



CR-2010

**CR-2010**

24-Port 100M SEP-SC Fiber + 2 Gigabit SEP-SC Fiber/TP(Fixed) Dual Media Port Intelligent Ethernet Switch

**Key Features**

- Supports in-band/out-of-band management
- Supports backpressure for half duplex and 802.3x flow control for full duplex
- Supports 2 FE ports on CPU board for management network
- Supports head of line (HOL) blocking prevention
- Max switching capacity: 8.8G non-blocking at wire speed
- Supports chassis ID for location alignment
- Supports management through any Ethernet port and RS-232
- Supports short message and email for trap and alarm
- Supports per port external loopback capability
- Supports port mirroring function
- Support MIB II, Bridge MIB, Ethernet MIB, Enterprise MIB, RMON I MIB
- Supports port-based/802.1v and 802.1q tagged VLAN, up to 256 active VLANs
- Supports IP multicast with IGMP snooping
- Supports Ethernet multicasting and broadcasting and flooding storm control
- Supports max of 50 per port allowed MAC address entries and 50 global denied MAC address entries for port security
- Supports max. 32 entries of illegal table
- Supports Auto-ping function with adjustable interval
- Supports 802.1p CoS with 2 level priority
- Supports detection of temp. x 2, voltage, fans speed x 3
- Supports 3 fans: two embedded in power and one driven by two power
- Supports dual redundant pluggable power with loading balance

**Technical Specifications**

- **Performance:**
  - Bandwidth: 8.8Gbps Switching Capacity
  - VLAN: 256 active
  - IP multicast table entries: 2k
  - Supports Packet length up to max of 1536 bytes long
  - Supports 10k MAC address table
- **Standards Compliance:**
  - IEEE 802.3u /z/x /ab /ad
  - IEEE 802.1d /p/q /v /x/advanced 802.1x
  - 100Base-FX Fast Ethernet Fiber Specification
  - 1000Base-SX/1000Base-LX Gigabit Ethernet Fiber specification
  - SNMP
  - RMON
- **Protocol Support:**
  - 802.1d/1w/1s STP
  - 802.3ad LACP
  - 802.1q with GVRP/GMRP/GARP
  - 802.1p priority queue
  - IGMP snooping
  - ARP, RARP, RIP, DHCP server/client/relay
  - Telnet, BootP, TFTP, FTP, HTTPD, NTP
- **Network Management:**
  - RFC 1213 MIB (MIB-II)
    - 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 1493 Bridge MIB
  - RFC 1643 Ethernet MIB
  - Enterprise MIB
- **Maximum Switching Ports:**
  - The maximum service port capability:
    - 24 Fast Ethernet ports
    - 2 Gigabit Ethernet ports

Intelligent Switch

**Overview**

CR-2010 implements 24 100Mbps SEP /SC fiber ports and 2 Giga fiber (SEP/ SC)/TP(Fixed) dual media ports, specifically designed for MTU (Multi-Tenant Unit) application.

It's fully compliant with the standards of IEEE 802.3/u/x/z/ab. With SNMP agent and web-based management, the network administrator can log on the switch to monitor, and configure. In addition, CR-2010 abounds with functions, including QoS (Quality of Service), tag-/port-based VLAN, Port Trunking, Bandwidth Control, Port Security, Fail-over, RMON and IGMP snooping capability via the intelligent software. The overall network management is enhanced and the network efficiency is also improved to accommodate high bandwidth applications with security.

**• Network Interface:**

**1000Base-T:**

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

**100Base-FX (Multi mode):**

- Connectors: SC
- Transmission: Full/Half-Duplex
- Max. Cable Length: up to 2km for 50/125μ
- Wavelength: 1310nm

**100Base-FX (Single mode):**

- Connectors: SC / Bidi-SC
- Transmission: Full/Half-Duplex
- Max. Cable Length: 100km for 9/125μ
- Wavelength: 1310nm or 1550nm

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

- Connectors: SC
- Auto-Negotiation
- Transmission: Full-Duplex only
- Max. Cable Length: 220m for 50/125μ
- Wavelength: 850nm

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

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

**• Led Indicate**

| LED          |                   | Function                       |
|--------------|-------------------|--------------------------------|
| CPU Module   | Power             | Power status                   |
|              | LNK/ACT (TPP1-P2) | Link and Activity status       |
|              | CPU run           | CPU Activity status            |
| Fiber Ports  | FE Fiber: LNK/ACT | Port Link and Activity status  |
|              | Gbe Fiber: LNK/AC | TPort Link and Activity status |
| Gbe TP Ports | LNK/ACT           | Port Link and Activity status  |

