audio and video / reverse data / Ethernet optional
- Support special function customization

Specifications

SDI Video converter	SDI-01
SDI input/output	
Video interface	BNC
Video impedance	75Ω
Video input/out put voltage	Typical:1Vpp,Min 0.5Vpp, Max 1.5Vpp
Video Bits Rate	Max 2.97Gb/s
Video SDI standard	270Mbps(SD-SDI),1.485Gbps/M(HD-SDI),SMPTE425M3Gb/s Mapping(3G-SDI), SMPTE424M 3Gb/s serial interface(3G-SDI)
Data	
Input/Output Connector	Industrial standard screw terminal
Interface Signal	RS485/RS422/RS232/Manchester
Baud Rate	0-400Kbps
BER	< 10 -9
Operation Mode	Full duplex / half duplex
Audio	
Input/Output Connector	Industrial standard screw terminal
Input Impedance	10K Ohm
Output Impedance	50 Ohm
Max input/output voltage	3.0Vp-p
Frequency Response	10 Hz～44.1kHz @±3dB
SNR	> 70dB
Optical	
Interface	LC (SFP module)
Fiber Type	Single mode, single fiber (default)
Distance	20km
General	
Input power	AC 220V
Power consumption	8W
Operating Temperature	-10°C ~ 55°C
Humidity	0%~95% (non-condensing)
Physical Characteristics	Single Device Dimension: 10.4*10.4*2.8cm; Weight: 0.25kg Pairs Packing Dimension: 25*14*7.5cm; Weight: 0.75kg(transmitter+receiver in packing)

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HDMI Video to fiber converters



HDM-0122D
1-ch HDMI+1-ch BIDI Audio+1-ch BIDI RS232

Features

- Full digital, Uncompressed HD optical fiber transmission
- Exact match HDMI1.3b standard，HDCP1.1 protocal，support CEC
- With Independent analog audio
- Automatic identification and configure display mode
- Support resolution up to 1080P60 and below
- Single mode,multi mode optical transmission
- ESD protection circuit inside，to ensure the ESD damage.
- Easily to installation, plug and play, no need to set up

Overview

HDMI Optical transmitter and receiver adopts the uncompressed digital HD video and high-speed digital optical fiber transmission technology advanced,It can transfer signal source(computer signal source,VGA signal source high digital DVD/DVR and various resolution HDMI signal…) to long distance terminal easily.

Application

- Intelligence Traffic Monitor system (ITS)
- Metro/High-speed way monitor system
- Electric power/ hydraulic Safety Monitor system
- Industrial mining enterprises Security System
- Long-distance multimedia teaching/ Campus Security
- CATV long-distance transmission
- Building Automatic Security System

Specifications

HDMI Video converter	HDM-0122D
HDMI Input/Output	
Video format	1920*1080P60
	1920*1080P50
	1920*1080P30
	1920*1080P25
	1920*1080P24
	1920*1080I60
	1920*1080I50
	1280*720P60
	1280*720P50
Audio	
Audio of input and output	3.5MM audio
Input and output audio format	44.1K,48K,96K,176K,192K
Input voltage	DC 5V2A, inside+ outside-
Optical	
Interface	LC (SFP module)
Fiber Type	Single mode, single fiber (default)
Distance	20km
General	
Power consumption	HDMI Receiver 2.5W
	HDMI Transmitter 2.5W
Operating Temperature	-10°C ~ 55°C
Humidity	0%~95% (non-condensing)
Physical Characteristics	Single Device Dimension: 16.7*11.3*2.8cm(device); Single Device Weight: 0.35kg(device) Pairs Packing Dimension: 34.5*21*7.5cm(packing) Pairs Packing Weight: 1.1kg(transmitter+receiver in packing)

SFP Tranceivers

> SFP



SFP-S1213L-20
1.25Gbps SM SFP Optical Transceiver, 20km Reach

> SFP BIDI



SFP-B1235L-20
1.25Gbps SFP Bi-Di Transceiver, 20km Reach TX1310 / RX1550nm

> SFP CWDM



SFP-C12XXL-80
1.25Gbps CWDM SFP Optical Transceiver, 80km Reach

Features

- Up to 1.25Gbps data links
- Compliant with SFP MSA and SFF-8472 with single/Duplex LC receptacle
- Digital Diagnostic Monitoring: Internal Calibration or External Calibration
- Compatible with SONET
- Compatible with RoHS
- +3.3V single power supply
- Operating case temperature:
- Standard :0 to +70°C
- Industrial : -40 to +85°C

Application

- SDH and SONET system
- Fiber Channel
- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems

Specifications

Model No.	Package	Data Rate	Wavelength	Reach	TX	RX	Connector	TX Power	RX Sensitivity
>SFP									
SFP-M1285L-05	SFP	1.25G	850nm	550m	VCSEL	PIN	LC	-9.5~-3dBm	-18dBm
SFP-S1213L-20			1310nm	20km	FP			-9~-3dBm	-19dBm
SFP-S1215L-80			1550nm	80km	DFB			0~5dBm	-26dBm
SFP-S1215L-120			1550nm	120km		APD		0~5dBm	-32dBm
>SFP BIDI									
SFP-S1234L-20	SFP	1.25G	1310/1490nm	20km	FP	PIN	LC	-9~-3dBm	-23dBm
SFP--1243L-20			1490/1310nm	20km	DFB			-9~-3dBm	-23dBm
SFP-S1235L-20			1310/1550nm	20km	FP			-9~-3dBm	-23dBm
SFP-S1253L-20			1550/1310nm	20km	DFB			-9~-3dBm	-23dBm
SFP-S1245L-80			1490/1550nm	80km				0~5dBm	-26dBm
SFP-S1254L-80			1550/1490nm	80km				0~5dBm	-26dBm
>SFP CWDM									
SFP-C12xxL-20	SFP	1.25G	1270-1610nm	20km	DFB CWDM	PIN	LC	-9~-3dBm	-20dBm
SFP-C12xxL-80			1270-1610nm	80km				0~5dBm	-26dBm
SFP-C12xxL-100			1270-1610nm	100km				0~5dBm	-28dBm
>SFP DWDM									
SFP-D12xxL-80	SFP	1.25G	DWDM	80km	DFB DWDM	PIN	LC	0~4dBm	-26dBm
SFP-D12xxL-100				120km		APD		0~5dBm	-30dBm

