

Media Converter Introduction

Your Partner in Industrial Communication



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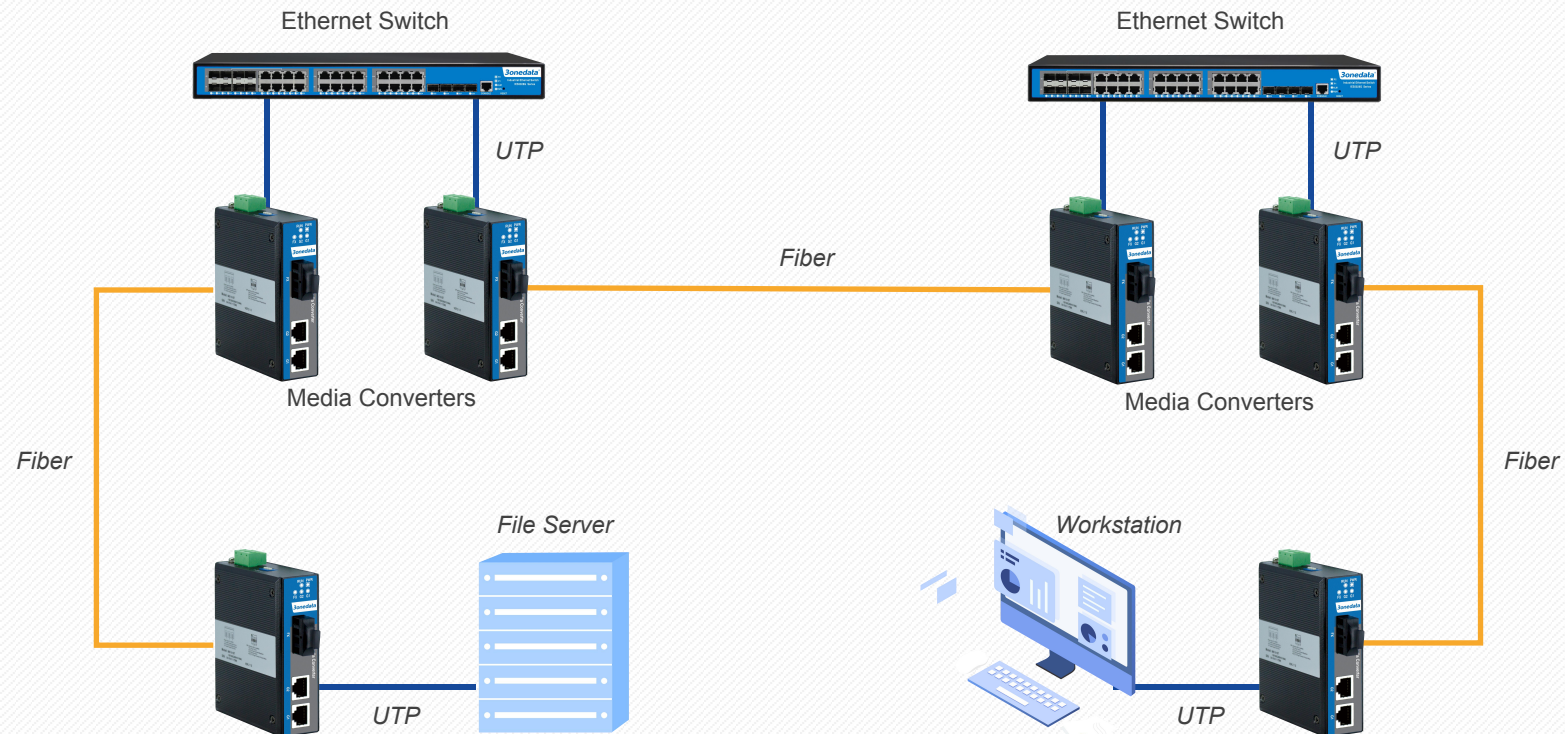
01

About Media Converter

- What is a media converter?
- Why use media converters?

What is a media converter?

A fiber media converter is a simple networking device that connects and translates signals between fiber optic cabling and another type of cabling media such as UTP (unshielded twisted pair) copper Ethernet cables as shown below.



