



ISCOM6810-XC08

The ISCOM6810-XC08 is a low-capacity enhanced XPON cartridge OLT launched by Raisecom Technology Co., Ltd. Its power supplies and fans adopt modular design, so they are easy to be installed and deployed. It has strong GPON/XG-PON/XGS-PON access capabilities, supports rich Layer 3 functions, and supports Web management for small and micro customers, thus meeting the needs of low-density and long-distance optical access.

Highlights >>

High integrity and flexible networking

- The 1U height, pluggable power supplies and fans, and modular design facilitates installation, deployment, and part replacement.
- Support 8 GPON, XG(S) PON Combo interfaces, two 100GE optical interfaces, and four 10GE optical interfaces. Support wire-speed forwarding.
- Provide users with access to broadband, voice, IPTV and other services, thus meeting comprehensive access applications in various industries.
- Broadcast, multicast, and unicast transmission

Carrier-grade reliability

- Support 1+1 power supply protection.
- Support STP/RSTP/MSTP.
- Support Type B/C/D protection, with switching performance complying with carrier-grade requirements.
- Support the Ethernet ring network protocols, with the switching time less than or equal to 50ms.

Rich features

- IPv4/IPv6 dual-stack and complete dynamic routing protocols
- IGMP/MLD Snooping, Proxy, MVR, and controllable multicast
- Complete QoS functions, including DBA, superior control, multiple traffic classification mechanisms, multi-queue scheduling, and other technologies
- Complete ACL functions, including L2, L3, L4 and user-defined ACLs
- L2CP protocol for transparent data transmission

Easy OAM

ISCOM6810-XC08-AC/D



ISCOM6810-XC08-AC_DC



ISCOM6810-XC08-DC/D



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- Support multiple management and maintenance modes, such as CLI, Telnet, RCVIEW, and Web, to facilitate device management.
- Support RMON and Syslog for daily diagnosis and maintenance of the network.
- Complete ACL functions, including L2, L3, L4, and user-defined ACLs.
- Support IGMP/MLD Snooping, Proxy, MVR, and controllable multicast.
- Support Ipv4/Ipv6 dual stacks and complete dynamic routing protocols.

Green and energy-saving design

- Be designed with low energy consumption, with the overall power consumption is less than 101 W.
- The fan can be intelligently adjusted according to the temperature, improving the fan life, reducing wind noise, and implementing energy saving.