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SFP+ Transceiver

> SFP+



SFP-10G-SR
10Gbps MM SFP+Transceiver, 850nm, 300M Reach



SFP-10G-LR
10Gbps SM SFP+ Transceiver, 1310nm, 20Km Reach

> SFP+ BIDI



SFP-B1023L-20
10Gbps SFP+ Bi-Di Transceiver, 20Km Reach TX1270 / RX1330nm



SFP-B1032L-20
10Gbps SFP+ Bi-Di Transceiver, 20Km Reach TX1330 / RX1270nm

Features

- Supports up to 10.7Gbps bit rates
- Hot-pluggable SFP+ footprint
- Compliant with SFP+ MSA and SFF-8472 with duplex LC receptacle
- Compatible with RoHS
- Single +3.3V power supply
- Real Time Digital Diagnostic Monitoring
- Operating case temperature:
- Standard: 0 to +70°C
- Industrial: -40 to +85°C

Application

- 10Gbps Optical systems
- 10GBASE-LR at 10.3125Gbps
- 10GBASE-LW at 9.953Gbps
- LTE systems
- Other Optical links

Specifications

ModelNo.	Package	Data Rate	Wavelength	Reach	TX	RX	Connector	TX Power	RX Sensitivity
> SFP+									
SFP-10G-SR	SFP+	10G	850nm	300m	VCSEL	PIN	LC	-6~-1dBm	-11dBm
SFP-10G-LR			1310nm	10km	DFB			-8.2~0.5dBm	-14.4dBm
SFP-10G-ER			1550nm	40km	EML			-1~3dBm	-16dBm
SFP-10G-ZR			1550nm	80km		APD		-1~4dBm	-23dBm
> SFP+BIDI									
SFP-B1023L-20	SFP+	10G	1270/1330nm	20km	DFB	PIN	LC	-3~2dBm	-15dBm
SFP-B1032L-20			1330/1270nm	20km				-3~2dBm	-15dBm
SFP-B1023L-60			1270/1330nm	60km		APD		0~5dBm	-20dBm
SFP-B1032L-60			1330/1270nm	60km				0~5dBm	-20dBm
> SFP+CWDM									
SFP-C10XXL-20	SFP+	10G	1270-1330nm	10km	DFB CWDM	PIN	LC	-6~-0.5dBm	-14.4dBm
SFP-C10XXL-40			1350-1390nm	40km				0~5dBm	-15dBm
SFP-C10XXL-80			1470-1610nm	40km	EML CWDM			-1~3dBm	-16dBm
SFP-C10XXL-100			1470-1610nm	80km		APD		-1~4dBm	-23dBm
> SFP+DWDM									
SFP-D10XXL-20	SFP+	10G	DWDM	20km	DFB CWDM	PIN	LC	-6~0.5dBm	-14.4dBm

XFP Transceiver

> XFP



XFP-10G-SR
10Gbps MM XFP Transceiver, 850nm, 300M Reach



XFP-10G-LR
10Gbps SM XFP Transceiver, 1310nm, 10KM Reach

> XFP CWDM



XFP-C10xx-40
10Gbps CWDM XFP Transceiver, 40KM Reach

> XFP DWDM



XFP-D10xx-40
10Gbps DWDM XFP Transceiver, 40KM Reach

Features

- Supports 8.0Gb/s to 11.1Gb/s bit rates
- Hot-pluggable XFP footprint, Built-in digital diagnose
- XFP MSA package with duplex LC connector
- No reference clock required
- Single +3.3V power supply
- Power dissipation <1.5W/3.5W
- Compatible with RoHS
- Temperature range 0 to +70°C

Application

- SONET OC-192&SDH STM-64 at 9.953Gbps
- 10GBASE-SR/SW 10G Ethernet
- 1200-MX-SN-I 10Gigabit Fiber Channel
- 10GE over G.709 at 11.09Gbps
- OC192 over FEC at 10.709Gbps
- Other optical links, up to 11.3Gbps

Specifications

Model No.	Package	Data Rate	Wavelength	Reach	TX	RX	Connector	TX Power	RX Sensitivity
>XFP									
XFP-10G-SR	XFP	10G	850nm	300m	VCSEL	PIN	LC	-6~-1dBm	-10dBm
XFP-10G-LR			1310nm	10km	DFB			-6~-1dBm	-15dBm
XFP-10G-ER			1550nm	40km	EML			-1~4dBm	-16.5dBm
XFP-10G-ZR			1550nm	80km		APD		0~5dBm	-24dBm
>XFP BIDI									
XFP-B1023L-20	XFP	10G	1270/1330nm	20km	DFB	PIN	LC	-5~0dBm	-15dBm
XFP-B1032L-20			1330/1270nm	20km				-5~0dBm	-15dBm
XFP-B1045L-80			1490/1550nm	80km	EML	APD		0~4dBm	-24dBm
XFP-B1054L-80			1550/1490nm	80km				-1~3dBm	-24dBm
>XFP CWDM									
XFP-C10xxL-20	XFP	10G	1270-1330nm	20km	DFB CWDM	PIN	LC	-1~4dBm	-15dBm
XFP-C10xxL-40			1470-1610nm	40km	EML CWDM			-1~4dBm	-16.5dBm
XFP-C10xxL-80			1470-1610nm	80km		APD		0~5dBm	-24dBm
>XFP DWDM									
XFP-D10xxL-40	XFP	10G	DWDM	40km	EML DWDM	PIN	LC	-1~4dBm	-16.5dBm
XFP-D10xxL-80			DWDM	80km		APD		0~5dBm	-24dBm