It translates electronic signals to light signals and vice versa.

Why use media converters?

01

Extend LAN Distance with Fiber

Copper-based Ethernet connections are limited to a data transmission distance of 100 metres when using UTP cable. By using Ethernet to fibre conversion, you can extend link distance up to 80 kilometres or more.

02

Protect Data from Interference

Electromagnetic interference, or EMI, can cause corruption of data over copper-based Ethernet links. Data transmitted over fibre optic cable is completely immune to this type of noise, ensuring optimal data transmission and network performance.

03

Maintain Investments in Existing Equipment

Media converters enable you to migrate a local network to fibre while protecting your investment in existing copper-based hardware. This means no costly, time-consuming overhaul to your infrastructure.

04

Speed Conversion

Media converters allow you to convert link speeds from 10 Mbps to 100 Mbps or from 100 Mbps to 1000 Mbps.



02

3onedata Media Converter Introduction

- Product Family
- Technology
- Product Details
- Products Application

Product Family

Entry-level



Model 1100
1-port 100M Ethernet to Fiber



Model 3012
1-port Gigabit Ethernet to Fiber



Model 1200
2-port Fast Ethernet to Fiber



Model 1100M (managed)
1-port Fast Ethernet to Fiber

Standalone



IMC101B-F
1-port 100M Ethernet to Fiber



IMC102B-F
2-port 100M Ethernet to Fiber



IMC101M (managed)
1 Copper + 1 Fiber 100M



IMC100M (managed)
1/2 Copper + 1 Fiber



IMC101GT
1 Full Gigabit Ethernet to Fiber



IMC102GT
2 Full Gigabit Ethernet to Fiber

Unmanaged



RACK2000A
14 Slot Card Rack



Model 1100



Model 3012



RACK2000B
16 Slot Card Rack



Model 1100-C



Model 3012-C

Managed



RACK2000C
16 Slot Card Rack



Model 1100M-C



RACK2100
18 Slot Card Rack



ECU100M



ECU101M



NMU



IMC101M



IMC100M

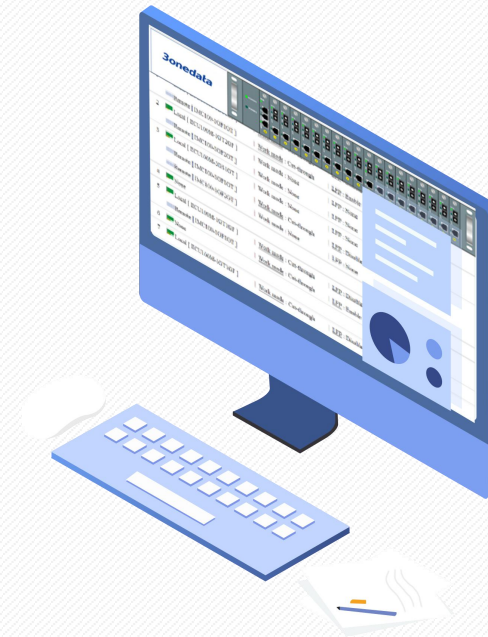
Web Management

Functions

- Device Configuration
- Real-time Monitoring of Network Status
- Fault Reporting and Filtering

Benefits

- Lower network operating costs by sending triggered traps to remote center
- Improves network reliability
- Increases end user satisfaction

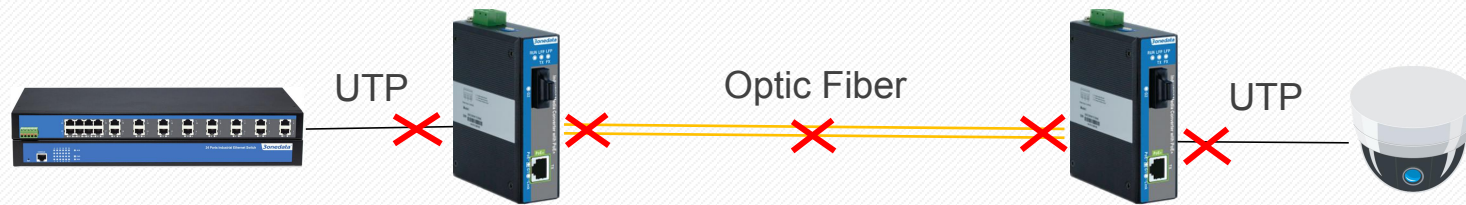


Network Fault



- Configure equipment
- Receive fault notifications and isolate faults

LFP



- If the copper port is down, this fault will be passed to the fiber port ,data will be blocked, and LFP indicator is on
- If the fiber port is down, fault will also be passed to copper ports, LFP indicator will be on

