



## RC-1001:

Web Smart 10/100Base-TX to 100Base-FX FE Media Converter

### Key Features

- Supports Web UI for management
- Supports OAM for remote management  
---TS-1000  
---IEEE802.3ah
- Supports Ingress/Egress Rate Limitation
- Supports per Port Counters
- Supports IEEE802.1Q VLAN
- Supports Q-in-Q (Double-Tag) VLAN
- Supports one 10/100Base-TX Fast Ethernet UTP port and one 100Base-FX Fast Ethernet Fiber port
- Supports 802.3x flow control for full-duplex ports and backpressure for half-duplex ports
- Supports comprehensive types of fiber with different distances and connections, including ST/SC/Bidi/LC and so on
- Supports auto mode on the TP port
- Supports independent LFP function
- Supports Jumbo Frame maximum packet size up to 9KB
- RoHS Compliance

### Overview

RC-1001 is designed to make conversion between 10/100Base-TX and 100Base-FX (ST/SC/LC) Fiber Ethernet. With web-based management, the network administrator can logon the switch to monitor, and configure. In addition, the converter implements the TS-1000, IEEE802.3ah, Rate Limit, VLAN. It is suitable for carrier fiber conversion application. The overall network flexibility is enhanced, and the network efficiency is also improved to accommodate and deliver high bandwidth applications.

### Technical Specifications

#### • Standards

IEEE802.3 10Base-T,  
IEEE802.3u 100Base-TX,  
IEEE802.3x full-duplex flow control,  
100Base-FX

#### • Cable

UTP: Cat. 5 cable and up to 100m

Fiber:

---100Base-FX(MM): 50/125, 62.5/125, or 100/140µm multi-mode

---100Base-SX(SM): 8.3/125, 8.7/125, 9/125 or 10/125µm single-mode

#### • Cable Connection Parameter

TP Cable Limitations: Cat. 5 and up to 100m

Fiber Cable Limitations:

**Cable:**

---50/125, 62.5/125 or 100/140µm multi-mode

---8.3/125, 8.7/125, 9/125 or 10/125µm single-mode

#### SC/ST/LC Converter Models

Multi-mode Half-duplex	412m
Multi-mode Full-duplex	2Km
Single-mode Half-duplex	412m
Single-mode Full-duplex	5/20/40/60/80/100Km

• **Data Transfer Rate:** 200Mbps/full-duplex

#### • Network Interface

TP Port	<b>10/100Base-TX</b> Auto-Negotiation Auto-MDIX Flow control for Full-Duplex Backpressure for Half-Duplex
Fiber Port	<b>100Base-FX (ST/SC/LC)</b> Link partner must be forced 100Mbps (100HDX/100FDX)

#### • LED Indicator

LED	Color	Function
POWER	Green	Lit when +5V power is coming up
FX LINK/ACT	Green	Lit when fiber connection is good Blinks when any traffic is present
TP LINK/ACT	Green	Lit when TP connection is good Blinks when any traffic is present
TP 10/100	Amber	Amber: Lit when 100Base-TX is active Off: When 10Base-T is active

**• Power**
**Requirement:** 1A@+5VDC above

**Consumption:** 1.5Watts

**• Ambient Temperature:** 0 ~ 50°C

**• Humidity:** 5% ~ 90%

**• Dimensions:** 26.2(H) x 70.3(W) x 94(D) mm

**• Certification:** Comply with FCC Part 15 Class A & CE Mark Approval

**Prdering Information**

Carton Dimensions (mm)	pcs/Carton	N.W (KG)	G.W (KG)
602x447x348	40	24	25

**Ordering Information**

<b>RC-1001ST</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, ST Multi-Mode
<b>RC-1001SC</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, SC Multi-Mode
<b>RC-1001SC.S05</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, SC Single-Mode 5km
<b>RC-1001SC.S20</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, SC Single-Mode 20km
<b>RC-1001SC.S40</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, SC Single-Mode 40km
<b>RC-1001SC.S60</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, SC Single-Mode 60km
<b>RC-1001SC.S80</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, SC Single-Mode 80km
<b>RC-1001SC.SA0</b>	Web Smart 10/100Base-TX to 100Base-FX FE Media Converter, SC Single-Mode 100km
<b>RC-1001BS3.S20</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, Bidi-SC 20km, 1310nm
<b>RC-1001BS3.S40</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, Bidi-SC 40km, 1310nm
<b>RC-1001BS3.S60</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, Bidi-SC 60km, 1310nm
<b>RC-1001BS5.S20</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, Bidi-SC 20km, 1550nm
<b>RC-1001BS5.S40</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, Bidi-SC 40km, 1550nm
<b>RC-1001BS5.S60</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, Bidi-SC 60km, 1550nm
<b>RC-1001LC</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, LC Multi-Mode
<b>RC-1001LC.S20</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, LC Single-Mode 20km
<b>RC-1001LC.S40</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, LC Single-Mode 40km
<b>RC-1001LC.S60</b>	Web Smart 10/100Base-TX to 100Base-FXFE Media Converter, LC Single-Mode 60km

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