Actuating Optical Advances

AOA Technology

About us

AOA Technology Co. Ltd provides high-quality fiber optic products related to fiber network projects. Founded in the year 2000 in Shenzhen, China, we have been continually dedicated to providing high-quality at a competitive price.

We continually improve the quality of our products: Fiber Passive Components, Active Device, Cable Management, FTTH products.

All of our products are used in various fields (and are widely accepted in many countries); they include: traffic, telecommunication, broadcast television, and electrical power.

The products are all tested and guaranteed to comply with: ISO 9001:2008 standards, the FCC, CE and ROSH standards.

We warrant our products; Our warranty includes:
1) within one-year we will replace a defective product with a new one,
2) within three (3) years we will repair the product for free,
3) We give life-time maintenance of our products.

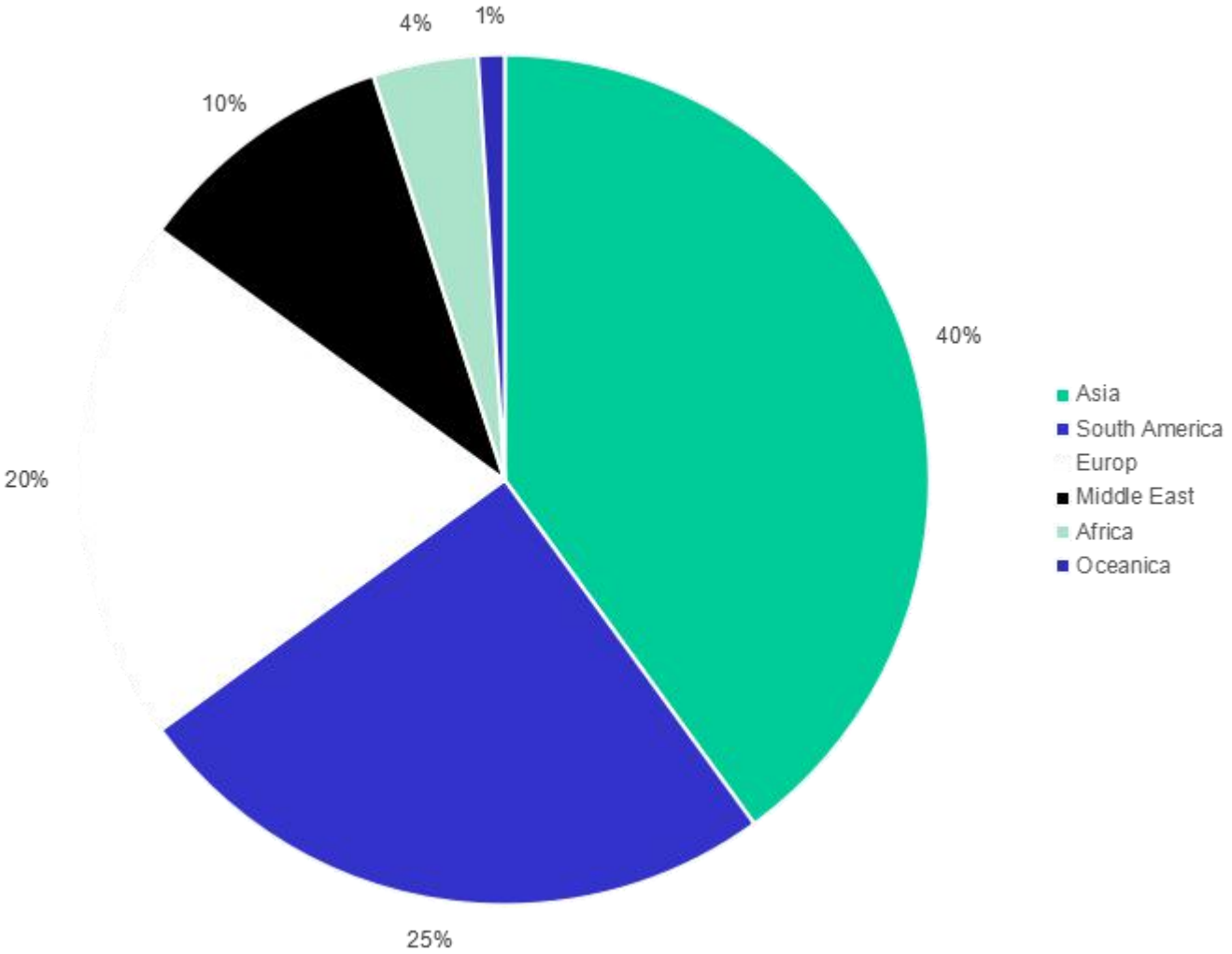




Exhibitions

AOA Technology

2017 Main Markets



AOA Technology

Why us

- **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 500pcs 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, Latin America-Claro

AOA Technology

Production Process of Media Converter

- Components inspect and test
- **48 hours Power supply aging test**
- Semi-manufactured goods test
- **48 hours manufactured goods dynamic aging test**
- Manufactured goods Smartbit test about **Packet Loss and Throughput**
- QA random inspection

AOA Technology

Production Process of Fiber Optic Patch Cord

AOA Technology

Step.1 Cable Cutting

Use the cable cutting machine to cut the cable into specific length according to the customers' needs. The cable cutting machine can automatically calculate the cable length and cut in a precise way.