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Copper +SFP

> SFP



SFP-GB-T3
10/100/1000Mbps Copper
SFP Transceiver

> SFP BIDI



SFP-10G-T
10GBASE-T Copper
SFP+ Transceiver

Overview

The Copper Small Form Pluggable (SFP)transceivers are high performance, cost effective module.

SFP-GB-T3 series compliant with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE 802. 3-2002 and IEEE 802.3ab, which supporting 1000Mbps data- rate up to 100 meters reach over unshielded twisted-pair category 5 cable. The module supports1000 Mbps full duplex data-links with 5-level Pulse Amplitude Modulation (PAM) signals. All four pairs in the cable are used with symbol rate at 250Mbps on each pair. The module provides standard serial ID information compliant with SFP MSA, which can be accessed with address of A0h via the 2wire serial CMOS EEPROM protocol. The physical IC can also be accessed via 2wire serial bus at address A0h.

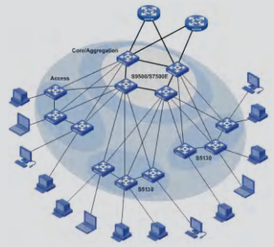
SFP-10G-T series compliant with the 10G Ethernet and 10GBASE-T standards as specified in IEEE 802.3az, which supporting 10Gbps data-rate up to 30 meters reach over unshielded twisted-pair category 6a/7 cables. The module provides standard serial ID information compliant with SFP+ MSA, which can be accessed with address of A0h via the 2wire serial EEPROM protocol. The physical IC can also be accessed via 2wire serial bus at address A0h.

Features

- Up to 1.25Gb/s & 10Gb/s bi-directional data links
- Hot-pluggable SFP footprint
- Fully metallic enclosure for low EMI
- Low power dissipation (1.05 W typical)
- Compact RJ-45 connector assembly
- Access to physical layer IC via 2-wire serial bus
- Operating case temperature: 0°C to 70°C
- RoHS Compliant
- 1000 BASE-T operation in host systems with SERDES interface (SFP-GB-T3)
- 10/100/1000Mbps compliant in host systems with SGMII interface (SFP-GB-T3)
- Supports Links up to 30m using Cat 6a/7 Cable(SFP-10G-T)

Application

- 1.25/10 Gigabit Ethernet over Cat 5 cable



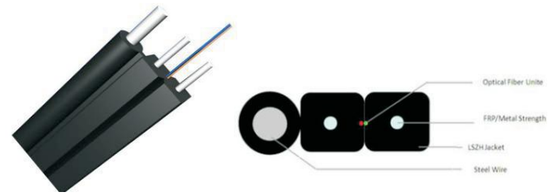
Specifications

Model No.	Package	Data Rate	Reach	Connector
SFP-GB-T1	SFP	10/100/1000M	100m	RJ45
SFP-GB-T3		1000M	100m	
SFP-10G-T		10G	30m	

Outdoor Cable



GJXH/GJXFH:
1/2/4 Fiber, Steel/FRP



GJYXCH/GJYXFCH:
1/2/4 Fiber, Steel/FRP, with Steel Wire

Overview

The AOA indoor optical cable has simple structure, lower weight and high practicability. The design make the cable is to strip and splice which simplify the installation and maintenance. To ensure good performance of crush and tension resistance, two parallel members of FRP or Steel Wires strength the cable.

Features

- Good mechanical and environmental characteristics
- Flame retardant characteristics meet the requirements of relevant standards
- Mechanical characteristics meet the requirements of relevant standards
- Soft, flexible, easy to lay and splice, support large-capacity data transmission
- Meet YD/T1997-2009 Standard
- Single mode fiber can be G657A1(default), G657A2, G652D

Application

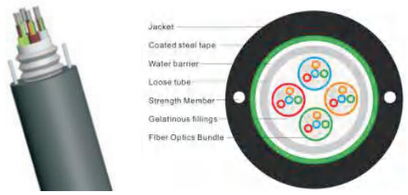
- FTTH, Indoor Horizontal and Vertical Wiring
- Fiber Interior Carpet and Corner Wiring

Specifications

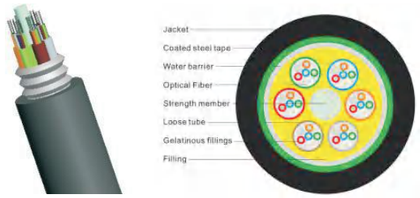
		GJXH/GJXFH			GJYXCH/GJYXFCH		
Sheath Member							
Material		Steel Wire					
		FRP (Fiberglass Reinforced Plastic)					
Sheath							
Fiber count		1	2	4	1	2	4
Material		LSZH			LSZH		
Measurement		3.0*2.0mm	3.0*2.0mm	4.0*2.0mm	5.2*2.0mm	3.0*2.0mm	3.0*2.0mm
Tolerance		+/- 0.15mm					
Mechanical Tests							
Stength Member		FRP		Steel	FRP		Steel
Tensile Strength	Long Term	60N		100N	300N		
	Short Term	100N		200N	600N		
Crush	Long Term	500N		1000N	1000N		
	Short Term	1000N		2200N	2200N		
Minimun bend Radius(mm)	Dynamic	60			60		
	Static	30			30		

