RUBYTECH ®
Networking & Communications

RC-1201

RC-1201:

Web Smart 10/100/1000Base-T to 1000Base-X GbE 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 10/100/1000Base-T Gigabit Ethernet UTP port and one 1000Base-SX / LX Gigabit 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 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-1201 is designed to make conversion between 10/100/1000Base-TX and 1000Base-SX/LX (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,
  IEEE802.3z/ab 1000Base-T,
  IEEE802.3x full-duplex flow control,
  1000Base-SX/LX
- **Cable**
  UTP: Cat. 5 cable and up to 100m
  Fiber:
  ---1000SX: 50/125, 62.5/125, or 100/140μm multi-mode
  ---1000LX: 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:

		Multi-Mode Fiber 62.5/125μm		Multi-Mode Fiber 50/125μm	
		Bandwidth MHz-Km	Distance	Bandwidth MHz-Km	Distance
1000SX 850nm		160	220m	400	500m
		200	275m	500	550m
1000LX 1310nm/ 1550nm		Single-Mode Fiber 9/125μm			
		Single-Mode transceiver 1310nm: 10/30Km			
		Single-Mode transceiver 1550nm: 50Km			

- **Data Transfer Rate:** 2000Mbps/full-duplex
- **Network Interface:**

TP Port	**10/100Base-TX**
	Auto-Negotiation
	Auto-MDIX
	Flow control for Full-Duplex
	Backpressure for Half-Duplex
TP Port	**1000Base-T**
	Auto-Negotiation mode
	Auto-MDIX only for Auto-Negotiation
	Flow control for Full-Duplex only
Fiber Port	**1000Base-SX/LX (SC/LC)**
	with NWay flow control
	Link partner must be 1000FDX with NWay flow control

Media Converter Solutions MMS *(vertical text in left margin)*

• 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 10/100/1000	Green Amber	Green: Lit when 1000Base-T is active Amber: Lit when 100Base-TX is active Off: When 10Base-T is active

• Power
 ---**Requirement:** 1A@+5VDC above
 ---**Consumption:** 2.0Watts
• Ambient Temperature: 0 ~ 50℃
• 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	25	26

Ordering Information

RC-1201SC	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, SC Multi-Mode
RC-1201SC.S10	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, SC Single-Mode 10km
RC-1201SC.S30	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, SC Single-Mode 30km
RC-1201SC.S50	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, SC Single-Mode 50km
RC-1201BS5.S20	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, Bidi SC Single-Mode 20km, 1550nm
RC-1201BS3.S20	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, Bidi SC Single-Mode 20km, 1310nm
RC-1201LC	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, LC Multi-Mode
RC-1201LC.S10	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, LC Single-Mode 10km
RC-1201LC.S30	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, LC Single-Mode 30km
RC-1201LC.S50	Web Smart 10/100/1000Base-T to 1000Base-X GbE Media Converter, LC Single-Mode 50km