

# Model3012 Series

## 10/100/1000M Ethernet Media Converter

### Features

1. Accord to IEEE802.1 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-SX/LX
2. MDI/MDI-X auto negotiation, 10M/100M/1000M auto negotiation
3. Supports full /half duplex, Point-to-point transparent transfer
4. Power External 5VDC input
5. Plug-and-play, easy to installation
6. Can insert to 2U 19", 14 slots Rackmount(power external)



### Introduction

Model3012, 10/100/1000Mbps adaptive Gigabit Ethernet fiber converter uses the switching technology to conduct media conversion, which meets the standards of IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab. This kind of media converter supports two types of media network connections: 10Base-T/100Base-TX/1000Base-T and 1000Base-SX/LX. Model3012 can conduct mutual conversion

between 10Base-T/100Base-TX/1000Base-T twisted pair electrical signals and 1000Base-SX/LX optical signals. This media converter extends the transmission distance of a network from 100m over copper wires to 20 Km. This media converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode, single-fiber single-mode, SC/ST/FC style fiber-optic connections.

### Specification

Standards: comply with IEEE802.1 10Base-T, IEEE802.3u 100Base-TX, IEEE 802.3ab 1000Base-TX, IEEE802.3z 1000Base-SX/LX standards

RJ45 port rate: 10/100/1000Mbps auto negotiation

Optic port rate: 1000Mbps

Working: Asynchronous, point to point, full/half duplex

Transfer distance: RJ45port: 1000m

Fiber optic: 20, 40, 60, 80, 100, 120km (SM),  
550m (MM) optional

RJ45 port cable: UTP 5E

Fiber connector: SC, ST, FC optional

Fiber optic cables: Single Mode: 8.3/125, 8.7/125, 9/125 or 10/125  $\mu$ m  
Multi-Mode: 50/125, 62.5/125  $\mu$ m

Wavelength: 850nm, 1310nm, 1550nm

#### Power

Power supply: External 5VDC input

Consumption: 4W

#### Environment

Operating temp: -10°C to 65°C

Storage temperature: -20 to 70°C

Operating humidity: 5% to 95% (no condensation)

#### Appearance

Dimensions: 94.0×71.0×26.0mm (Power External)

Shell: Iron

Color: White

Weight: 230g (power external)

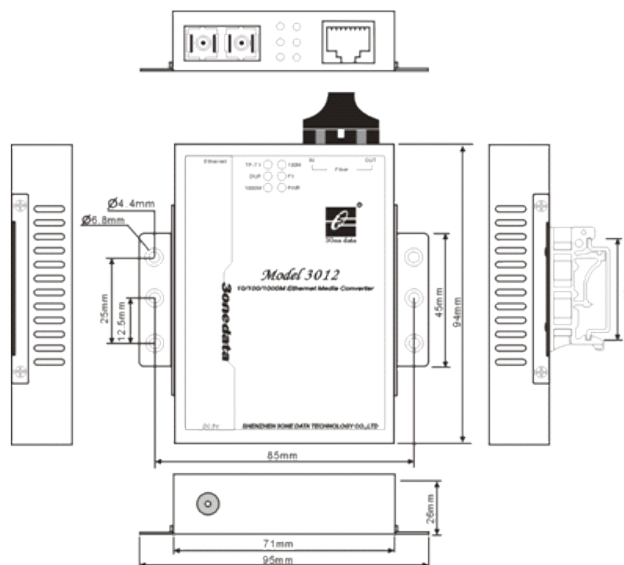
#### Warranty: 5 years

Approvals: FCC, CE, RoHS approval

### Packing List

1. Model3012 series Ethernet Media Converter×1
2. 5VDC power adapter ×1 (Media converter/5VDC, power external)
3. User manual ×1

## Dimension



## Ordering Information

Model NO.	Description
<b>Model3012-M</b>	multi-mode, 550m, 5VDC, SC, FC or ST, optional
<b>Model3012-S/20</b>	single-mode, 20Km, 5VDC, SC, FC or ST, optional
<b>Model3012-S/40</b>	single-mode, 40Km, 5VDC, SC, FC or ST, optional
<b>Model3012-S/60</b>	single-mode, 60Km, 5VDC, SC, FC or ST, optional
<b>Model3012-S/80</b>	single-mode, 80Km, 5VDC, SC, FC or ST, optional
<b>Model3012-S/100</b>	single-mode, 100Km, 5VDC, SC, FC or ST, optional
<b>Model3012-S/120</b>	single-mode, 120Km, 5VDC, SC, FC or ST, optional
<b>Model3012-SS/20</b>	single-mode, single fiber, 20Km, 5VDC, SC, FC or ST, optional
<b>Model3012-SS/40</b>	single-mode, single fiber, 40Km, 5VDC, SC, FC or ST, optional
<b>Model3012-SS/60</b>	single-mode, single fiber, 60Km, 5VDC, SC, FC or ST, optional
<b>Model3012-SS/80</b>	single-mode, single fiber, 80Km, 5VDC, SC, FC or ST, optional