



ISCOM5108-PE EPON Optical Network Unit

ISCOM5108-PSE is a cost-efficient EPON reverse supply power of Ethernet port ONU device, which is designed to access residential and business subscribers into PON network. It provides one single strand PON interface, 8*10/100M Ethernet interface for accessing subscriber's gateway or computer.

ISCOM5108-PE is designed "Power over Ethernet", through connecting with Ethernet port of remote PSE device (PSE101 or PSE101-12) receive power supply. Together with Raisecom ISCOM5504 or ISCOM5800E OLT device, it provides full L2 switching functionality for data and IPTV service, 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.



ISCOM5108-PE



PSE101/PSE101-12

Highlights

Power over Ethernet Power over Ethernet device, receive Power supply by network cable connecting PSE device.

PSE101 support network interface 4578 supply power. PSE101-12 support network interface 1236 supply power.

Plug and Play Based on automatic discovery and configuration of 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.

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

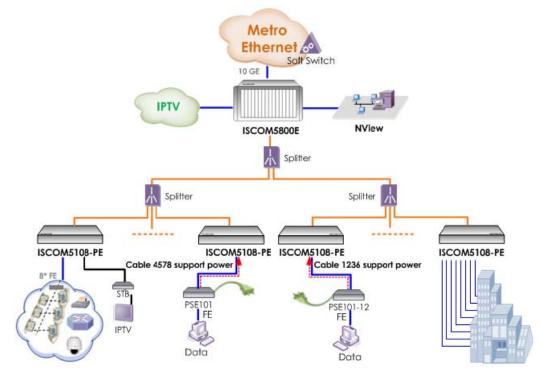
Performance Performance component of GUI NMS support remotely monitored the entire network, monitor

Management traffic flow stat. of Ethernet/PON port, CPU utilization etc.

Typical Application







Reverse supply power ONU typical application

Key Features

Famuarding made				
Forwarding mode	Store and Forward			
Max frame size	1596 Bytes			
Security	Bi-directional AES-128 encryption, triple churning			
Port rate limiting	Based on ingress and egress of each port, 64k~1M bps 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			
Loopback detection	Loop back detection for avoiding storms caused			
MAC address table	8K MAC addresses			
VLAN	IEEE802.1Q 4096 VLAN, VLAN stacking, swapping, rewriting			
	IEEE802.1ad flexible QinQ			
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 scheme			





	Support L2-L4 packet filtering
ACL	Support L2 - L4 packet filtering based on source MAC address, destination
	MAC address, source IP address, destination IP address, port, protocol, VLAN.
Port isolation	Support different Ethernet ports intercommunication enable or disable protecting the
	ports
Multicast	IGMP Snooping V1/V2/V3, Transparent

Specifications

specifications	
EPON	1 EPON interface
Interface	SFF optical module
	SC/PC connector
	Single mode, single-strand
	1310nm burst receive
	1490nm continuous transmit
	Symmetric 1.25Gbps
	20km distance
	Split ratio: Max. 1:64
	Indicators: LNK
Ethernet	8*10/100M auto-negotiation
Interface	RJ45 connector
	Full/half duplex mode
	Auto MDI/MDI-X
	100m distance
	Indicators: LNK, ACT;
Serial port	9600bps/8bit/none parity/1
configuration	stop bit/none flow control
Dimension	260(W)*44(H)*130(D) mm
Weight	< 1.0kg
Power supply	Using PSE device reverse power supply
	PSE101/PSE101-12 AC:175~264V
Power	≤ 10W (at max load)
consumption	
Working	Temp: 0~55 centigrade
environment	RH: 10~90% non-condensing
Storage	Temp: -25~60 centigrade
environment	RH: 10~90% non-condensing

Compliances

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Standards &	IEEE802.3-2002
protocols	IEEE802.3ah-2004
	IEEE802.3af
	IEEE802.3x
	IEEE802.1ad
	IEEE802.1p-2002
	IEEE802.1Q-2003
	RFC2011 SNMPv2
	RFC2012 SNMPv2
	RFC2013 SNMPv2
	RFC2233
	RFC2574
	RFC2819
	RFC3273
	RFC3418
	RFC 3261/2543
	RFC 2327
	RFC 3550
	RFC 3551



Ordering Information

ISCOM5108-PE	"Power over Ethernet" ONU device of GEPON system, 1*PON interface for uplink and provides
	8*10/100BaseT interface for users, receive power supply through connecting with remote PSE device
	(PSE101 or PSE101-12).
PSE101	Power supply PSE device, supply 2 Ethernet port and 220V AC, 15.4W power supply through the network
	interface 4578.
PSE101-12	Power supply PSE device, supply 2 Ethernet port and 220V AC, 15.4W power supply through the network
	interface 1236.

Appendix Specification of PON interface

Optical Connector	Wavelengh	Rx sensitivity	Tx Power	Typical distance	Overload point
	(nm)	(dBm)	(dBm)	(km)	(dBm)
SC/PC	1310	>-27	0~+4	20	>-6dBm

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