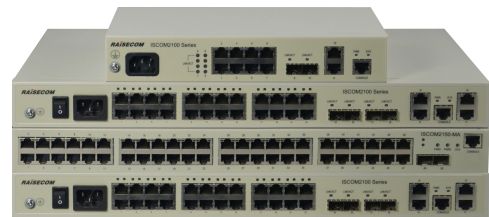


ISCOM2100 FE Series Access Ethernet Switch

Overview

The **ISCOM2100 series** carrier-grade MAN Ethernet access switch is a network-manageable Layer 2 Ethernet switch. Adopting the high-performance ASIC chip, it can implement all-line speed switching. It adopts a standard chassis and various interfaces with carrier-grade stability and reliability, such as eight/sixteen/twenty-four 10/100BASE-T Ethernet electrical interfaces. It provides 2/4 GE COMBO (10/100/1000Base-T or 100/1000Base-X) interfaces. In addition, it provides rich QoS policies, ACL, and protection switching mechanisms.

The ISCOM2100, oriented for carrier-grade corridor access, is suitable for the campus, enterprises, and residential areas. It can aggregate services from the corridor of a broadband residential area and services from a small network.



ISCOM2100

Features

Complete access

- Line-speed forwarding on all interfaces, non-blocking design
- The uplink fiber supports 80-km remote distance transmission, able to access the trunk MAN.
- IEEE 802.1x and interface-based user authentication
- Interface isolation and rate limiting

Rich security guarantees

- Various access control and user authentication mechanisms, including ACL, dynamic ARP inspection, RADIUS, TACACS+, and IP Source Guard, effectively enhancing security of network and the NE
- Broadcast storm and loop detection, able to keep network stable
- Lightning protection on power supply and all Ethernet electrical interfaces to protect the customer's investment on hardware

Easy management and maintenance

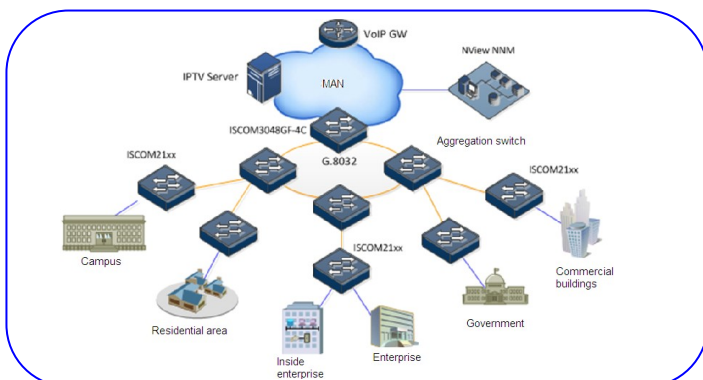
- Self-adaptive to the straight-through cable and crossover cable
- Cluster management for centralizedly managing IP addresses, thus saving IP addresses
- Various management modes through Console and SNMP interfaces
- OAM and FE protection

Carrier-grade reliable design

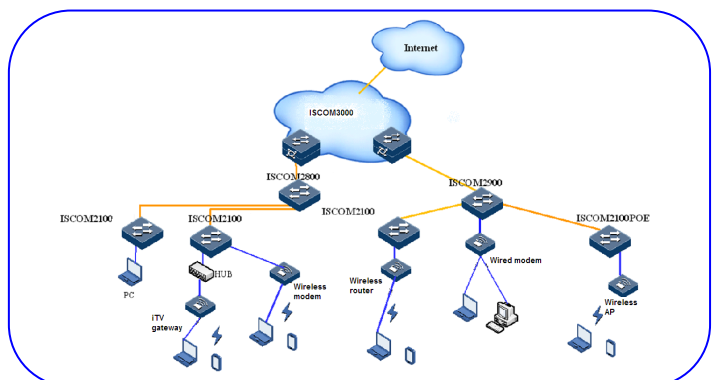
- STP, RSTP, and MSTP, provide link backup, increase error tolerance, and guarantee network stability
- Layer 2 and Layer 3 SLA
- Ethernet protection, able to reach the carrier-grade standard of less than 50ms service switching time
- Silent design without fans

Typical networking

MAN



Buildings and campus



Technical specifications

Model	ISCOM2110EA-MA	ISCOM2118EA-MA	ISCOM2128EA-MA	ISCOM2126F-MA	ISCOM2150-MA
Interfaces	Uplink: 2*GE combo Downlink: 8*FE RJ45	Uplink: 2*GE combo Downlink: 16*FE RJ45	Uplink: 4*GE combo Downlink: 24*FE RJ45	Uplink: 4*GE combo Downlink: 24*FX SFP	Uplink: 2*GE SFP Downlink:48*FE RJ45
Switching capacity (G)	5.6	7.2	12.8		13.6
Packet forwarding rate (Mpps)	4.17	5.36	9.52		10.12
Dimensions (mm)	260 (L) × 130 (D) × 43.6 (H)	320 (L) × 200 (D) × 43.6 (H)	440 (L) × 220 (D) × 43.6 (H)		440 (L) × 300 (D) × 43.6 (H)
Weight (kg)	< 1.2	< 1.9	< 3.0		
Power consumption (W)	< 10	< 12	< 14	< 30	< 22
Basic features	Maximum framelength of 9 Kbytes, supporting jumbo frame 16K MAC addresses 4094 VLANs, supporting QinQ and VLAN mapping Loop detection Broadcast storm control Port mirroring				
OAM	IEEE 802.3ah OAM Standard OAM discovery, link monitoring, remote loopback, fault indication, and performance statistics MIB variable acquisition Event processing OAM active mode and passive mode Extended OAM protocols				
DHCP	DHCP Client DHCP Relay DHCP Snooping DHCP Option82				
QoS	Traffic classification (IP, DSCP, and CoS) and traffic policy (rate limiting, redirection, and remarking) Interface-based and VLAN-based rate limiting Bandwidth guarantee				
Multicast	IGMP Snooping IGMP MVR IGMP filtering IGMP Proxy				
Security	Secure MAC ACL RADIUS, TACACS+, and IEEE 802.1x authentication IP Source Guard				
Service protection and monitoring	Interface protection LACP Ethernet ring STP, RSTP, and MSTP Layer 2 and Layer 3 SLA				
System Management	RMON Cluster management SNMP, system log, alarm management, and performance statistics				
Operating Temperature	0°C-50°C				
Relative humidity	10%-90% (non-condensing)				
Lightning protection level	Service interface: 6 kV in common mode Power interface: 6 kV in common mode and 6 kV in differential mode				