


**RC-2201A:**

10/100/1000M TP to 1000SX/LX/ZX Managed Gigabit Ethernet Converter

**Key Features**

- Supports one 10/100/1000Base-T Gigabit Ethernet UTP port and one 1000Base-SX / LX Gigabit Ethernet Fiber port
- Supports comprehensive types of fiber with different distances and connections, including SC/Bidi/LC/VF45 and so on
- Supports auto shutdown when temperature reaches too high
- Supports external loop back capability
- Supports 802.3x flow control for full-duplex ports and backpressure for half-duplex ports
- Supports Broadcast suppression
- Supports Lower Network System Broadcast Storm
- Programmable max. Ethernet frame length of range from 1522 to 1536 bytes
- Supports Spanning tree (802.1D) and RSTP (802.1w)
- Supports Denial forwarding MAC address and Allowed forwarding MAC address
- Supports web-based and text-based management user interface
- Supports SMTP
- Supports SNMP and RMON with group 1,2,3,9
  - Supports MIB
  - Supports SNMP enabled/disabled
  - Supports up to 4 trap hosts
- Supports TFTP for upgrade
- Supports DHCP client
- Supports E-mail client (SMTP RFC 821) and Mobile Phone short message (SMS) up to six staff for sending Traps and Alarm message
- RoHS Compliance

**Overview**

The Converter RC2201A is designed to make conversion between 10/100/1000 Base-TX and 1000Base-FX Fast Ethernet. With SNMP agent, web-based management and Telnet text-based manual driven

**Technical Specifications**
**Standards Compliance:**

- IEEE 802.3 10Base-T specification
- IEEE 802.3u 100Base-TX specification
- IEEE 802.3ab 1000Base-T specification
- IEEE 802.3z 1000Base-X specification
- IEEE 802.3x full-duplex flow control specification
- 1000Base-SX/1000Base-LX Gigabit Ethernet Fiber specification
- IEEE 802.1D Spanning-Tree-Protocol
- IEEE 802.1w Rapid Spanning-Tree-Protocol
- SNMP
- RMON standards

**Protocol Support:**

- UDP RFC 768
- TFTP RFC 783
- IP RFC 791
- ICMP RFC 792
- TCP RFC 793
- ARP RFC 826
- Telnet RFC 854
- NTP RFC 1305
- HTTP RFC 2068
- DHCP RFC 2131 / RFC 2132
- SMTP RFC 821

**Network Management:**

- RFC 1213 MIB (MIB-II)
- System MIB
- Interface MIB
- Address Translation MIB
- IP MIB
- ICMP MIB
- TCP MIB
- UDP MIB
- SNMP MIB
- RFC 1757 RMON MIB
- Statistics Group 1
- History Group 2
- Alarm Group 3
- Event Group 9
- RFC 1643 Ethernet MIB
- Enterprise MIB

**Maximum Switching Ports:**

- The maximum service port capability:
  - 2 Gigabit Ethernet ports

management, the network administrator can logon the remotely converter to monitor, configure and control the activity of each port. In addition, the converter will be shut down if the cooling system fails and the temperature is too high. The overall network management is enhanced, and the network efficiency is also improved to accommodate and deliver high bandwidth applications.

**• Network Interface:**
**10Base-T/100Base-TX:**

- Connectors: RJ-45
- Auto-Negotiation
- Auto-MDIX
- Transmission: Full/Half-Duplex
- Max. Cable Length: up to 100m

**1000Base-T:**

- Connectors: RJ-45
- Auto-Negotiation
- Auto-MDIX
- Transmission: Full-Duplex only
- Max. Cable Length: up to 100m

**1000Base-SX (Multi mode):**

- Connectors: SC / VF-45 / LC
- Auto-Negotiation
- Transmission: Full-Duplex only
- Max. Cable Length: 220m for 50/125 $\mu$
- Wavelength: 850nm

**1000Base-LX (Single mode):**

- Connectors: SC / Bidi-SC
- Auto-Negotiation
- Transmission: Full-Duplex
- Max. Cable Length: 50km for 9/125 $\mu$
- Wavelength: 1310nm or 1550nm

**• Emission and Safety Regulations:**

Complies with FCC Part 15 Class A &amp; CE Mark Approval

**LED Description**

LED		Function
POWER		Power status
CPU/LOOP		Loop-back Testing
Fiber Port	LNK/ACT	Port Link and Activity status
UTP Ports	LNK 1000	Port Link and Speed status
	ACT	Port Activity status
	FDX/COL	Port Duplex and Collision status

**• Power Requirement :** 2.5A(or above)@+5VDC

**• Consumption:**

- 13W with Battery
- 12W without Battery

**• Ambient Temperature :** 0 to 50°C

**• Humidity:** 5% to 95%

**• Dimensions:** 44(H) x 96(W) x 141(D) mm

**• Certification:** FCC Part 15 Class A, CE Mark

**Ordering Information**

Model	Description
RC-2201ASC	10/100/1000Base-T to 1000Base-SX Converter, MM SC
RC-2201ASC.S10	10/100/1000Base-T to 1000Base-LX Converter, SM SC 10km
RC-2201ASC.S30	10/100/1000Base-T to 1000Base-LX Converter, SM SC 30km
RC-2201ASC.S50	10/100/1000Base-T to 1000Base-LX Converter, SM SC 50km
RC-2201ABS5.S20	10/100/1000Base-T to 1000Base-LX Converter, SM Bidi SC 20km, 1550nm
RC-2201ABS3.S20	10/100/1000Base-T to 1000Base-LX Converter, SM Bidi SC 20km, 1310nm