Step.2 Cable Cleaning & Pre-handling

Need to clean the cable after cutting to make sure the fiber inside without any dust before inserting connector. Put the cable in good sequence so that it would be very easy to insert connector.

Step.3 Cable Stripping & Indentifying

Use the jacket stripper to strip the outer and inner jacket of the cable and use the pastes to indentify the cable for producing the duplex or multi patch cord.

Step.4 Glue Injection & Fiber Inserting

Inject some glue on the surface of the fiber and then inserting the fiber into the connector. Usually it is professional glue called 353 epoxy.

Step.5 Fiber Solidifying

Use vertical solidification furnace or horizontal solidification furnace to solidify the fiber on the connector.

Production Process of Fiber Optic Patch Cord

AOA Technology

Step.6 Ultrasonic Cleaning & Polishing

After solidifying, the half-finished patch cords need to be cleaned with ultrasonic cleaning machine. The interface of the connector needs to be polished to make sure the fiber would be one the same line as the ferrule.

Step.7 Microscope Inspection

Use 400 times or 600 times microscope to inspect the interface of the connector to make sure it clean. If there is any dust on the interface, we need to re-clean the connector again

Step.8 Kits Assembly & FQC

Assembly the other parts of connectors to the patch cords and use the inspection machines to do the FQC.

Step.9 R.L & I.L Test

It is important to test the patch cord for insertion and return loss value since they are the key factors affecting the function of patch cords.

Step.10 Packaging

After all the testing, the patch cords would be packed according to customers' needs. Usually, each patch cord would be packed in one bag in order to keep it safer.

AOA Tech Certificate

AOA Technology


sira
CERTIFICATION
QUALITY MANAGEMENT SYSTEM CERTIFICATE
AOA TECHNOLOGY CO.,LTD.
ISO9001:2008 idt GB/T19001-2008
Manufacture and sales of FOT (fiber optical transceivers), optical video(outside the scope of 3C)
IAF
Sira Certification Service

ISO9001:2008


EST Standard Testing & Certification
Certificate of Conformity
AOA TECHNOLOGY CO., LIMITED
Fiber Media Converter
CE

Media Converter CE


EST Standard Testing & Certification
Certificate of Conformity
AOA TECHNOLOGY CO., LIMITED
CE

Video Converter CE

AOA Tech Certificate

AOA Technology

10/100M Industrial Media Converter CE IMC1100

10/100/1000M Industrial Media Converter CE IMC3100

10/100M Industrial Fiber Switch CE IFS1400

10/100/1000M Industrial Fiber Switch CE IFS3400

AOA Tech Certificate

AOA Technology

EST Standard Testing & Certification

Certificate of Conformity

According to Electromagnetic Compatibility (EMC) Directive 2014/30/EU

Certificate No.: ESTBA161201207E

Applicant : AOA TECHNOLOGY CO., LIMITED
5/F North, Chuangyu Jindi Technology Park, No.1222 Guanguang Rd., Baoan District, Shenzhen, China

Manufacturer : AOA TECHNOLOGY CO., LIMITED
5/F North, Chuangyu Jindi Technology Park, No.1222 Guanguang Rd., Baoan District, Shenzhen, China

Trade Mark : Aoa

Product : SFP Transceiver

Model No. : SFP-81618L-20D, SFP-81636L-20D, SFP-81668L-20D

Parameters : DC 3.3V

Test Report No. : ESTBA161201207E

Test Standard(s) : EN 61000-6-3: 2007+A1: 2011
EN 61000-6-2: 2014
EN 61000-3-3: 2013
EN 61000-6-1: 2007

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all revision of Annex III of Council Directive 2014/30/EU, in its latest amended version, referred to the EMC Directive. The certificate does not imply assessment of the series-production of the product and does not permit the use of EST logo. The applicant of the certificate is authorized to use this certificate in connection with EC declaration of conformity to Article 10.1 of the Directive.

Javer Cobin
For Chief Executive
Date of Issue: Dec. 15, 2016

CE

The CE Marking may only be used if all relevant and effective EC Directives are complied with

SHENZHEN EXACT STANDARD TESTING TECHNOLOGY CO., LTD.
Room 501, Building 36, Chentian Industrial Park, Section 1st Road, Xixiang, Baoan District, Shenzhen, China
Tel: (86)755-2311 2569 Fax: (86)755-2311 4706 http://www.estcl.cn

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EST Standard Testing & Certification

Certificate of Conformity

According to RoHS Directive 2011/65/EU

Certificate No.: ESTBA161202207R

Applicant : AOA TECHNOLOGY CO., LIMITED
5/F North, Chuangyu Jindi Technology Park, No.1222 Guanguang Rd., Baoan District, Shenzhen, China

