

ISCOM5104G EPON Optical Network Unit

ISCOM5104G is a cost-efficient EPON ONU device, which is designed to access residential and business subscribers into PON network. It provides one single strand PON interface and 4*10/100/1000M Ethernet interface to access subscriber's gateway, switches or computer. Together with Raisecom ISCOM5508 OLT or ISCOM5800E device, it provides full L2 switching functionality for data and IPTV services. The whole GEAPON system is ideal solution for carriers to deploy packet switching network with limited fiber resource, can be remotely monitored and managed through OLT device. So the whole EPON system is ideal solution for carriers to deploy packet switching network with limited fiber resource.

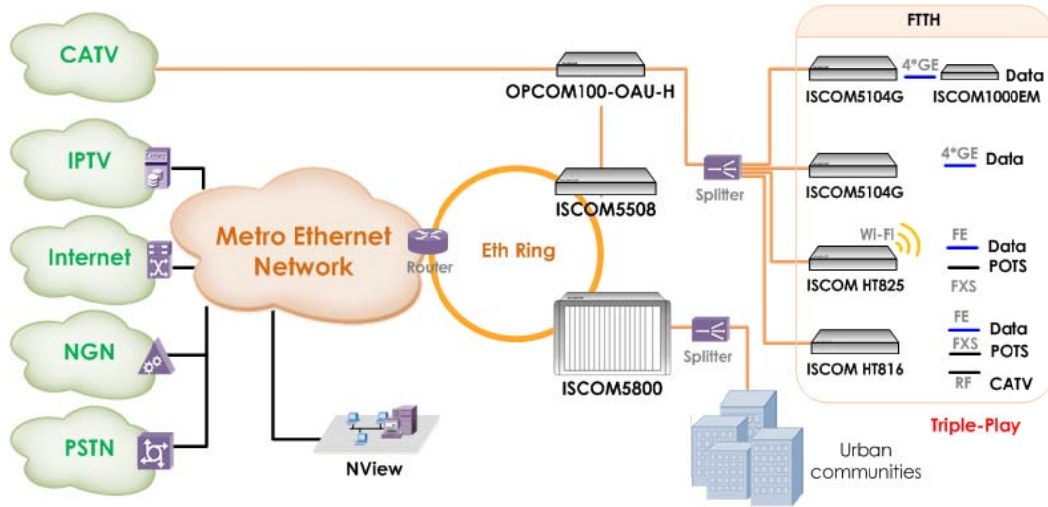
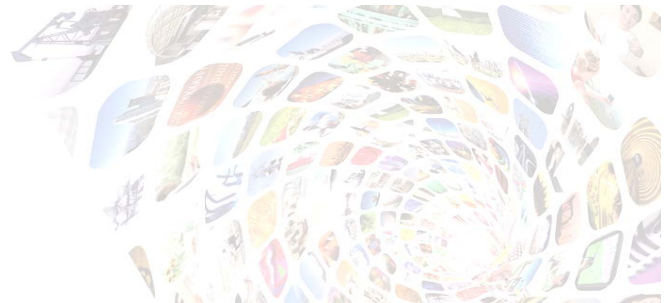


ISCOM5104G

Highlights

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|----------------------------------|--|
| High Bandwidth | Provide 4*Gigabit Ethernet downlink ports. |
| Plug and Play | Based on automatic discovery and configuration of ONU "Plug and Play", Support the pre-deployment for configuration data. |
| Link diagnostic | Optical link measurement and diagnostic on PON network. Support the power supply of optical module shutdown function.
Diagnosed parameter: TX power, RX power, Temperature, P3V3 supply voltage, Transfer Distance,
Warning threshold etc. |
| Varied PON Interface Type | Provide SC/PC, SC/APC, FC/PC PON optical interface type |
| Multiform Management | IEEE802.3 standard OAM, extended 802.3ah OAM,
ONU can be remotely managed by OLT.
Local management through console port
Remote management through SNMP and Telnet, SNMP V1/V2/V3
GUI NMS user-friendly interface
Web interface management |
| Performance Management | Performance component of GUI NMS support remotely monitored the entire network, monitor traffic flow stat. of Ethernet/PON port, CPU utilization etc. |