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Outdoor Cable



GYXTW: Aerial Central Loose Tube Armored Cable



GYTS: Loose Tube Steel Armored Stranded Cable

Features

- Accurate fiber excess length ensures good performance under mechanical stress
- Material of loose tube with good temperature property and high Young's modulus,the tubes filled with moisture resistant gel for fibers to ensure the long term stability in transmission for two long wavelength windows
- The central strength member are made by high Young's modulus steel wire
- The loose tubes filles with moisture-proof and water blocking compound
- Longitudinal corrugated steel tape laminated at both sides bonding to PE sheath ensures not only radial moisture-proof but also reinforces the crush resistance
- HDPE jacket possesses good ultra violet radiation resistant property

Application

- Long distance and local area network(LAN) communication

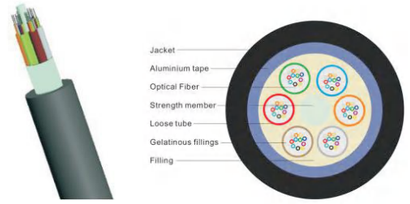


Specifications

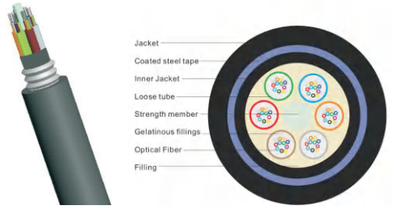
Fiber Count	Dimension (MM)	Weight (kg/km)	Tensile (N)		Crush (N/100mm)		Min.Bend Radius(mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
GYXTW									
2-12	10.5	125	600	1500	300	1000	20D	10D	-40~+70
14-24	12.0	145	1000	3000	1000	3000			
26-36	12.0	150							
38-48	15.0	205							
GYTS									
2-30	9.5	100	600	1500	300	1000	20D	10D	-40~+70
32-60	11.0	155	1000	3000					
62-96	13.6	190							
98-144	15.0	230							

Note:All the values in the table, which are for reference only, are subject to change without notice.

Outdoor Cable



GYTA: Loose Tube Aluminum Armored Cable



GYTY53: Loose Tube Double PE Sheath Steel Armored

Features

- Accurate fiber excess length ensures good performance under mechanical stress --GYTY53
- Material of loose tube with good temperature property and high Young's modulus,the tubes filled with moisture resistant gel for fibers to ensure the long term stability in transmission for two long wavelength windows
- The central strength member are made by high Young's modulus steel wire
- The loose tubes filles with moisture-proof and water blocking compound
- Longitudinal corrugated steel tape laminated at both sides bonding to PE sheath ensures not only radial moisture-proof but also reinforces the crush resistance
- HDPE jacket possesses good ultra violet radiation resistant property

Application

- Long distance and local area network(LAN) communication
- Moisture-proof and rodent-proof

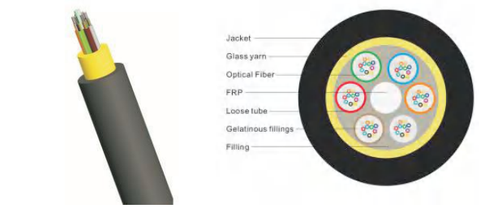
Specifications

Fiber Count	Dimension (MM)	Weight (kg/km)	Tensile (N)		Crush (N/100mm)		Min.Bend Radius(mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
GYTA									
2-30	9.8	95	600	1500	300	1000	20D	10D	-40~+70
32-60	10.3	115							
38-60	10.7	115							
62-72	11.3	140							
74-96	12.9	175							
98-120	14.4	210							
122-144	15.8	245							
GYTY53									
2-24	12.6	185	1000	3000	1000	3000	25D	12.5D	-40~+70
26-36	12.9	195							
38-60	13.4	200							
62-72	13.9	230							
74-96	15.5	275							
98-120	17	320							
122-144	18.4	365							

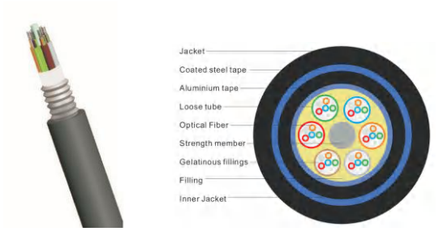
Note:All the values in the table, which are for reference only, are subject to change without notice.

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Outdoor Cable



GYFTY: Loose Tube Non-metallic Stranded Cable



GYTA53: Loose Tube Double Armored Steel Wire Strength

Features

- Material of loose tube with good temperature property and high Young's modulus, the tubes filled with moisture resistant gel for fibers to ensure the long term stability in transmission for two long wavelength windows
- The central strength member are made by high Young's modulus steel wire
- The loose tubes filles with moisture-proof and water blocking compound
- HDPE jacket possesses good ultra violet radiation resistant property

Application

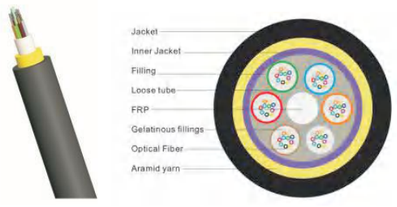
- Long distance telecom, LAN in high-voltage area or access to telecom network
- Especially for power transmission system and high electromagnetic interference