Standalone Media Converter



- Support 1 100M copper port, 1 100M fiber port or 1 100M SFP slot (optional)
- Support 9~48VDC or 100~240VAC/DC device (optional)
- Support -40~75°C wide operating temperature range

IMC101B
DIN-Rail or Wall Mounting
2-port 100M Industrial Media Converter



- Support 1 Gigabit fiber port or SFP slot optional, 2 Gigabit copper ports
- Support input voltage 12~48VDC, nonpolarity, reverse polarity protection
- Support -40~75°C wide operating temperature range

IMC102GT
DIN-Rail 3-port
Full Gigabit Industrial Media Converter



- Support 1 Gigabit fiber port or SFP slot optional, 1 Gigabit copper port
- Support input voltage 12~48VDC, nonpolarity, reverse polarity protection
- Support -40~75°C wide operating temperature range

IMC101GT
DIN-Rail 2-port
Full Gigabit Industrial Media Converter



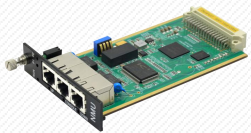
- Support up to 2 100M copper ports, 1 100M fiber port, 2 Gigabit copper ports or 1 Gigabit fiber port
- Input voltage: 12~48VDC or 220VAC
- Support -40~75°C wide operating temperature range

IMC101M-F
DIN-Rail 1/2 Copper Ports + 1 Fiber Port
100M/Gigabit Industrial Media Converter

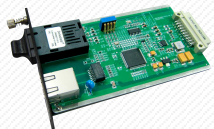


RACK2100

2U Rack Mounting 18-Slot Card Industrial Multi-service Rack



NUM



ECU100M



ECU101M



IMC101M



IMC100M

- Support 18 slots, which can implement centralized management of daughter card of multiple media converters
- Support plug-in management card for SNMP, Telnet, WEB and CLI configuration management
- Support dual power supply, input voltage: 85~264VAC/DC
- Support -40~75°C wide operating temperature range



RPS

NO FAN

RACK2000A

2U Rack Mounting 14 Slot Card/Desktop Media Converter Rack



Model 1100



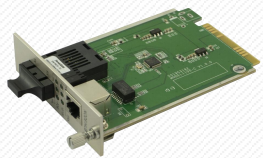
Model 3012

- Support 14/16 slots, allows centralized management of various media converter daughter cards
- Support hot-plugging of media converter
- Support dual power supply, input voltage: 100~260VAC
- Support 0~50°C wide operating temperature range

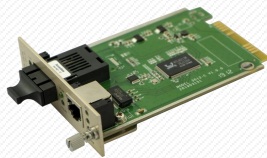


RACK2000B

2U Rack Mounting 16 Slot Card/Desktop Media Converter Rack



Model 1100-C



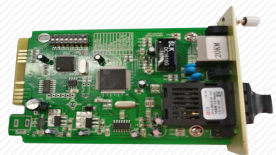
Model 3012-C

- Support 14/16 slots, allows centralized management of various media converter daughter cards
- Support hot-plugging of media converter
- Support dual power supply, input voltage: 100~260VAC
- Support 0~50°C wide operating temperature range