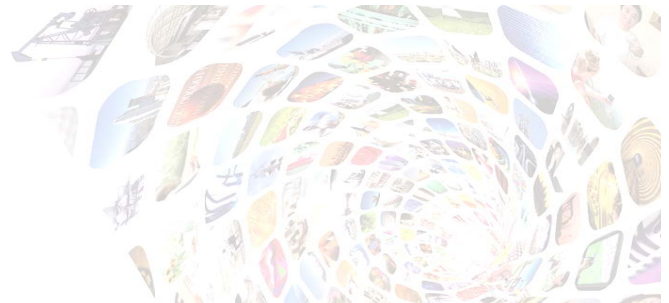
Typical Application



High-density Triple-play FTTH services for residential areas

Key Features

Forwarding mode	Store and Forward
Max frame size	1518 or 1596 Bytes, default 1596 Bytes
Security	Bi-directional AES-128 encryption, triple churning
Port rate limitation	Based on ingress and egress of each port, 32 kbps increments
Storm control	Support storm control of broadcast, multicast and DLF according to PPS
Flow control	IEEE802.3x in full duplex, back pressure in half duplex
Port mirror	Port mirror based on ingress and egress per port
Spanning tree	RSTP for improving network resiliency and reliability, compatible STP
Loopback detection	Loop back detection for avoiding storms caused
MAC address table	2K MAC addresses
VLAN	IEEE802.1q 68 VLANID, range 1~4094, VLAN Transparent, tag, Trunk, Translation mode setting VLAN stacking , IEEE802.1ad standard
SLA	Support upstream Service Level Agreement, increment 64~1Mkbps Upgradeable dynamic DBA algorithm Rate-limiting on Ethernet and PON interface, 64K~1M bps increments
QoS	Up to 4 output queues Strict Priority forwarding(SP) scheme Weighted round robin(WRR)
ACL	Support L2 - L4 packet filtering, classify and attemper



Port isolation	Support different Ethernet ports intercommunication enable or disable protecting the ports
DHCP & PPPoE	DHCP Snooping, PPPoE Relay, PPPoE Agent
Multicast	IGMP Snooping V1/V2/V3, Transparent

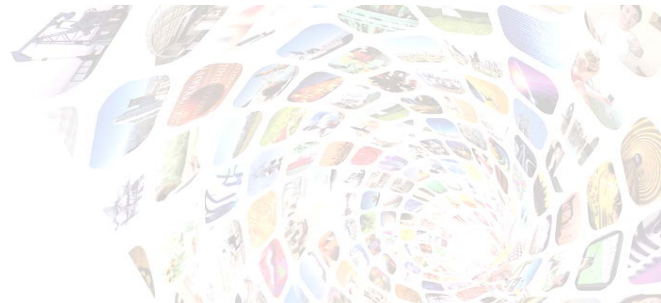
Specifications

EPON Interface	1 EPON interface SFF optical module SC/PC, SC/APC, FC/PC connector 1310nm burst receive 1490nm continuous transmit Symmetric 1.25Gbps 20km distance Split ratio: Max. 1:64
Ethernet Interface	4*10/100/1000M auto-negotiation RJ45 connector Full/half duplex mode Auto MDI/MDI-X 100m distance
Serial port configuration	9600bps/8bit/none parity/1 stop bit
Dimension	260(W)*44(H)*130(D) mm
Weight	< 1.1kg
Power supply	AC: 100V ~ 240V AC DC +24V: 18V ~ 36V DC DC +12V: 11V ~ 18V DC
Power consumption	≤ 5W (at max load)
Working environment	Temp: 0~55 centigrade RH: 10~90% non-condensing
Storage environment	Temp: -25~60 centigrade RH: 10~90% non-condensing

Compliances

Standards & protocols	IEEE802.3 IEEE802.3ah IEEE802.3u IEEE802.3ab IEEE802.3z IEEE802.3x IEEE802.1p IEEE802.1Q
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Ordering Information



ISCOM5104G-SC/PC-AC Optical Network Unit of GEAPON system, provides 4*10/100/1000BaseT interface for users and 1*PON interface for uplink, AC: 100V~240V power supply

ISCOM5104G-SC/PC-DC Optical Network Unit of GEAPON system, provides 4*10/100/1000BaseT interface for users and 1*PON interface for uplink, DC -48V: -36V~-72V power supply

Appendix Specification of PON interface

Optical Connector	Wavelength (nm)	Rx sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)	Overload point (dBm)
SC/PC	1310	>-27	-1~+4	20	>-3dBm