Manufacturer : AOA TECHNOLOGY CO., LIMITED
5/F North, Chuangyu Jindi Technology Park, No.1222 Guanguang Rd., Baoan District, Shenzhen, China

Trade Mark : Aoa

Product : SFP Transceiver

Model No. : SFP-81618L-20D, SFP-81636L-20D, SFP-81668L-20D

Test Report No. : ESTBA161202207R

Test Standard(s) : IEC 62321:2008
Directive 2011/65/EU Annex II; recasting 2002/95/EC

This is to certify that, The certificate is based on EST's test results and other related test data provided by applicant, the submitted sample fulfils the requirement of the RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC

Javer Cobin
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SFP Module CE

Product line

AOA Technology

Industrial Switch

Video Optical Converter

Ethernet Switch

SFP Transceiver

Media Converter

FTTH Network

Industrial POE Media Converter/Switch

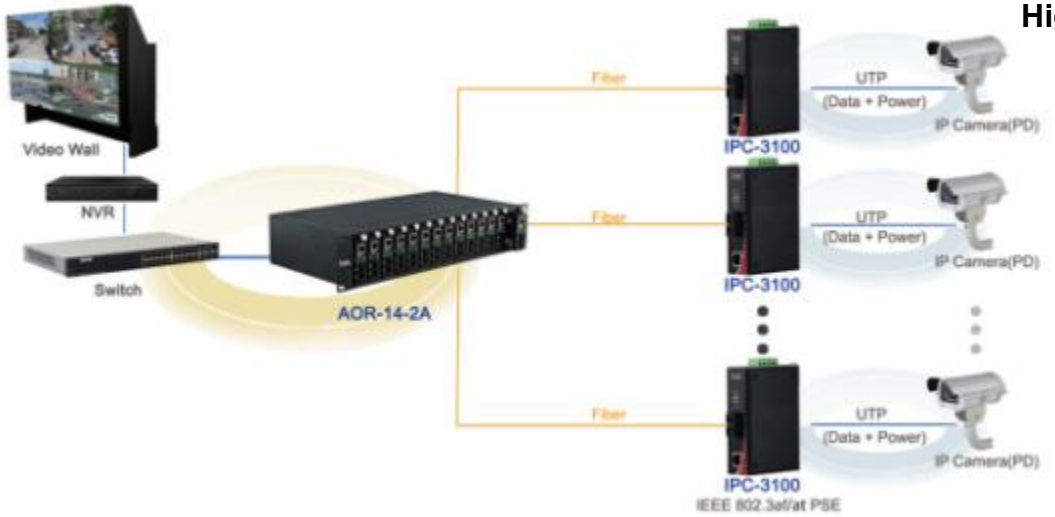
Fiber Switch

Features

- UTP with POE to fiber media converter
- IEEE 802.3af/at complaint
- Built-in LFP (Link-fault-pass-through) function
- Jumbo frame: 9kbytes
- Wide-range redundant power design (12~56VDC)
- Support wide operating temperature (-40ºC ~ +85ºC)
- IP-40 protection
- DIN-Rail and Wall- Mounted Installation

High tempreture test

Applications:



Ethernet Switch

Fiber Switch

Overview

The 10/100/1000M Ethernet Optical Fiber Ethernet Switch with multi 10/100/1000M UTP ports and two 1000M SFP sockets. The end users can use different SFP module according to his requirement, for example: 1000Base-T, 1000Base-SX, 1000Base-LX etc.

Applications:

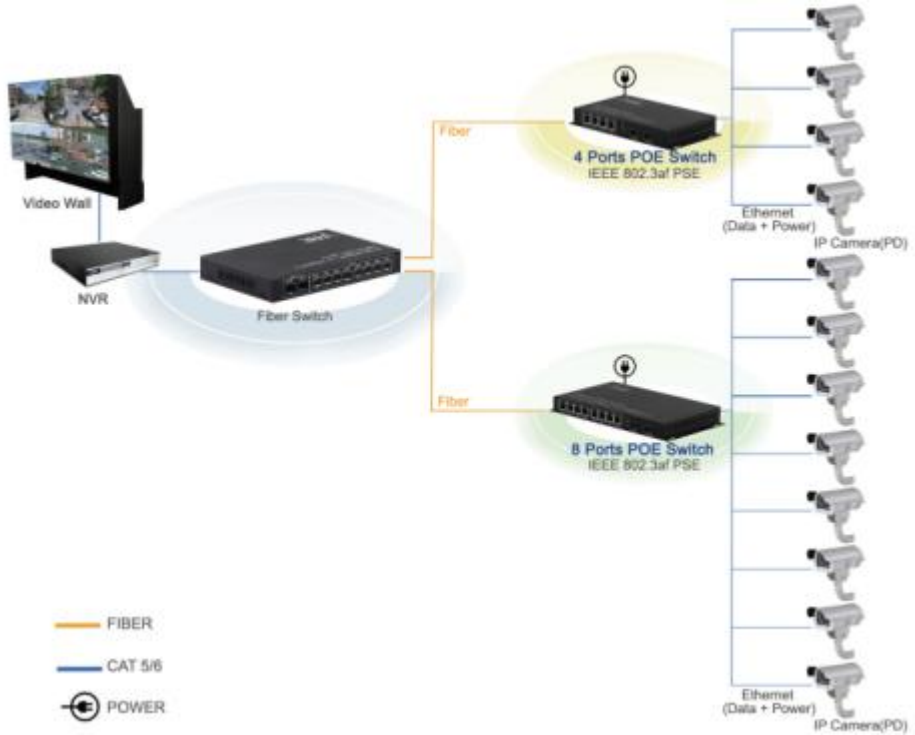
POE Switch

Fiber Switch

Overview

The PoE Fast Ethernet Fiber Switch provide 4/8 Port PoE (Power over Ethernet) which compliance with IEEE802.3af & IEEE802.3at standard; Let you simply connect IP camera / IP phone / Wireless AP at remote site where AC or DC power un-available

Applications:



Fiber Switch

Fiber Switch

Overview

This Giga 8GX2GE switch provides a network point for data transmission. It has 8 10/100/1000Mbps fiber optic SFP ports, and 2 gigabit RJ45 Ethernet Uplink ports. The switch features simple and reliable design, automatic identification Ethernet requirements, duplex and high-speed.

New Product

Applications:

Media Converter- DIP Switch

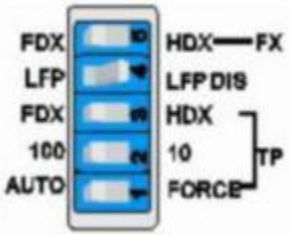
Media Converter

Overview

AOM-1100D is a 10/100Base-TX to 100Base-FX media converter, which features LFP (Link Fault Pass-through) function for easily tracing the network link failure. LFP function can enhance the integrity and conformity of the TP-Fiber linking to improve the maintainability of the network.

Five LEDs are provided to monitor the operation status of the converter and the DIP Switch on the side panel is used to set the required working configurations to meet various applications.

AOM-1100D



Features

- LFP (Link Fault Pass-through) Function with dip-switch
- External Power Adapter or from USB port
- DIP Switch to set configurations
- Built-in Lightning protection chipset

DIP Switch	TP port mode: Auto (default) or Force TP port speed: 100 or 10 when TP at Force TP port duplex: FDX or HDX when TP at Force LFP: LFP enabled (default) or disabled Fiber port duplex: 100 FDX (default) or 100 HDX

Giga Media converter-DIP switch

Media Converter

Overview

AOM-3100D-SFP is 10/1001000M SFP slot fiber media converter,Giga Media Converter which supports LFP (Link Fault Pass-through) function for easily tracing the network link failure.

LFP Fiber Media Converter can enhance the integrity and conformity of the TP-Fiber linking to improve the maintainability of the network. It is powered through external power adapter or uses power from USB port on the hosting device such as PC or NB.

AOM-3100D-SFP

AOM-3100D-S20

Features

- LFP (Link Fault Pass-through) Function
- External Power Adapter or from USB port
- DIP Switch to set configurations
- Supporting 9K Jumbo frame

DIP Switch	1: LFP enabled (default) or disabled 2: Switch mode or Pass through mode 3: Store-and-forward mode or Modified cut through mode

Fiber Video Converter

Why choose fiber optic in CCTV or Security?

	Coaxial Cable	Twisted Pair	Fiber optic
Integrate Cable	Hard	Easy	Easy
Cost	High	Low	High
Distance	100meter	1.5km	20~120km
Anti-jamming	Poor	Good	Very good
Data transmission	No	Yes	Yes

Advantage of Fiber optic in CCTV/Security/Surveillance:

- Big bandwidth, Capacity
- No easy be affected by electromagnetism interfere
- No easy be affected by environment
- Long distance (Coaxial cable is 100 meter, fiber optic is 20~120km)
- No need software supportive
- Easy construction
- Transfer different type signals: Video, Audio, Data, Ethernet

Fiber Video Converter

HD-Video to Fiber Converter

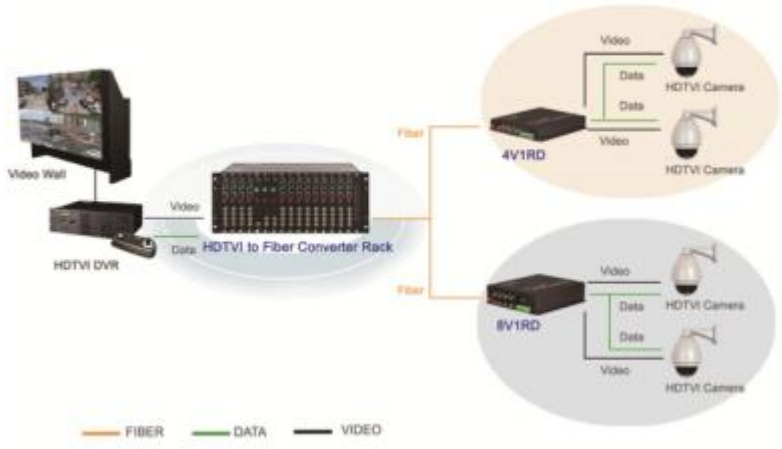
1/2/4/8-ch AHD/TVI/CVI to Fiber

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:

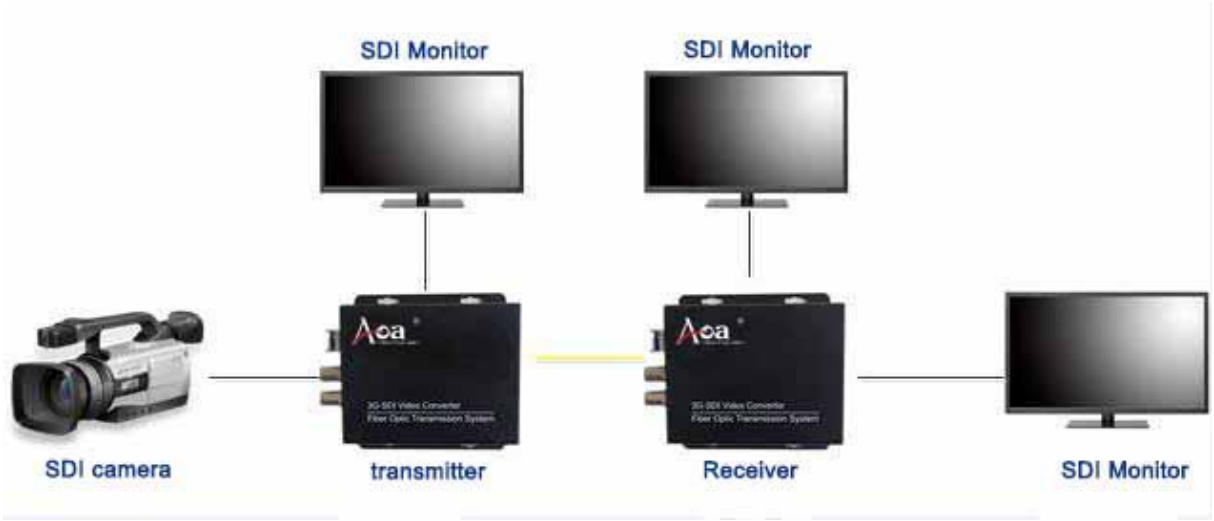
- Non-compression coding technology
- Automatically identify formats of input videos.
- Support transmission of 1/2/4/8 channel HD video signal and controlling data simultaneously though coaxial cable
- DC 5V power supply
- Support 720p/25,720p/30,720p/50,720p/60,1080p/25,1080p/30 videos etc.
- Plug and play, simple installation.



HD-SDI/3G-SDI video to Fiber Converter

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's request comes.

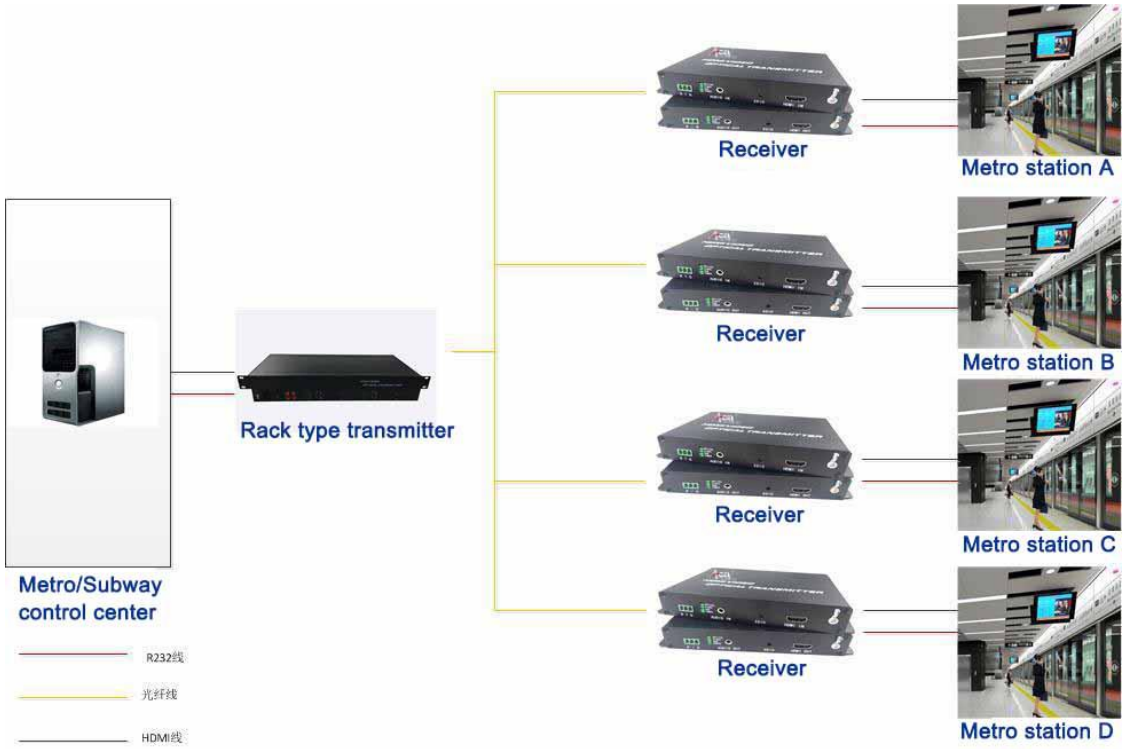


Fiber Video Converter

HDMI video to Fiber Converter

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.