RACK2000C

2U Rack Mounting 16 Slot Card/Desktop Media Converter Rack

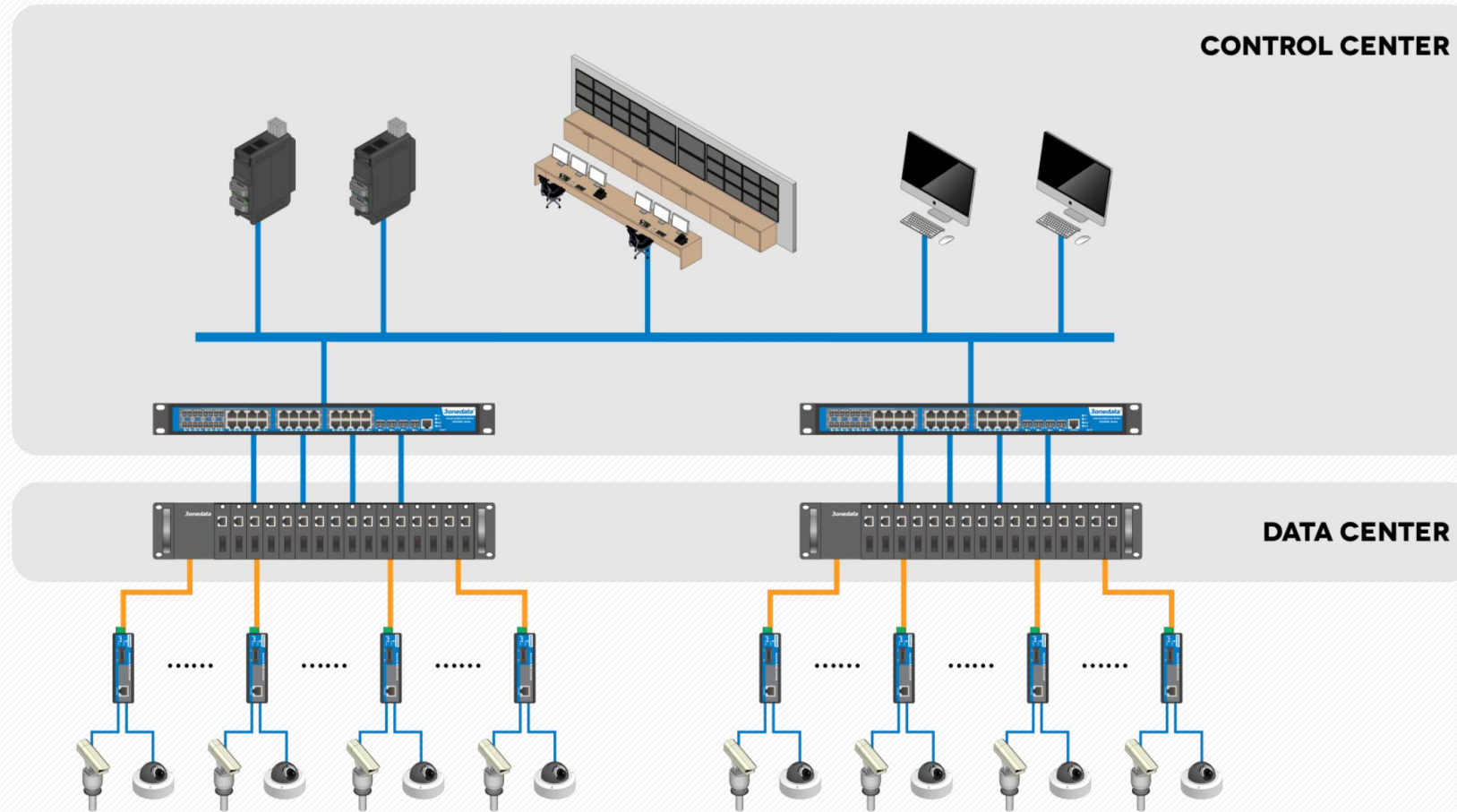


Model 1100M-C

- Support 14/16 slots, allows centralized management of various media converter daughter cards
- Support hot-plugging of media converter
- Support dual power supply, input voltage: 100~260VAC
- Support 0~50°C wide operating temperature range



Video Surveillance System



- Low latency of data transmission
- Long transmission distance of fiber
- Centralized management and control for remote equipment
- Stable and reliable network connection

