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# Ethernet Switch CS2010

## Product Datasheet

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VERSION1

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*Partnership for the Next Generation Broadband CPE*

[www.cigtech.com](http://www.cigtech.com)

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## ■ Overview

The CIG CS2010-28T-AC/CS2010-52T-AC Switches are next-generation energy-saving Gigabit Ethernet switch that provides 24 or 48 GE access ports and 4\*10GE uplink ports. The switches are ideal for internet Service Providers (ISPs) and Multiple System Operators (MSOs) to provide home users with triple-play services with up to a Gigabit of bandwidth. It is also an ideal Gigabit access switch for SMB, enterprise, and campus networks.

CS2010 series switches is packed with feature that bring high availability, comprehensive security, robust multicast control, and advance QoS to the network edge, while maintaining simple management. ISPs can expand their services from home to business users by providing a more reliable and resilient network, L2 VPNs, and advanced OAM (Operations, Administration, and Maintenance) functions to ensure service-level agreements.



CS2010-28T-AC



CS2010-52T-AC

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## ■ Key Features and Benefits

### 1. DataPerformance and Scalability

CS2010 series switches are high-performance Gigabit Ethernet Layer 2+ managed switches with 56/104 Gbps switching capacity. The switches deliver wire-speed switching performance on all Gigabit ports, taking full advantage of existing high-performance Gigabit CPEs, PCs, 11n/ac Wi-Fi APs etc, significantly improving the responsiveness of applications and file transfer times.

The four 10G SFP+ ports provide uplink flexibility, allowing the insertion of fiber or copper gigabit transceivers, to create up to 40Gbps high-speed uplinks to service provider, corporate, campus networks, reducing bottlenecks and increasing the performance of the access network.

### 2. Reliability and Energy Efficiency

The design of the CS2010 series switches incorporates high energy efficiency in order to reduce the impact on the environment. The Green Ethernet power-saving features significantly reduce power consumption.

### 3. High-performance IPv4 / IPv6 service capabilities

CS2010 series switches comes with IPv4 / IPv6 dual stack platform that base on hardware, which has a vast of IPv4/IPv6 L3 routing protocols, multicast technologies and policy routing mechanisms, to provide perfect IPv4 / IPv6 solutions for users.

### 4. Excellent management

CS2010 series switches supply varieties of Management Port, such as Console port, out-of-band Management Port. CS2010 series switches support SNMPv1/v2/v3 (Simple Network Management Protocol), CLI command line, Web Management, Telnet and so on. Varieties of Management interface change equipment control to easy .And support SSH2.0 and other encryption methods, to make management more secure.

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## ■ Specification

Item	CS2010-28T-AC	CS2010-52T-AC
Rack Space	19"-1 RU	
Dimension (W x D x H)	440×220×43.6	
Weight	2.8KG	3.2KG
FAN	Fixed 1 FAN	Fixed 1 FAN
Input Voltage	100V ~ 240V A.C , 50/60Hz	
Max System Power Consumption (Watts)	30W	60W
Operating Temperature	0°C ~ 45°C	
Operating Humidity (non-condensing)	5% ~ 95%	
Fixed Ports	24* 1G GE+4*10G SFP+	48* 1G GE+4*10G SFP+
Switching capacity	56 Gpbs	104 Gpbs
Forwarding Rate	41.6 Mpps	77.4 Mpps
<b>Layer 2 Features</b>		
Virtual Switch	Support	
Spanning Tree	IEEE 802.1D	
	IEEE 802.1s	
	IEEE 802.1w	
	PVRST +	
	Support for Portfast, Root Guard, BPDU Guard, Loop Guard)	

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VLAN	Port and Protocol based VLAN	
	MAC based VLAN	
	Subnet based VLAN	
	Port based VLAN	
	GVRP/GARP/GMRP	
Port Control	VLAN Stacking	
	Disable MAC learning	
	Jumbo Frame	
	Flow control	
LLDP (v1, v2), LLDP MED		
Strom Control	Broadcast and Multicast	
I2 Mcast	IGMP Snooping v1/v2/v3	
	IGMP filtering	
	MLD Snooping Mechanism	
802.1ad Provider Bridging	C-VLAN Bridge	
	S-VLAN Bridge	
	Provider Edge Bridge	
<b>Layer 3 Features</b>		
Unicast Routing	Dual IP Stack Support	
	RIP v1/v2	
	OSPF v2/v3	
	OSPF-TE Extensions	
	OSPF Virtual Routing	
	BGP4	
Multicast Routing	DVMRP	
	PIM-DM/SM	
	IGMP v2/v3 proxy	
	IGMP v2/v3	

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NAT	Support	
Redundancy	VRRP	
ARP	Support ARP	
<b>QoS Features</b>		
Scheduling for priority queue	WRR	
	Strict Priority(SP)	
	WFQ	
	Hybrid (WFQ+ SP)	
	Hybrid (WRR +SP)	
COS	Port based priority	
	MAC Address based priority	
	802.1p based COS	
	IP TOS/IP Precedence based COS	
	IP TOS/DSCP based COS	
	TCP/UDP Port based COS	
Rate Limiting	Ingress/Egress	
	Per port	
Diffserv	Support Diffserv	
<b>Security Features</b>		
Port Based Network Access Control (802.1x)	Port-Based authentication	
	Port based and MAC based authentication	
	Supplicant Support	
	Support either Local Authentication Server or remote authentication server	
	EAP pass-through	
ACL	L2 ACL Rules per system	
	L3 ACL Rules per system	
	Applied Interface	

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RADIUS authentication		
TACACS+ Authentication		
User name password authentication	Local Authentication	
	Remote Authentication via RADIUS/TACACS+	
<b>Management Features</b>		
Web Based Management		
Telnet/SSH/Console CLI		
Telnet Client	IPv4/IPv6	
SSH Client	RADIUS client – IPv4 and IPv6; TACACS+ client – IPv4 and IPv6; Support for Authentication functionality	
Software image upgrade	TFTP/SFTP	
SNMP	v1/v2c/v3	
RMON	RMONv1 and RMONv2	
Mirroring	Port-based, ACL-based, MAC Filter-based VLAN-based	
Digital Optical Monitoring (DOM) and SFP monitoring	Support	
BOOTP	BOOTP Server	
DHCP(IPv4)	Client, Server, Relay agent for IPv4 Option 82 and RAIO Sub Option 2	

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DHCP(IPv6)	Stateless DHCP server and client Service for IPv6 for specific options assignment DHCPv6 relay agent with prefix delegation	
IPv6 Address Auto Configuration	Support	
System Logs	Remote server to each severity	
Email Alerts	SMTP	
DNS Client IPv4/v6	Support	
SNTP Client	Support	

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