Specifications

Fiber Count	Dimension (MM)	Weight (kg/km)	Tensile (N)		Crush (N/100mm)		Min.Bend Radius(mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
GYFTY									
2-36	10.4	90	600	1500	300	1000	20D	10D	-40~+70
38-60	11.2	105							
62-72	11.7	115							
74-96	13.4	150							
98-120	15.0	190							
122-144	16.6	230							
146-216	16.9	240							
GYTA53									
2-24	13.3	210	1000	3000	1000	3000	25D	12.5D	-40~+70
26-36	13.6	220							
38-60	14.1	225							
62-72	14.6	255							
74-96	16.2	305							
98-120	17.7	350							
122-144	19.1	395							

Note:All the values in the table, which are for reference only, are subject to change without notice.

Outdoor Cable



ADSS : All-Dielectric Self-Supporting Cable



GYXTC8S: Aerial Self-supporting Central Tube Cable

Features

- Accurate fiber excess length ensures good performance under mechanical stress
- Material of loose tube with good temperature property and high Young's modulus, the tubes filled with moisture resistant gel for fibers to ensure the long term stability in transmission for two long wavelength windows
- The central strength member are made by high Young's modulus steel wire
- The loose tubes filles with moisture-proof and water blocking compound
- Longitudinal corrugated steel tape laminated at both sides bonding to PE sheath ensures not only radial moisture-proof but also reinforces the crush resistance
- HDPE jacket possesses good ultra violet radiation resistant property

Application

- Long distance and local area network(LAN) communication

Specifications

Fiber Count	Span (M)	Diameter (mm)	Module (N/mm^2)	Linear Expanding Coefficient(1/K)	Weight (Kg/km)	Safely running strain (N)
ADSS						
Weather condition: 35m/s wind speed and 0mm ice thickness						
24	800	15.5	2.33x10^ 4	0.02x10^ - 6	200	29680
Weather condition: 10m/s wind speed and 5mm ice thickness						
24	800	14.5	2.33x10^ 4	0.02x10^ - 6	185	19600

Note:All the values in the table, which are for reference only, are subject to change without notice.

GYXTC8S

Fiber Count	Steel specs	Weight (kg/km)	Cable outer Diameter (mm)	Messenger wire Diameter (mm)	Min.Bend Radius Dynamic/ Static (mm)	Max.Crush force LongTerm/ Short Term (N/100mm)	Allowable tension (N)	Save tension	Min. Broken tension (N)
2-12	1x7-3.0	135	8.3	5.0	20D/10D	1000/2000	3000	1000	7990

Note: All the values in the table, which are for reference only, are subject to change without notice.

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OM3 Patch Cord



OM3 Fiber Optical Patch Cord

Features

- Low insertion loss, High return loss
- User friendly, compact size
- PVC or LSZH Jacket
- PC/UPC/APC polish
- Good exchangeability and repeatability
- Comply with Telcordia GR-326-CORE Specification

Overview

OM3,10G fiber optic patch cable, SC,LC,FC,ST, MU, MTRJ, E2000, Multimode,50/125,aqua,10gb fiber cable. Typically 10G Patch Cord cable is with 50/125 multimode fiber, with aqua jacket, they can be terminated with various kinds of connectors like LC,SC,FC,ST,MU,MTRJ,E2000 etc ,they support bandwidth up to 10GB.
With the development of multimedia, there is requirement for more and more broad bandwidth for audio and video applications. Nowadays many people need the multimode fiber optic cable that can transmit 10G signal. Fiber Optics 10G Patchcord are designed to meet this requirement ,these 10g fiber optic patch cords are with aqua OM3 50/125 fiber glass and they are typically used in 10 Gigabit Ethernet, our 10 gigabit fiber optic patch cord the bandwidth supported is as specified IEEE802.3z which is for Gigbit Ethernet. 10 gig fiber optic patch cords are manufactured according to TIA-492AAAC-A standard for OM3 cable, and the typical cable color is as per aqua standard which was developed by Lucent technologies

Applications

- Telecommunication
- Testing equipment
- Long-haul telecommunication
- LAN system
- CATV systems

Patch Cord / Pigtail



FC-SC SM DX



ST-LC MM DX

Features

- Superior qualified standard PC/UPC/APC polishing
- Compliant with Telcordia GR-326-Core, TIA/EIA and IEC
- 100% optic test (Insertion Loss & Return Loss)
- 0.9mm, 2.0mm and 3.0mm cable optional
- Simplex / Duplex Optional
- Comply to IEC Standard
- Flexible boot are available
- PVC/LSZH

Overview

AOA offers a variety of SC-LC/FC/ST fiber optic patch cord in Simplex, Duplex and Mini Zip, single mode(SM) and multi mode(MM); The LC/FC/ST-SC patch cords assemblies that could be built to your specification. Please contact AOA for any custom specification patch cords.
LC Fiber Optic Patch Cord stands for Lucent Connector. The LC connector uses a 1.25 mm ferrule, half the size of the ST. Also, it is a standard ceramic ferrule connector. The LC has good performance and is highly favored for single mode.
SC Fiber Optic Patch Cord stands for Subscriber Connector- a general purpose push/pull style connector developed by NTT. The square, snap-in connector latches with a simple push-pull motion and is keyed. They feature a 2.5mm ferrule and molded housing for protection.
FC Fiber Optic Patch Cord stands for Fixed Connection. It is fixed by way of a threaded barrel housing. FC connectors were designed for use in high-vibration environments. The FC connector is the most popular connector used today.
ST Fiber Optic Patch Cord stands for Straight Tip- a quick release bayonet style connector developed by AT&T. The ST connector has a bayonet mount and a long cylindrical ferrule to hold the fiber. Because they are spring-loaded, you have to make sure they are seated properly.

