RAISECOM
Raisecom Technology Co., Ltd

ISCOM5204-H1 EPON ONU

ISCOM5204-H1 is a client-side EPON Optical Network Unit device fully integrating EPON and switch technology. It is designed to access residential and business subscribers into PON network with designed handsome plastic shell. The device can be directly placed at home of end-user for FTTH solution, supporting data and voice over IP network service. ISCOM5204-H1 provides one single strand PON interface, 4*10/100M Ethernet interface for accessing subscriber's gateway or computer and 2*Pots interface for connecting analog phones. Together with Raisecom OLT device, it provides full L2 switching functionality for high speed data, voice, fax and IPTV services, can be remotely monitored and managed through OLT device and GUI Nview NNM system. The whole EPON system is ideal solution for carriers to deploy packet switching network with limited fiber resource.

ISCOM5204-H1 EPON ONU

Datasheet

Feature

Forwarding mode	Store and forward
Max frame size	1596 Bytes
Plug and Play	Based on automatic discovery and configuration of the ONU "Plug and Play"
Link diagnostic	Link measurement and diagnostic on PON network Diagnosed parameter: TX power, RX power, Temperature, P3V3 supply voltage, Transfer Distance, warning threshold etc.
MAC address table	1K MAC address
Voice function	Support SIP, H.248, TCP, UDP, SDP, RTP/RTCP protocol Codec support: G.711 a/μ law,G.729,G.726.G.723 etc Mixed SIP,P2MP calls by SIP proxy server Support Peer-to-peer directly calls Transparent/T.38 fax relay
VLAN	IEEE802.1Q, double tagging (Q-in-Q), 64 active VLAN, IEEE802.1ad
Multicast	IGMP Snooping V1/V2/V3
Security	Bi-directional AES-128 encryption, triple churning
Flow control	Support IEEE802.3X flow control
Loopback detection	Loop back detection for avoiding storms caused
Port mirror	Port mirror based on ingress and egress per port
Spanning tree	STP and RSTP for improving network resiliency and reliability
Storm control	Support storm control of broadcast, multicast and DLF according to PPS
Quality of Service	Upgradeable dynamic DBA algorithm Rate-limiting on ethernet and PON interface, 64K~1M bps increments Customized quality of service for assured SLA
ACL	Support L2 - L4 packet filtering based on source MAC address, destination MAC address, source IP address, destination IP address, port, protocol, VLAN
QoS	IEEE802.1P QoS, IPV4 Up to 4 output queues for each port SP, WRR queue scheduling policy TOS, COS, DSCP Priority, traffic classification Support L2-L4 packet filtering

Specification

PON interface	1 PON interface SFF optical module SC/PC connector Single mode, single-strand 1310nm burst transmit 1490nm continuous receive Symmetric 1.25Gbps 20km distance split ratio:1:32, 1:64 Indicators: PON
Ethernet interface	4*10/100M auto-negotiation RJ45 connector Full/half duplex mode Auto MDI/MDI-X 100m distance Indicators: LAN1/2/3/4
FXS interface	2*RJ-11 telephone port
Dimension	226(W)*37(H)*169(D) mm
Weight	< 1.5kg
Power supply	External 12V power supply adapter
Power consumption	≤ 10W (at max load)
Working environment	Temp: 0 ~ 40 Celsius RH:10 ~ 95% non-condensing
Storage environment	Temp: - 40 ~ 70 Celsius RH: 5 ~ 95% non-condensing

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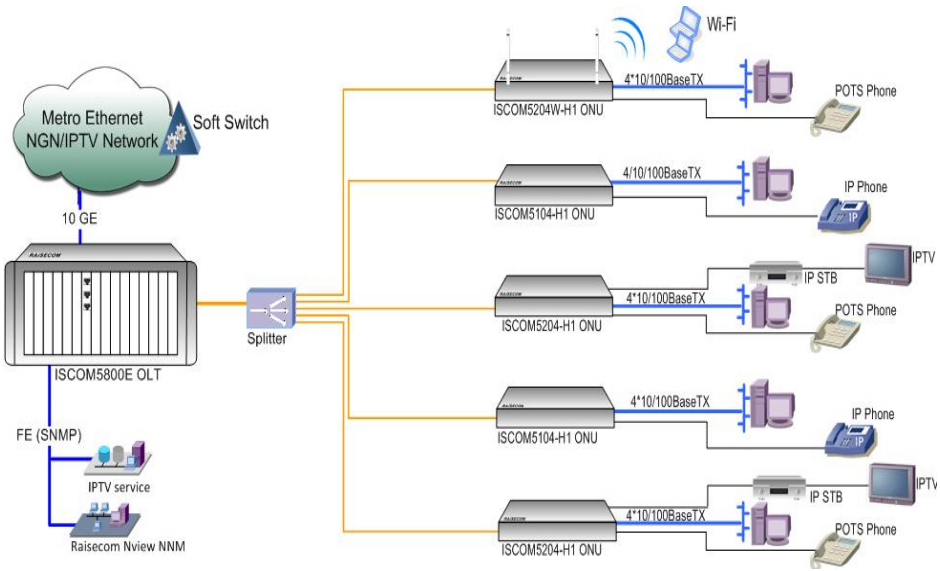
Datasheet

OAM	IEEE802.3 standard OAM, extended 802.3ah OAM
Management	Local management through console port Remote management through SNMP and Telnet, SNMP V1/V2/V3 GUI NMS user-friendly interface ONU devices can be remotely managed by OLT
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



Ordering information

ISCOM5204-H1	Optical Network Unit of EPON system, provides 4*10/100Base T interface and 2*RJ11 interface for users and 1*PON interface for uplink, external 12V power supply adapter.

Compliance

Standards & protocols	IEEE802.3-2002 IEEE802.3ah-2004 IEEE802.1p-2002 IEEE802.1Q-2003 RFC2011 SNMPv2 RFC2012 SNMPv2 RFC2013 SNMPv2 RFC2233 RFC2574 RFC2819 RFC3273 RFC3418 RFC 3261/2543 RFC2327 RFC3550 RFC3551

Appendix Specification of PON interface

Optical Connector	Wavelengh (nm)	Rx sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)	Overload point (dBm)
SC/PC	1310	< -27	-1 ~ +4	20	> -6dBm

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