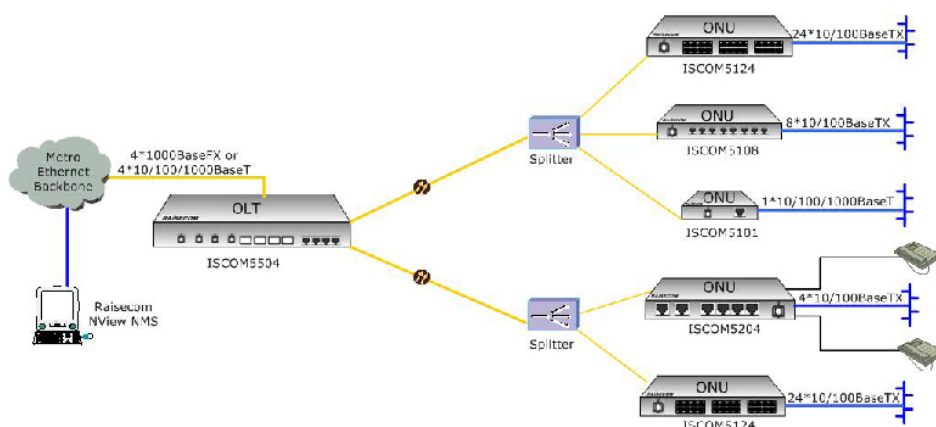# ISCOM5101 GEPON Optical Network Unit

ISCOM5101 is a cost-efficient GEPON ONU device, which is designed to access residential and business subscribers into PON network. It provides one single strand PON interface and one 10/100/1000M Ethernet interface for accessing subscriber's gateway or computer. Together with Raisecom ISCOM5504 OLT or ISCOM5800 OLT device, it provides full L2 switching functionality for data and IPTV services. The whole GEPON system is ideal solution for carriers to deploy packet switching network with limited fiber resource. ISCOM5101 can be remotely monitored and managed through OLT device.

ISCOM5101 GEPON Optical Network Unit

Feature

Forwarding mode	Store-and-forward
MTU	1536 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 the configured PPS (packets per second)
Flow control	IEEE802.3x in full duplex, back pressure in half duplex Head of Line
VLAN	IEEE802.1Q, 4K active VLAN VLAN stacking (Q-in-Q)
SLA	Upstream SLA on 64Kbps increment
Link diagnostic	Link diagnostic on PON network
OAM	Support IEEE802.3ah standard OAM and Raisecom OAM
Remote management	ONU devices can be remotely managed
Network management	Support SNMP management
Supervisory	Support monitoring of GEPON related statistics information; configuring monitor variable; alarm management

Typical Application

Specification

GEPON interface	1 GEPON port SFF optical module SC connector Single mode single strand 1310nm burst transmit 1490nm continuous receive Symmetric 1.25Gbps 10~20km distance Indicators: LNK, ACT
Ethernet interface	1*10/100/1000M Auto-negotiation supported RJ45 connector Full/half duplex mode Flow control at both modes Auto MDI/MDI-X 100m distance Indicators: LNK/ACT, FDX, 100M, 1000M
Console port	1*RS232 port RJ45 connector 9600 baud/s 8 data bits, 1 stop bit No parity No flow control
Indicators	Power Supply System (flashing)
Dimension	260(W)*130(D)*38(H)mm
Weight	1.1KG
Power supply	AC: 90~264V, 47~63Hz DC: -36 ~ -75V
Power consumption	≤ 10W (at max load)
Working ambience	Temp: 0~45 centigrade RH: 10~90% non-condensing
Safety compliance	CE Class A EN 60950-1 UL 60950-1

Typical Application

ISCOM5101-AC	Optical Network Unit of GEPON system, provides 1*10/100/1000BaseT interface for users and 1*GEPON interface for uplink, AC power supply
ISCOM5101-DC	Optical Network Unit of GEPON system, provides 1*10/100/1000BaseT interface for users and 1*GEPON interface for uplink, DC power supply

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