Specifications

Type	Single mode(UPC)	Single mode(APC)	Multi-mode (PC)
Insertion loss	≤ 0.2 dB	≤ 0.2 dB	≤ 0.2 dB
Return Loss	≥ 55 dB	≥ 65 dB	≥ 35 dB
Repeatability		≤ 0.1dB	
Durability	≥ 1000matings		
Operating Temperature	-40 °C to +80 °C		
Tensile Strength(N)	≥90N (ϕ3), ≥70N (ϕ2)		

Order Information

Port	Polishing	Port	Polishing	Fiber Type	Cable Type	Fiber Length	Jacket
FC=FC SC=SC ST=ST LC=LC MU=MU RJ=MT/RJ E2=E2000 D4=D4 FI=FDDI EN=ESCON	U=UPC A=APC	FC=FC SC=SC ST=ST LC=LC MU=MU RJ=MT/RJ E2=E2000 D4=D4 FI=FDDI EN=ESCON	U=UPC A=APC	SM=SM 9/125um M5=MM 50/125um M6=MM 62.5/125um O3=MM OM3 O4=MM OM4	S9=Simplex 0.9mm S2=Simplex 2.0mm S3=Simplex 3.0mm D2=Duplex 2.0mm D3=Duplex 3.0mm DR=Round Duplex (for MT/RJ only)	1M=1meter 2M=2meter	P=PVC L=LSZH

Example:SCU-SCU-SM-S2-003M-P SC/UPC-SC/UPC SM 2.0mm 3meter PVC

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Drop Cable Patch Cord



Self-support Drop cable Patch cord/Pigtail

Features

- Pre-terminated SC/PC or SC/APC connectors
- Pre-terminated FC/PC or FC/APC connectors
- Low insertion loss, high return loss
- Widely applied in Fiber to the home solutions

Overview

Drop Cable Patch Cord, with Connector pre-terminated on both ends. The operator could directly plug the cable to the adapter without splicing in field, which will decrease the loss of the optical distribution network, as well as decrease the operation time in the subscriber end.

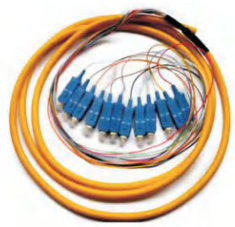
Applications

- FTTH
- Light communication system
- Common antenna TV system

Specifications

Item		Specification	
		Single-mode	Multi-mode
returnloss		UPC ≥ 50dB,APC ≥ 60dB	≥ 40dB
Insertionloss		≤0.3dB	
Repeatability		≤0.1dB	
Interchange		≤0.2dB	
Fiber Count		1/2 Core	
Durability		≥1000matings	
OperatingTemperature		-40 ~ +85°C	
Fiber Cable	Fiber Type	G657A or G652	
	Jacket Color	Black or White	
	Jacket Material	LSZH or PVC	
	Jacket Dimension	(5.1±0.1)mmX (3.0±0.1)mm	
StrengthMember		FRP& Steel Wire	
Connectortype		SC、FC、LC or Others	

Fan out Patch Cord



Fan out SC-UPC SM 12Core 0.9mm 2M PVC

Features

- High precision LC connector series with competitive pricing
- Provide high density mounting in any optical equipment
- Excellent optical performance
- Available for both SM, MM, simplex and duplex
- 0.9mm, 2.0mm, 3.0mm cable diameter option

Applications

- Telecommunication
- Testing equipment
- Long-haul telecommunication
- LAN system
- CATV systems

Overview

Optical pigtail is a piece of fiber optic cable with only one fiber optic connector on one side of the cable, there are single mode and multimode fiber optic pigtails, which can be with various types of fiber optic terminations such as SC, FC, ST, LC, MU, MT-RJ, MTP, MPO, etc.Fiber optic pigtails the typical use is to link the fiber optic cable with fiber optic equipment, the multi-pigtail with connector side is used to link the equipment, while the other side of the fan out pigtail is melted together with the fiber cable, by melting together the fiber glasses, it can reach a minimum insertion loss. Common types of fiber optic pigtails are usually with 0.9mm fiber cable diameter, and usually installed inside ODF unit. Most commonly used types are SC fiber optic pigtail, ST fiber optic pigtail, FC fiber optic pigtail, LC fiber optic pigtail, MT-RJ fiber optic pigtail, SC/APC fiber optic pigtail, and FC/APC fiber optic pigtail and E2000 fiber optic pigtail.

MPO Serial





MPO-MTP patch cord

Features

- Simplex or Duplex MPO MTP assemblies optional
- Low insertion loss and high return loss
- Cable lengths and cable types optional
- PC or UPC or APC termination types

Overview

MPO fiber optic patch cord is a multi-fiber patch cord with fiber count of 4, 8 or 12. Fiber optics MPO connectors use Precision molded MT ferrules, together with metal guide pins and precise housings ensuring fiber alignment when mating.

