

## ISCOM HT803-V GEAPON Optical Network Unit

ISCOM HT803-V is a client-side GEAPON Optical Network Unit device fully integrating PON 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. ISCOM HT803-V 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 ISCOM5508/5800E 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.

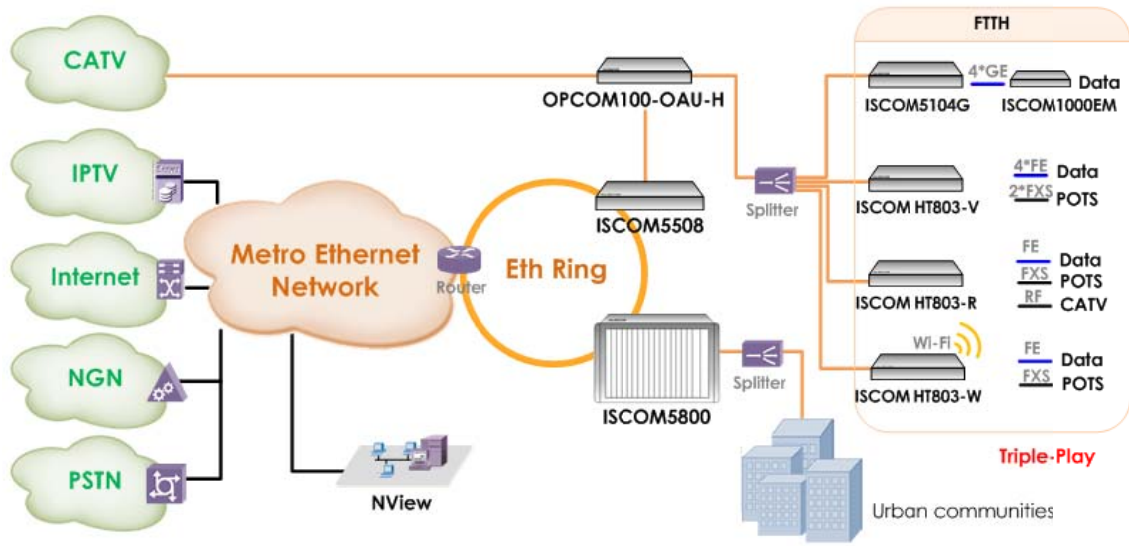


ISCOM HT803-V

### Highlights

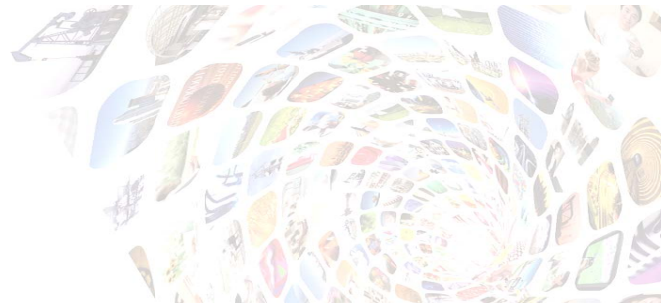
<b>Multi service accessing</b>	Provide 4* Ethernet downlink ports, 2*RXS port, SDTV, HDTV
<b>Plug and Play</b>	Based on automatic discovery and configuration of ONU "Plug and Play",
<b>Config management</b>	Support the pre-deployment, batch and offline configuration. Support configuration upload, download, save, renew default, backup .etc
<b>Link diagnostic</b>	Optical link measurement and diagnostic on PON network. Diagnosed parameter: TX power, RX power, Temperature, P3V3 supply voltage, Transfer Distance, Warning threshold etc. Support the power supply of optical module shutdown function. Dying gasp and alarm reporting. Loop back detection for avoiding storms caused.
<b>Multiform Management</b>	IEEE802.3 standard OAM, extended 802.3ah OAM, ONU can be remotely managed by OLT. Remote management through SNMP and Telnet, SNMP V1/V2/V3 GUI NMS user-friendly interface Web interface management
<b>Performance Management</b>	Performance component of GUI NMS support remotely monitored the entire network, monitor traffic flow stat. of Ethernet/PON port, CPU utilization etc.

### Typical Application



## Key Features

Forwarding mode	Store and Forward
Max frame size	1518, 1596 Bytes
Security	Bi-directional AES-128 encryption, triple churning
ARP	Support ARP protocol
Storm control	Support storm control of broadcast, multicast and DLF
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
Loopback detection	Loop back detection for avoiding storms caused
MAC address table	1K MAC addresses table capacity
VLAN	IEEE802.1q 4094 VLANID, range 1~4094, VLAN Transparent, tag, Trunk, Translation mode setting VLAN stacking (QinQ) , IEEE802.1ad standard
Port rate limitation	Support upstream Service Level Agreement Upgradeable dynamic DBA algorithm Rate-limiting on Ethernet and PON interface
QoS & ACL	Up to 4 output queues Strict Priority forwarding(SP) scheme, weighted round robin(WRR), SP+WRR 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  
Multicast address table capacity 128

**VoIP Features** Support SIP, H.248, T.38  
Peer-to-peer direct call, SIP Proxy server call, support UAC, UAS, SIP outbound, dialing plan  
UDP, SDP, RTP/RTCP, MGCP protocol  
Codec capability: G.711 a/μ law, G.729A, G.723.1  
Fax/modem capability: T.38 Fax Relay, G.711 Pass-Through  
Call display service, Call Forwarding, Call hold, Call waiting, Call Transfer  
Echo cancellation, automatic gain control, silence suppression, comfort noise generation

## Specifications

<b>EPON Interface</b>	1 EPON interface, 1000BASE-PX20+ SC/PC connector 1310nm burst receive 1490nm continuous transmit Symmetric 1.25Gbps 20km distance Split ratio: Max. 1:64
<b>Ethernet Interface</b>	4*10/100M auto-negotiation RJ45 connector Full/half duplex mode Auto MDI/MDI-X 100m distance
<b>POTS port</b>	RJ-11 Transmission rate: 8kbits(G.729), 64kbit/s(G.711)
<b>Serial port configuration</b>	9600bps/8bit/none parity/1 stop bit
<b>Dimension</b>	220(W)*38(H)*172(D) mm
<b>Weight</b>	600g
<b>Power supply</b>	External AC-DC power supply adapter Input: 100V~240V AC Output: 12V/1.5A
<b>Power consumption</b>	≤ 10W (at max load)

## Compliances

<b>Standards &amp; protocols</b>	IEEE802.3 IEEE802.3ah IEEE802.3u IEEE802.3ab IEEE802.3z IEEE802.3x IEEE802.1p IEEE802.1Q
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Working environment	Temp: 0~40 centigrade RH: 10~95% non-condensing
Storage environment	Temp: -40~70 centigrade RH: 5~95% non-condensing

## Ordering Information

ISCOM HT803-V	Optical Network Unit of GEAPON system, provides 4*10/100Base T interface and 2*RJ11 interface for users and 1*PON interface for uplink, external12V power supply adapter.
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## 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