Fiber Video Converter

Fiber Optic Transceivers

Optic Transceivers

SFP Transceiver

SFP+ Transceiver

X2 Transceiver

XENPAK Transceiver

XFP Transceiver

Overview

AOA SFP transceivers are high performance, cost effective modules supporting 155M, 622M, 1.25G, 2.125G/2.5G 4.25G data-rate and 550m~120km transmission distance. It is designed for Fast Ethernet, Gigabit Ethernet and SONET OC-3/SDH STM-1 applications. All modules satisfy class I laser safety requirements.

Patch Cord

Passive Components

Overview

AOA offers a variety of custom Simplex, Duplex and Mini Zip, single mode (SM) and multi mode (MM) patch cords and fiber pigtail assemblies that could be built to your specification. The AOA optical fiber patch cord and pigtail range consist of FC,SC,ST,LC,MTRJ,MU,E2000 and SMA single mode and multimode connectors. Please contact AOA for any custom specification patch cords or pigtails.

Features:

- Superior qualified standard PC/UPC/APC polishing
- 100% optic test (Insertion Loss & Return Loss)
- 0.9mm, 2.0mm and 3.0mm cable optional
- Comply to IEC Standard

Specification:

Type	Single mode (UPC)	Single mode (APC)	Multi-mode (PC)
Insertion loss	≤0.3 dB	≤0.3 dB	≤0.3dB
Return Loss	≥50 dB	≥60 dB	≥35 dB
Repeatability	≤0.1dB		
Durability	≥1000matings		
Operating Temperature	-40℃to +80℃		
Tensile Strength (N)	≥90N (φ3)，≥70N (φ2)		

Fast Connector

Passive Components

Overview

SC Fiber Optic Fast Connector designed for FTTH is a new generation of fiber connector used in assembly. It can provide Open flow and Pre-cast type of products, whose optical and mechanical specification meets the standard optical fiber connector. It is designed for high quality and high efficiency for installation the structure of crimping position is a unique design, and need not gluing, polishing neither any consumables. Adopting fiber pre-installed structure, and convenient for field installation.

Features

- Precise mechanical dimensions
- Low insertion loss, high return loss
- Comply standard of IEC61754-4
- Repeatable times is no less than 50 times;
- Long life span design, more than 30 years.

Specification:

Type	Parameters
Insertion loss	≤ 0.3dB(1310nm & 1550nm)
Return loss	≤ -40dB
Bare fiber strength	>5N
Clad strength	>10N
Tension	>50N
Mechanical durability(500times)	IL ≤ 0.2dB & RL ≤ 5dB
Operating Temperature	5 ºC to +70 ºC

Optical Adapter

Passive Components

Overview

The optical Fiber Adapter is the connection part in the active optical connectors. AOA offers the full range of adapters including FC,SC,ST and hybrid adapters. These adapters are widely used in ODF, optic-fiber communications equipment, optical fiber instruments etc. The combination of a ceramic / phosphor bronze alignment sleeves and a precision moulded polymer housing provides consistent long-term mechanical and optical performance.

Adapter with Shutter

Features:

- Excellent changeability and directivity
- 100% optic test (insertion loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate external size
- Individually packaged

Specification:

Parameters	Zirconia
Operating Temperature	-40 to +85
Connection Durability	1000 Matings
Repeatability	<0.2dB
Insertion Loss	<0.2dB

Optical Attenuator

Passive Components

Overview

To ensure proper performance and to maximize the life of optical receivers, the power received by these photodetectors must fall within their dynamic or operating range. For this reason, fiber optic transmission systems often use Attenuators to reduce or balance the power in the passive optical network.

Features:

- Low cost
- Compact size, light weight
- Available with FC/PC, SC/PC, ST, LC/PC format

Specification:

Parameter	Specifications	
Bulkhead Adaptor Type	FC/PC (Square Type)	
	SC/PC (Flange Type)	
	ST (Thread Type)	
	LC/PC (Flange Type)	
Attenuation (dB)	5,10,15,20	
Accuracy (dB)	5,10	±1.5
	15,20	±10%
Operation Wavelength (nm)	850, 1310, 1550	
Operating Temperature(℃)	-40~ 75	
Humidity	75℃,RH 95%	

PLC Splitter/CWDM/DWDM

Passive Components

Overview

The 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.