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Application >>

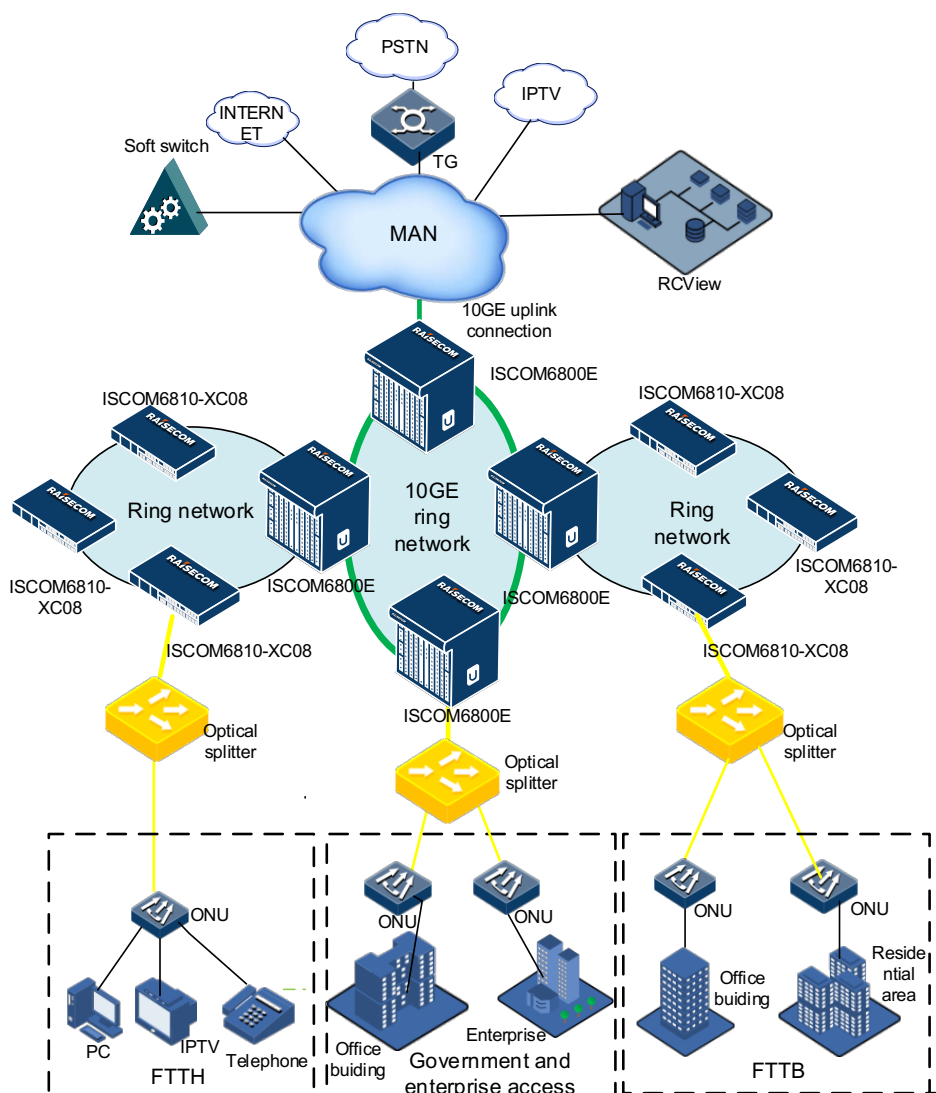


Figure 1 Ring network with the ISCOM6810-XC08 and ISCOM6800E

In this application scenario, the ISCOM6810-XC08 devices can form an Ethernet ring network with the Raisecom ISCOM6800E to provide customers with reliable access services. At the same time, the ISCOM6800E devices at each regional aggregation point can form a 10G Ethernet ring network (the switching time is less than 50ms), which not only provides the function of ring network protection, but also saves backbone optical fiber resources and meets customers' needs for high-bandwidth transmission.

The ISCOM6810-XC08 is suitable for carriers and ISP customers in low-density user areas, such as villas, suburbs, towns, and rural areas, and provides various typical services for accessing broadband, IPTV, leased line, and video monitoring.

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Key features >>

MAC	- Support static, dynamic, and blackhole MAC addresses. - Support suppression of MAC address flapping. - Support port security MAC and MAC address limit. 32K mac address table
VLAN	- Support VLAN based on MAC address, protocol, IP subnet, or interface. - Support the Access, Trunk, and Hybrid modes. - Support basic QinQ, selective QinQ, and VLAN mapping (1:1 and N:1). 4k VLAN table
Multicast	- Support IGMP v1/v2/v3, IGMP v1/v2/v3 Snooping, and MLD Snooping. - Support immediate leave based on interface or user. - Support IGMP MVR. - Support IGMP/MLD proxy.
QOS/ACL	- Support rate limiting in the ingress or egress direction of the interface. Support HCAR. - Each interface supports 8 queues. Support priority mapping. - Support interface/port shaping, traffic classification, and traffic policy. - Support SP, WRR, DRR, SP+WRR, and SP+DRR queue scheduling modes. - Support congestion control WRED.
Reliability	- Support manual aggregation and static LACP. - Support ERPS (G.8032). - Support STP/RSTP/MSTP. - Support interface backup and interface isolation.
IP routing	- Support IPv4 static route and IPv6 static route. - Support RIP, OSPF, ISIS, BGP, and other IPv4 dynamic routing protocols. - Support RIPng, OSPFv3, and other IPv6 dynamic routing protocols.
IPv6	- Support dual stacks. - Support IPv6 Ping, IPv6 Tracert, IPv6 Telnet, IPv6 SSH, and IPV6 FTP/TFTP/SFTP. - Support IPv6 SNMP and RCVIEW for IPv6 network management. - Support IPv6 RADIUS, IPv6 TACACS+, IPV6 NTP, and SNTP. - Support DHCPv6 Client/Server/Snooping/Relay/Option18/Option37. - Support IPv6 Source Guard, RA Guard, ND, and ND Snooping.