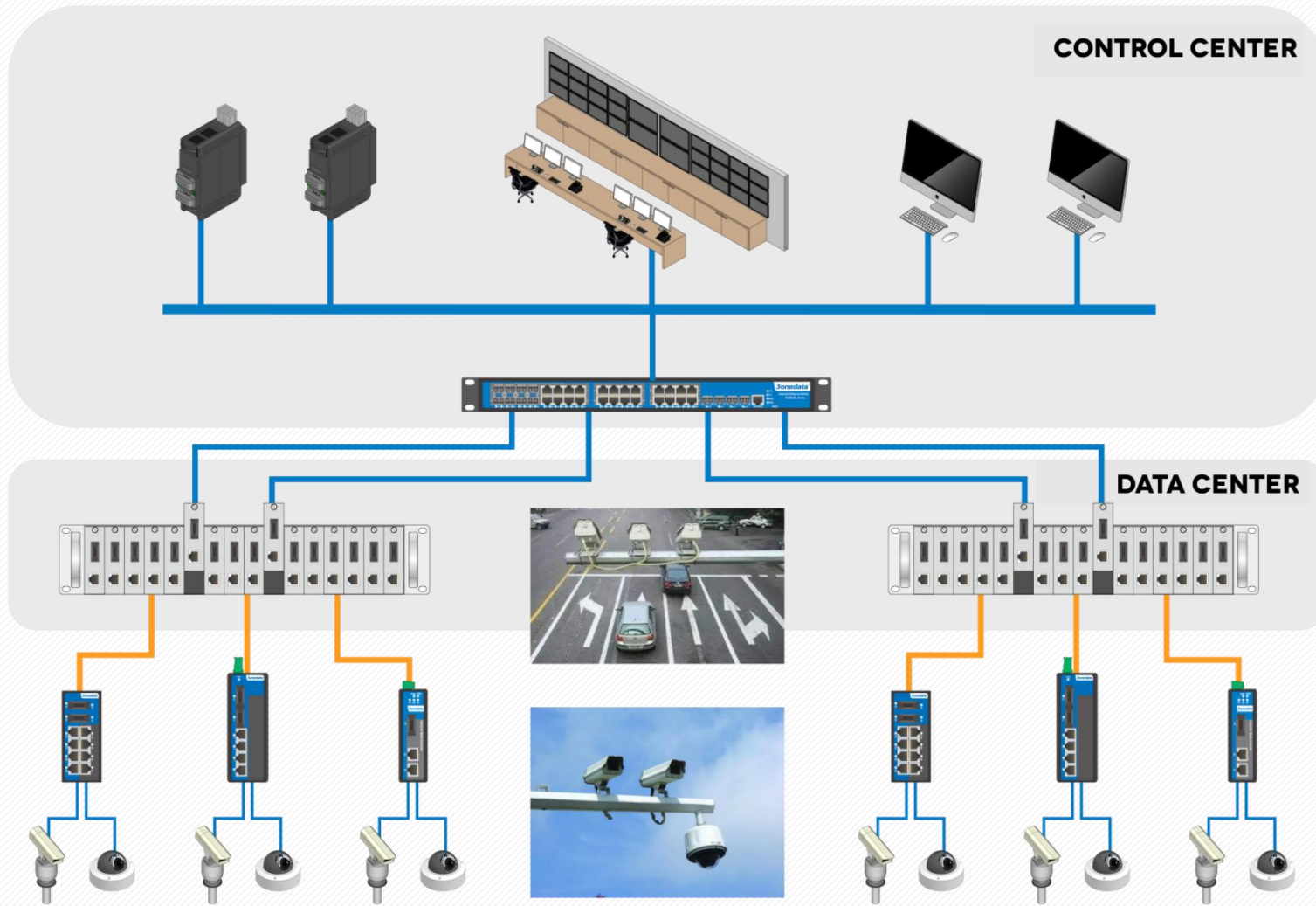
Recommend Product



RACK2100
2U Rack Mounting 18-Slot
Card Industrial Multi-service Rack



Crossroad Monitoring System



- Plug-n-play simplicity
- Low latency of data transmission
- Long transmission distance of fiber
- Wide bandwidth to realize bulk data transfer
- Stable and reliable network connection

Recommend Product



RACK2000B
2U Rack Mounting 16 Slot
Card/Desktop Media Converter Rack

Thank you !

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