Features

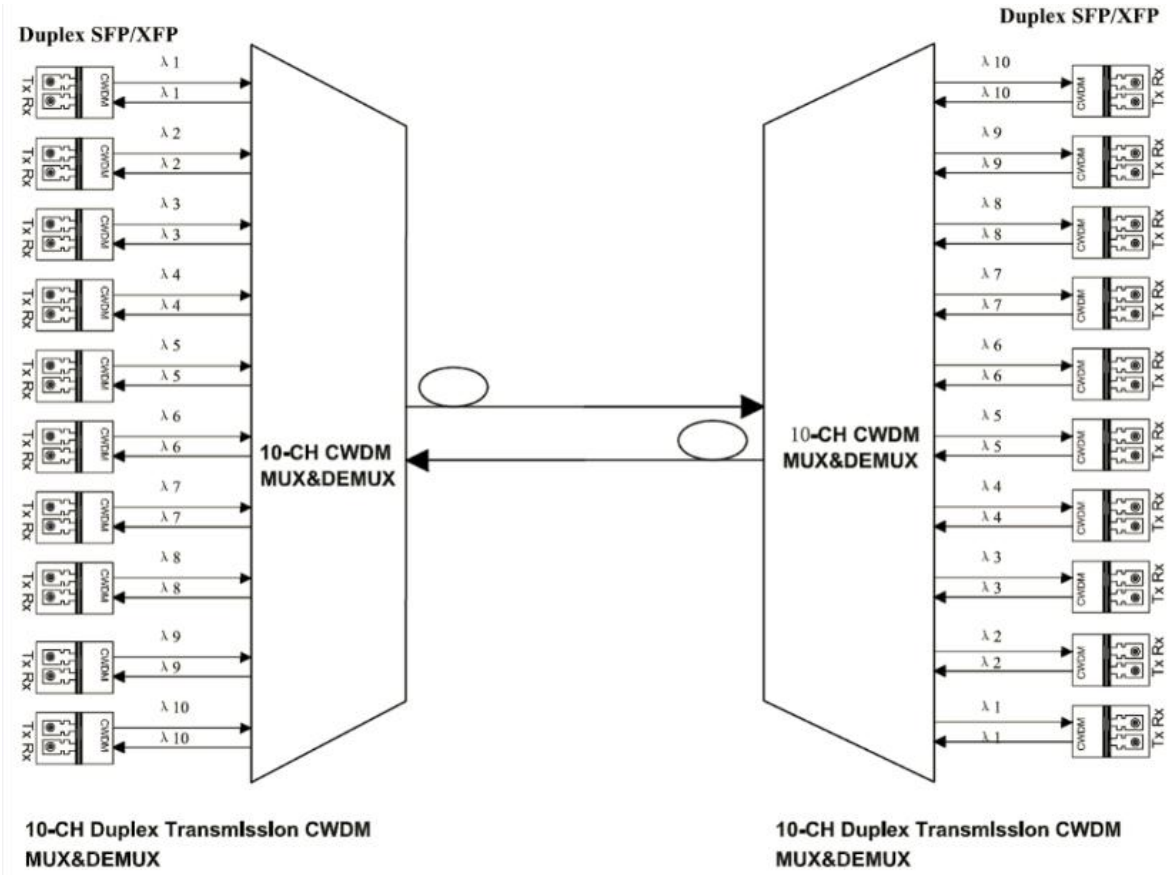
- Compact design
- Low insertion loss and low PDL
- High reliability
- High channel counts
- Wide wavelength range
- Large operatiing temperature range
- Customized packaging and configuration

Application

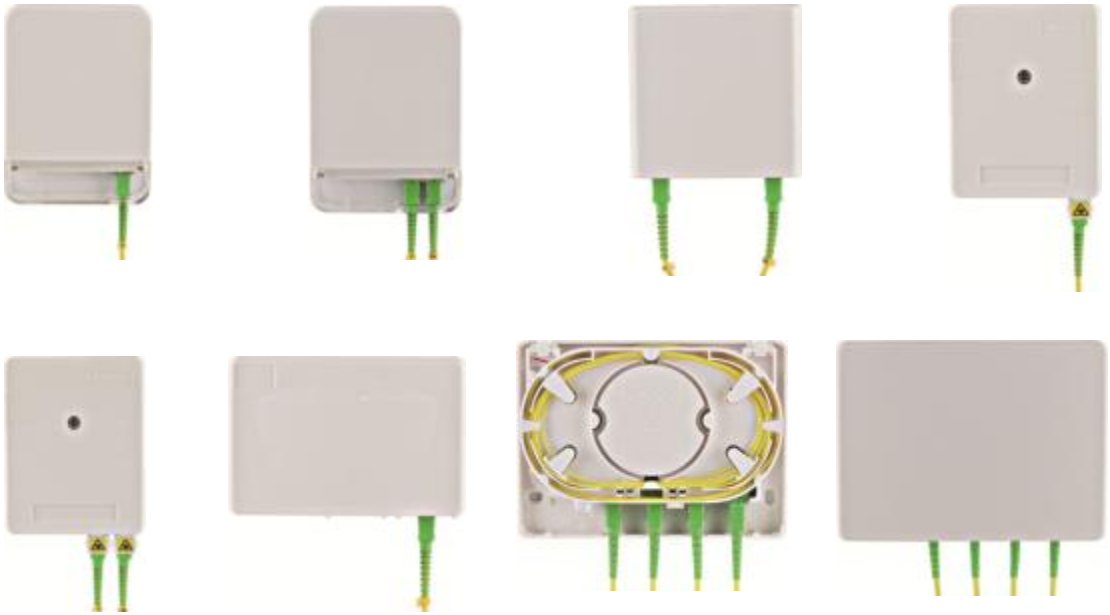
- FTTx Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Other applications in fiber optic systems

