

ISCOM5116 GEAPON Optical Network Unit

ISCOM5116 is a cost-efficient GEAPON ONU device, which is designed to access residential and business subscribers into PON network. It provides one single strand PON interface and 16*10/100M Ethernet interface for accessing subscriber's gateway or computer. Together with Raisecom ISCOM5504 OLT

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. ISCOM5116 can be remotely monitored and managed through OLT device.

Feature

Forwarding mode	Store-and-forward
Max frame size	1518 Bytes; 1596 Bytes
Port rate limiting	Based on ingress and egress of each uni port Increments: 64Kbps(64K-1M), 1Mbps(1-100M), 10Mbps(100-1000M)
Storm control	Support storm control of broadcast, multicast and DLF according to PPS
Multicast	IGMP Snooping V1/V2/V3 Multicast VLAN Registration (MVR)
Spanning tree	STP and RSTP
Link aggregation	Up to 4 trunk groups, 4 types of load-sharing based on MAC and IP address
Mirror	Port-to-Multiport mirroring, separate mirroring of ingress and egress traffic
MAC address table	IEEE802.1D standard address learning MAC address learning function can be enabled/disable on each port 8K MAC address, 100 static MAC address Support MAC address clear/search function Show MAC address and MAC address stats function The number of dynamic learned MAC address can be limited on per port
Flow control	IEEE802.3x in full duplex, back pressure in half duplex
VLAN	IEEE802.1Q, double tagging (Q-in-Q), 4K active VLAN
Transparent transmission	Support BPDU, Dot1x, LACP, GMRP, GVRP, and GARP on per port
SLA	Support upstream Service Level Agreement, increment 64kbps
Link diagnostic	Link diagnostic on PON network
OAM	Support IEEE802.3ah standard OAM and Raisecom OAM
Encryption and security	Prevent illegal ONU from accessing the PON network through ONU register control; illegal ONU cannot register to OLT equipment
Remote management	ONU devices can be remotely managed
Network management	Support SNMP management
Supervisory	Support monitoring of GEAPON related statistics information; configuring monitor variable; alarm management
Advanced feature	
QoS	Support CAR (Committed Access Rate) function at 1M increment Up to 4 output queues Support 1K data flow queues at maximum VLAN ID replacement based on data flow Support IEEE802.1p and DSCP PRI remark Support QoS Profile management, customized QoS proposal Support re-mark function based on port ID, MAC address, VLAN, IEEE802.1p priority, diffServe and IP TOS



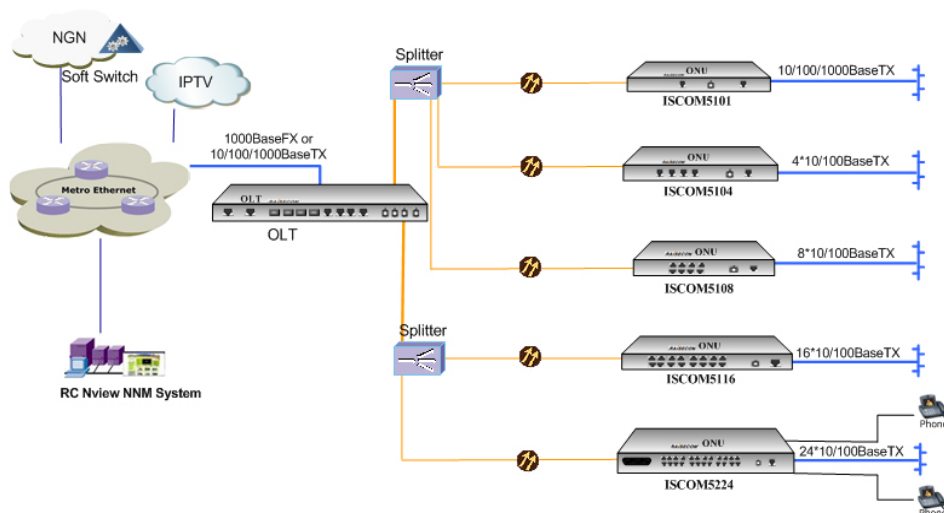
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Specification

GEAPON interface	1 GEAPON interface SFF optical module SC connector single mode, single-strand 1310nm burst receive 1490nm continuous transmit Symmetric 1.25Gbps 20km distance Split ratio: 1:64 Indicators: LNK, ACT
Ethernet interface	16*10/100M Auto-negotiation supported RJ45 connector Full/half duplex mode Flow control at both modes Auto MDI/MDI-X 100m distance Indicators: LNK, ACT
Serial port configuration	9600bps/8bit/none parity/1 stop bit/none flow control
Indicators	Power Supply System (flashing)
Dimension	440(W)*220(D)*44(H)mm
Weight	2.8KG
Power supply	AC: 90~264V, 47~63Hz DC: -36~-72V, 18V~36V, 11V~18V
Power consumption	≤ 15W (at max load)
Working ambience	Temp: 0~50 centigrade RH: 10~90% non-condensing
Storage ambience	Temp: -25~60 centigrade RH: 10~90% non-condensing

Queue schedule algorithm	Strict Priority (SP), Weighted Round Robin (WRR), Bounded delay and hybrid (SP + WRR) schedule
ACL	Support L2 - L4 packet filtering based on source MAC address, destination MAC address, source IP address, destination IP address, port, protocol, VLAN, VLAN range, MAC address range and illogical frames

Typical application



Ordering information

ISCOM5116-AC	Optical Network Unit of GEAPON system, provides 16*10/100BaseT interface for users and 1*GEAPON interface for uplink, AC power supply
ISCOM5116-DC	Optical Network Unit of GEAPON system, provides 16*10/100BaseT interface for users and 1*GEAPON interface for uplink, -48V DC power supply
ISCOM5116-DC(+24)	Optical Network Unit of GEAPON system, provides 16*10/100BaseT interface for users and 1*GEAPON interface for uplink, +24V DC power supply
ISCOM5116-DC(+12)	Optical Network Unit of GEAPON system, provides 16*10/100BaseT interface for users and 1*GEAPON interface for uplink, +12V DC power supply

Compliance

Standards & protocols	<ul style="list-style-type: none"> IEEE802.3-2002 IEEE802.3ah-2004 IEEE802.1w IEEE802.3ad IEEE802.3x full duplex on 10BaseT, 100BaseTX, and 1000BaseT ports IEEE802.1D Spanning Tree Protocol IEEE802.1p CoS Prioritization IEEE802.1Q VLAN IEEE802.3 10BaseT IEEE802.3u 100BaseTX RMON I and II standards SNMPv1/v2c/v3 RFC2233 RFC2574 RFC2819 RFC3273 RFC3418
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