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DHCP	• Support VRRPv3.
	• Support DHCPv4/v6 Client/Server.
	• Support DHCPv4/v6 Snooping.
	• Support DHCPv4/v6 Relay.
	• Support DHCPv4 option 61, DHCPv4 option82, DHCPv6 option18, and DHCPv6 option37.
Security	• Support AAA domain-based user management, IEEE dot1x authentication, and RADIUS authentication.
	• Support storm control based on interface and VLAN.
	• Support the whitelist, port security MAC, and MAC address limit.
	• Support IP and ARP attack prevention: IPv4/v6 Source Guard, DAI, and ND Snooping.
	• Support SSH v2.0, SFTP, and HTTPS.
	• Support CPU protection.
	• Support DOS/ICMP attack prevention.
Ring protection	• Support STP, RSTP, and MSTP.
	• Support ERPS (G.8032).
Management and maintenance	• Support multiple management and maintenance modes, such as CLI, SNMP v1/v2c/v3, Telnet, SSH2.0, and Web, to facilitate device management.
	• Support the RCVIEW NMS.
	• Support system logs, hierarchical alarms, and Dying gaps alarms.
	• Support the uniform user management, and group-based, domain-based, and time-based authorization.
	• Support online detection of the device status, thus monitoring the key components, system temperature, power supplies, and fans.

Specifications >>

Number of slots	4
Number of uplink MCCs	1 (removable)
Switching capacity	680 Gbps
PON	8*XG(S) PON Combo interfaces, Class C+/C++ GPON: Downstream 2.488 Gbps and Upstream 1.244 Gbps XGS PON: Downstream 9.953 Gbps and

Standards and protocols >>

ITU-T 984	ITU-T 988	ITU-T 987
ITU-T 9807	ETSI EN 300 019-1-1~3	
IEC 60068-2	IEC 60721-2-6	
IEC 60721-3-1~3	ETSI EN 300 753	
NEBS GR-63-CORE	ROHS	
IEC 61000-4-29	EN 61000-4-2~6	

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PON optical splitting ratio	Upstream 9.953 Gbps 1:256	EN 61000-4-29 ETSI EN 300 386 V1.6.1 ETSI ES 201 468 V1.4.1
Number of fans	1	VCCI V-3 EN 55022 EN 55024
Power supply	AC: 110/220 V; voltage range: 100–240 V (50/60 Hz) DC: -48/-60 V; voltage range: -36 to -72 V	EN 55032 ITU-T K.20 CISPR 22 CISPR 24 ITU-T K.32 ITU-T K.44
Dimensions	440 mm (Width) x 266 mm (Depth) x 44 mm (Height)	FCC part 15 ICES-003 EN 60950-1 EN 60825-1~2
Environment	Operating temperature: -10 to 55°C Operating humidity: 10%–90% RH (non-condensing)	
Weight	< 6 kg	
Maximum power consumption	< 101 W	

Ordering information>>

ISCOM6810-XC08-AC/D	1U cartridge XPON OLT with management, service switching, and aggregation functions, with 8 XG(S) PON Combo interfaces, two 100GE interface (QSFP28), and four 10GE interfaces (SFP+), dual AC power supplies
ISCOM6810-XC08-DC/D	1U cartridge XPON OLT with management, service switching, and aggregation functions, with 8 XG(S) PON Combo interfaces, two 100GE interface (QSFP28), and four 10GE interfaces (SFP+), dual DC power supplies (-48/-60 V)
ISCOM6810-XC08-AC_DC	1U cartridge XPON OLT with management, service switching, and aggregation functions, with 8 XG(S) PON Combo interfaces, two 100GE interface (QSFP28), and four 10GE interfaces (SFP+), dual power supplies (AC + -48/-60 VDC)

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