PLC Splitter/CWDM/DWDM

Passive Components



FTTH Terminal box



Features:

- Excellent ergonomics design, graceful appearance and convenience operation
- Plug fiber without having to open the shell, easily accessible fiber operation
- Vertically downward port to avoid causing personal injury
- White color, graceful style and good adaptability to environment.
- Fiber cable inlets in every direction, supports the cable inlets for different scenarios.
- Friendly operation interface, high reliability
- Introductions clear, effectively prevent the miss-operation.
- Low construction cost

Cable Management

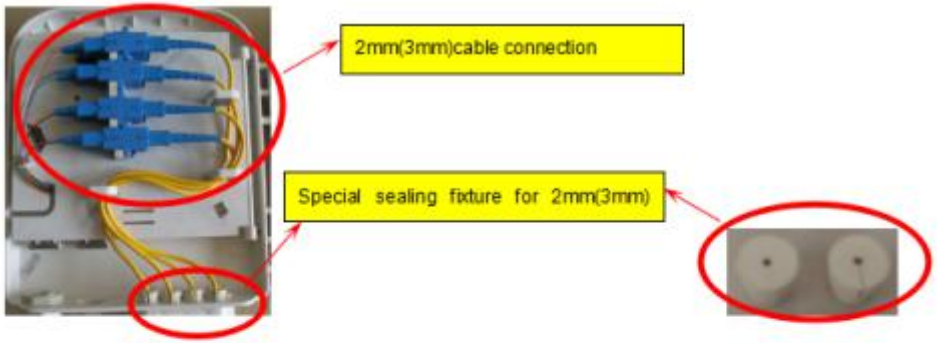
FTTH Distribution Box

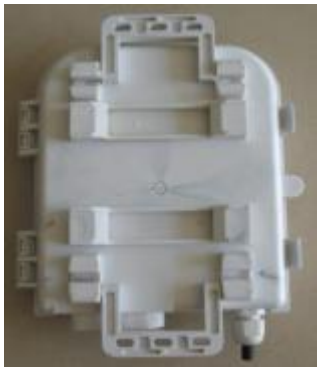
Features:

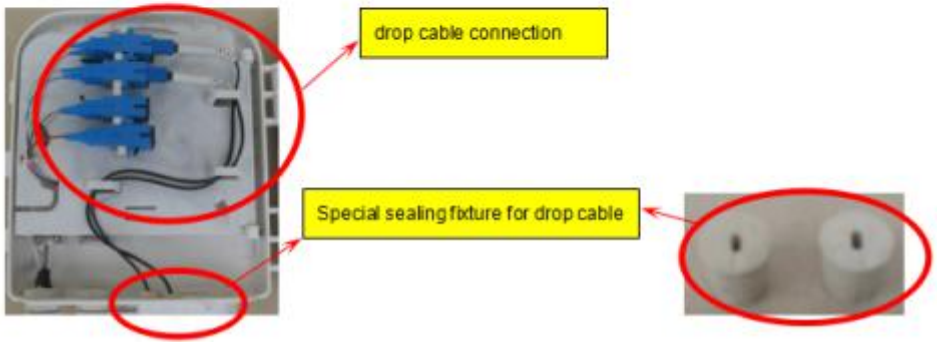
- small size, light weight, pleasing in appearance
- wall mounted with mechanical protection function
- max fiber capacity 4-16 fibers,4-16 adapter output
- available for FC,SC,ST,LC adatpers
- hinge and convenient press-pull button lock design

Cable Management

Quality comparing of the FTTH box







Cable Management

Fiber Termination Box

Cable Management

Features:

- small size, light weight, pleasing in appearance
- 19" Rack, cabinet mountable
- One cabinet design provides OSP cable fibers and pigtail splicing, patch cord termination and storage.
- Slide out features and Modular Adaptor Panel for ease of Installation, Inspection and Testing.
- Fiber panel are designed for FC,SC,ST three types adapters

FTTH Drop Cable

Optical Cable

Overview

The AOA optical drop cable has simple strusture, lower weight and high practicablity. The design make the cable is to stip and splice which simplify the installation and maintenance. To ensure good performance of crush and tension resistance, two parallel members of FRP or Stell 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

Drop cable packing

FTTH Solution

Solution