Applications

- Connection of optical transmission equipments and devices
- Telecom and datacom applications

Specifications

Patch Cord / Pigtail Spec						
Type	Grade. G			Grade. P		
Insertionloss	SM		MM	SM		MM
Return Loss	UPC	APC		UPC	APC	
Durability	≤0.75 dB	≤0.75 dB	≤0.5dB	≤ 0.3 dB	≤ 0.3 dB	≤0.3dB
OperatingTemperature	≥40 dB	≥55 dB		≥ 40 dB	≥ 55 dB	
Type	0.3dB Max. Increase					
Insertionloss	-20 ℃ to +70 ℃					

MPO Serial



MPO cassette

Features

- Space Saving Design
- Installer Friendly
- 100% Performance Guarantee
- Save installation time and labor
- Can be loaded with Wall or Rack LGX Enclosures
- Cable terminated in high density MTP/MPO connectors
- Available in 12 fiber and 24 fiber configurations

Overview

MTP/MPO Fiber Cassettes are specially designed to reduce installation time and cost for an optical network infrastructure in the premises environment. The Cassette is compact in size with SC or LC duplex port adaptors at the front and MPO/MTP adaptor(s) at the back. This system enables a multifiber MTP trunk cable connection break-out into simplex- or duplex-style connectors.



MPO cassette

Features

- Easy for installation and operation
- 19'' standard structure
- Sliding tray design
- Available for the installation of FC/SC/ST/LC adapters
- FTTX FTTH solutions

Overview

1RU MTP/MPO Patch Panel mounts up to 3 MPO cassettes in a 19" arrangement taking only 1U height. The Patch Panel has a sliding tray to provide easy access, connection and securing of the MTP Trunk Cables to the rear of the cassettes. Blank panels are included for the unused apertures within the patch panel. The 19"mounting brackets are adjustable to allow the panel to be set further back in the cabinet mounting frames.

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ABS box PLC Splitter



PLC-A-102



PLC-A-104/108



PLC-A-116/132/164

Overview

The AOA single-mode Planar Lightwave Circuit Splitter (PLCS) are developed based on unique silica glass waveguide process with reliable precision aligned fiber pigtail in a miniature package, it provides a low cost light distribution solution with small form factor and high reliability.

The 1x2/4/8/16/32/64 PLC Splitter devices have high performance in terms of low insertion loss, low PDL, high return loss and excellent uniformity over a wide wavelength range from 1260nm to 1620nm and working in temperature from -40°C to +80°C. The PLC Optical Splitters have standard configurations of 1x4, 1x8, 1x16 and 1x32 configurations, as well as customized structures of 2x8, 2x16, 2x32.

Specifications

Parameters	Specifications					
Channel Number	1x2	1x4	1x8	1x16	1x32	1x64
Operating Wavelength(nm)	1260~1650					
Insertion Loss(dB)	without connector≤3.9 with connector≤4.1	without connector≤7.2; with connector ≤ 7.4	without connector ≤ 10.3; with connector ≤ 10.5	without connector ≤ 13.6; with connector ≤ 13.8	without connector ≤ 16.7; with connector ≤ 16.9	without connector ≤ 20.3; with connector ≤ 20.5
Loss Uniformity(dB)	≤0.5	≤ 0.7	≤ 1.0	≤ 1.4	≤ 1.8	≤ 2.0
Polarization Dependent Loss(dB)	≤ 0.2	≤ 0.2	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.4
Return Loss(dB)	UPC≥50; APC≥55					
Directivity(dB)	≥ 55					
Package Dimension(mm)	90×20×10	100×80×10	100×80×10	120×80×18	120×80×18	141×115×18
Operating Temperature(°C)	-40~85					
Storage Temperature (°C)	-40~85					

Steel tube PLC Splitter



PLC-S-102



PLC-S-104/108



PLC-S-116/132/164

Overview

The AOA single-mode Planar Lightwave Circuit Splitter (PLCS) are developed based on unique silica glass waveguide process with reliable precision aligned fiber pigtail in a miniature package, it provides a low cost light distribution solution with small form factor and high reliability. Compliant with Telcordia GR-1209, Telcordia GR-1221, IEC 61753-1 and IEC 61755-1 Grade B.

The 1x2/4/8/16/32/64 Steel tube PLC Splitter devices have high performance in terms of low insertion loss, low PDL, high return loss and excellent uniformity over a wide wavelength range from 1260nm to 1620nm and working in temperature from -40°C to +80°C. The PLC Optical Splitters have standard configurations of 1x4, 1x8, 1x16 and 1x32 configurations, as well as customized structures of 2x8, 2x16, 2x32.

Specifications

Parameters	Specifications					
Channel Number	1x2	1x4	1x8	1x16	1x32	1x64
OperatingWavelength(nm)	1260~1650					
Fiber type	G657A1 (default)					
Connectortype	Without connector,SC/UPC, SC/APC					
Insertion Loss(dB)	without connector ≤3.9; withconnector ≤4.1	without connector ≤7.2; withconnector ≤7.4	without connector ≤10.3; withconnector ≤10.5	without connector ≤13.6; withconnector ≤13.8	without connector ≤16.7; withconnector ≤16.9	without connector ≤20.3; withconnector ≤20.5
Loss Uniformity(dB)	≤0.5	≤0.7	≤1.0	≤1.4	≤1.8	≤2.0
Polarization Dependent Loss(dB)	≤0.2	≤0.2	≤0.3	≤0.3	≤0.3	≤0.4
Return Loss(dB)	UPC≥50; APC≥55					
Directivity(dB)	≥55					
Package Dimension(mm)	Bare: 40x4x4 Fan-Out:60×7×4	Bare: 40x4x4 Fan-Out:60×7×4	Bare: 40x4x4 Fan-Out:60×7×4	Bare: 50x7x4 Fan-Out: 60×12×4	Bare: 50x7x4 Fan-Out: 80×20×6	Bare: 60x12x4 Fan-Out: 100×40×6
OperatingTemperature (°C)	-40~85					
Storage Temperature (°C)	-40~85					