**• Power**

- Requirement
  - AC Power: 90 ~ 300VAC
  - DC Power: -36~-72VDC with two independent power cords
  - Power Consumption: 50W

**• Ambient Temperature: 0 ~ 50°C**

**• Humidity: 5 ~ 90%**

**• Dimensions: 442(W) x 347.9(D) x 88(H) mm**  
(Standard 19" rackmount with 2U height)

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

**Ordering Information**

| Model Numbers      |  |
|--------------------|--|
| <b>CR-2010SP</b>   | 24-Port 100M SEP-SC+2 Gigabit TP/SFP Dual Media Ports Managed Switch (without Power Module)  |
| <b>CR-2010GB</b>   | 24-Port 100M SEP-SC+2 Gigabit TP/GBIC Dual Media Ports Managed Switch (without Power Module) |
| <b>CR-2010-P01</b> | 1U AC Power Module   |
| <b>CR-2010-P02</b> | 1U DC Power Module   |

| Optional SEP Fiber Module for 100M Port |  |
|---|--|
| <b>FM-SEP.SC</b>                        | SEP, FE SC Multi-Mode Fiber Module 1310nm                    |
| <b>FM-SEP.SC.S05</b>                    | SEP, FE SC Single-Mode 5Km Fiber Module 1310nm               |
| <b>FM-SEP.SC.S20</b>                    | SEP, FE SC Single-Mode 20Km Fiber Module 1310nm              |
| <b>FM-SEP.SC.S40</b>                    | SEP, FE SC Single-Mode 40Km Fiber Module 1310nm              |
| <b>FM-SEP.SC.S60</b>                    | SEP, FE SC Single-Mode 60Km Fiber Module 1310nm              |
| <b>FM-SEP.BS5.S20</b>                   | SEP, FE BiDi SC Single-Mode 20Km Fiber Module 1550nm, Type 1 |
| <b>FM-SEP.BS3.S20</b>                   | SEP, FE BiDi SC Single-Mode 20Km Fiber Module 1310nm, Type 2 |

| Optional SFP Fiber Module for Gigabit Port |  |
|--|--|
| <b>SFP.LC</b>                              | 1000Base-SX GE SFP Multi-Mode Fiber Module 850nm                   |
| <b>SFP.LC.S10</b>                          | 1000Base-LX GE SFP Single-Mode 10Km Fiber Module 1310nm            |
| <b>SFP.LC.S30</b>                          | 1000Base-LX GE SFP Single-Mode 30Km Fiber Module 1310nm            |
| <b>SFP.L5.S50</b>                          | 1000Base-LX GE SFP Single-Mode 50Km Fiber Module 1550nm            |
| <b>SFP.BL5.S10</b>                         | 1000Base-LX GE SFP BiDi LC 10Km Module Single Fiber 1550nm, Type 1 |
| <b>SFP.BL3.S10</b>                         | 1000Base-LX GE SFP BiDi LC 10Km Module Single Fiber 1310nm, Type 2 |
| <b>SFP.BL5.S20</b>                         | 1000Base-LX GE SFP BiDi LC 20Km Module Single Fiber 1550nm, Type 1 |
| <b>SFP.BL3.S20</b>                         | 1000Base-LX GE SFP BiDi LC 20Km Module Single Fiber 1310nm, Type 2 |

| Optional GBIC Fiber Module for Gigabit Port |   |
|---|---|
| <b>GBIC.SC</b>                              | 1000Base-SX GE GBIC MM Fiber Module MM 850nm                        |
| <b>GBIC.SC.S10</b>                          | 1000Base-LX GE GBIC 10Km Fiber Module SM 1310nm                     |
| <b>GBIC.SC.S30</b>                          | 1000Base-LX GE GBIC 30Km Fiber Module SM 1310nm                     |
| <b>GBIC.SC.S50</b>                          | 1000Base-LX GE GBIC 50Km Fiber Module SM 1550nm                     |
| <b>GBIC.BS5.S10</b>                         | 1000Base-LX GE GBIC BiDi SC 10Km Module Single Fiber 1550nm, Type 1 |
| <b>GBIC.BS3.S10</b>                         | 1000Base-LX GE GBIC BiDi SC 10Km Module Single Fiber 1310nm, Type 2 |
| <b>GBIC.BS5.S20</b>                         | 1000Base-LX GE GBIC BiDi SC 20Km Module Single Fiber 1550nm, Type 1 |
| <b>GBIC.BS3.S20</b>                         | 1000Base-LX GE GBIC BiDi SC 20Km Module Single Fiber 1310nm, Type 2 |

**Note:**

We recommend the SFP transceiver from the following vendors:

1. Ruby Tech Corporation
2. Agilent Technologies
3. AVAGO Technologies
4. Finisar Corporation

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