Features

- Compact design
- Low insertion loss and low PDL
- High reliability
- High channel counts
- Wide wavelength range
- Large operating temperature range
- Customized packaging and configuration

Applications

- FTTx Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Other applications in fiber optic systems

Ordering Information

Technology	Package	Port	Fiber Type	Input Pigtail	Fiber Length	In/Out Connector
PLC	B=Bare Fiber S=Steel Type A=ABS Box M=Modular R=Rack Mountd C=customized	102=1×2 104=1×4 108=1×8 116=1×16 132=1×32 164=1×64 201=2×2 204=2×4 208=2×8 216=2×16 232=2×32 264=2×64	1=G652D 2=G657A C=customized	1=Bare Fiber 2=900um jacket fiber 3=2.0jacket fiber 4=3.0jacket fiber	1=1M 2=1.2M 3=1.5M C=customized	0=Without connector 1=SC/PC 2=SC/APC 3=FC/PC 4=FC/APC 5=LC/PC 6=LC/APC C=customized

Example:PLC-S-104-2-2-1-1: Steel Type 1×4 G657A 0.9mm 1M SC/UPC

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CWDM



Mux/Demux Module

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Overview

Coarse wavelength division multiplexer (CWDM Mux/Demux) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path.

Application

- Line monitoring
- WDM network
- Telecommunication
- Cellular application
- Fiber optical amplifier
- Access network

Specifications

Parameter		4Channel		8Channel		16 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength(nm)		ITU&ITU+1					
Center wavelength Accuracy (nm)		±0.5					
Channel Spacing (nm)		20					
Channel Passband bandwidth (nm)		±6.5					
Insertion Loss (dB)		⩽1.6		⩽2.5		⩽3.5	
Channel Uniformity (dB)		⩽0.6		⩽1.0		⩽1.5	
Channel Ripple (dB)		0.3					
Isolation(dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
InsertionLoss TemperatureSensitivity (dB/ °C)		<0.005					
WavelengthTemperatureShifting (nm/ °C)		<0.002					
PolarizationDependentLoss (dB)		<0.1					
Polarization Mode Dispersion (PS)		<0.1					
Directivity (dB)		>50					
Return Loss (dB)		>50					
MaximumPower Handling (mW)		500					
OperatingTemperature (°C)		-20~70					
Storage Temperature (°C)		-40~85					
Dimension(mm) (ABS or Aluminium)		1= L100 x W80 xH10 (2~9CH) 2=L120xW80xH18 (10~16CH)					

Order information

Type	Channel Spacing	Channel No.	Channel	Fiber type	Pigtail Type	Fiber length	Connector
CWDM	1:MUX 2:DMUX 3:OADM	02=2 Channel 04=4 Channel 18=18 Channel N=N Channel ……	1-1270~1610 2-1271~1611	1-G652D 2-G657A 3-Other	A-Bare fiber B-900um loose tube C-900um tighttube D-2.0mm loose tube E-3.0mm loose tube	00-Other 05-0.5m 10-1m 15-1.5m 20-2 m	1-FC/PC 2-FC/APC 3-SC/PC 4-SC/APC 5-LC/PC 6-LC/APC 7-Other

DWDM



100GHz Dense Wavelength Division

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Overview

100GHz dense wavelength division multiplexer (DWDM module) utilizes thin film coating technology and proprie tary design of non-flux metal bonding micro optics packaging to achieve optical add and drop at the ITU wavelengths. It provides ITU channel center wavelength, low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path. It can be used for wavelength add/drop in telecommunication network system.

Application

- Channel Add/Drop
- DWDM Network
- Wavelength Routing
- Fiber Optical Amplifier
- CATV fiberoptic System

Specifications

Parameter		4Channel		8Channel		16 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength(nm)		ITU 100 GHz Grid					
Channel Spacing (GHz) GHz)		100					
Channel Passband (@-0.5dB bandwidth) (nm)		⩾0.22					
Insertion Loss(dB) with connector		⩽1.6		⩽2.8		⩽4.2	
Channel Ripple(dB)		0.3					
Isolation(dB)	Adjacent	>30					
	Non-adjacent	>40					
InsertionLoss Temperature Sensitivity (dB/°C)		⩽0.005					
Wavelength Temperature Shifting (nm/°C)		<0.002					
Polarization Dependent Loss (dB)		<0.1					
Polarization Mode Dispersion (PS)		<0.1					
Directivity (dB)		>50					
Return Loss (dB)		>50					
Maximum Power Handling (mW)		500					
Operating Temperature (°C)		-10~80					
Storage Temperature (°C)		-40~85					
dimension (mm) (ABS or Aluminium)		L100xW80xH10 (A: 2 CH～8CH Module) L120xW80xH18 (B:9 CH～16CH Module) L140xW115xH18 (C: >16CH Module)					

Order information

Type	Channel Spacing	Channel No.	Channel	Fiber type	Pigtail Type	Fiber length	Connector
DWDM	50=50G 100=100G 200=200G	02=2 Channel 04=4 Channel 16=16 Channel N=N Channel ……	O:1260~1360nm E+S:1360~1530nm C:1530~1565nm L:1565~1625nm C20=1561.42nm ……	1-G652D 2-G657A 3-Other	A-Bare fiber B-900um loose tube C-900um tighttube D-2.0mm loose tube E-3.0mm loose tube	00-Other 05-0.5m 10-1m 15-1.5m 20-2 m	1-FC/PC 2-FC/APC 3-SC/PC 4-SC/APC 5-LC/PC 6-LC/APC 7-Other

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