



## ISCOM5104-EA EPON ONU

### ▼ Introduction

The ISCOM5104-EA, developed by Raisecom to meet the requirements of the current FTTx, is a pure data-type ONU with 1 EPON uplink optical interface and 4 FE downlink interfaces, which can meet the uplink/downlink bandwidth requirements in the current FTTB+LAN or FTTB scenario.

Currently, one device shared by many users can reduce the difficulty in construction and maintenance cost, thus effectively improving ARPU.

It adopts the metallic shell, sturdy and durable, embedded with power supply, featuring high safety protection level, high lightning protection level, thus suitable for places such as corridors.



ISCOM5104-EA

### ▼ Features

- Adopt a metallic shell, sturdy and durable, embedded with power supply, high safety protection level, high lightning protection level, and good quality.
- Adopt abundant PON optical interfaces (SC/PC, SC/APC, and FC/PC) to meet the requirements of various markets.
- Adopt multiple power supplies (220 VAC, 60 VAC, -48 VDC, 24 VDC, and 12 VDC), used in various scenarios.
- Adopt single-panel cable outlet (power interface and service interfaces are on the same panel, namely, front panel) and support various installation modes to facilitate installation and maintenance.
- ◆ **Rich service features**
- Meet the requirements of YD/T 1475-2006 AN technology and fully support the CTC2.1 standard.
- Support four VLAN modes (Transparent, Tag, Trunk and Switching) and three multicast modes (transparent transmission, IGMP Snooping, and CTC controllable multicast), which can fully meet the requirements of broadband and VOD services.
- ◆ **Uniform network management and easy operation and maintenance**
- Support multiple management modes (Telnet, Web, Console, SNMP, and OAM) to facilitate management and maintenance.
- Support discovery and management of partner devices



---

(SNMP) to facilitate management on downstream

devices with PON+LAN networking.

- Support batch configuration, template-based configuration, offline configuration, and plug and play of ONUs, to facilitate service activation.
- Provide information about the indicator lights which can be used to judge the device status.
- Support reporting various alarms (Dying Gasp, optical link diagnosis, loop, etc.) to facilitate locating and clearing faults.



▼ Specifications

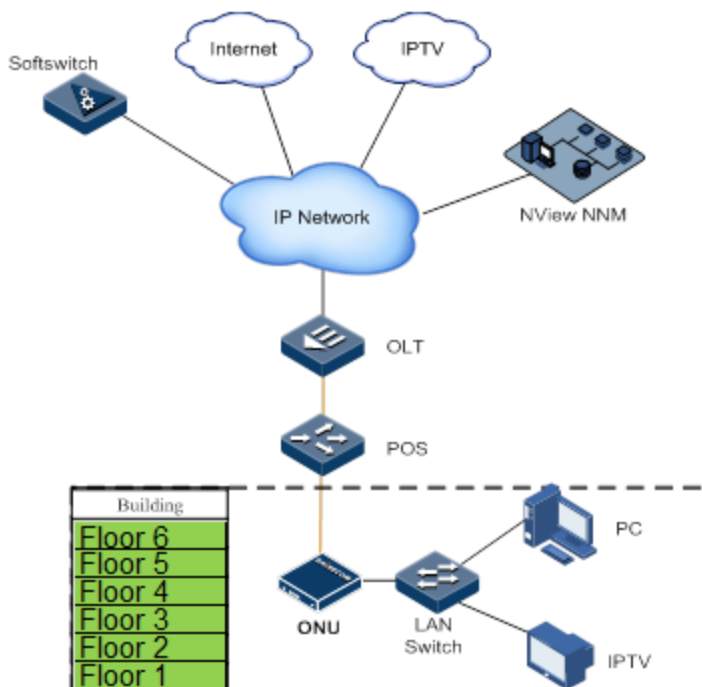
Hardware features	
<b>Model</b>	<b>ISCOM5104-EA</b>
Dimensions	260 mm (Width) × 130 mm (Depth) × 44 mm (Height)
Weight	About 1 kg
Power supply	<ul style="list-style-type: none"> <li>● 220 VAC: 100–240 VAC</li> <li>● 60 VAC: 35–85 VAC</li> <li>● 48 VDC: -36 to -72 VDC</li> <li>● 24 VDC: 18–36 VDC</li> <li>● 12 VDC: 11–18 VDC</li> </ul>
Power consumption	≤ 10 W
Operating environment	<ul style="list-style-type: none"> <li>● Operating temperature: 0–50 °C</li> <li>● Humidity: 10%–90% (non-condensing)</li> </ul>
Storage environment	<ul style="list-style-type: none"> <li>● Storage temperature: -25 to 60 °C</li> <li>● Storage humidity: 10%–90% (non-condensing)</li> </ul>
Dustproof level	IP20
Software features	
PON features	<ul style="list-style-type: none"> <li>● Support two encryption methods: AES-128 and triple stirring</li> <li>● Support optical link DDM and shutting down the Tx power of the optical module.</li> </ul>
Switching	<ul style="list-style-type: none"> <li>● Support rate limiting on the interface.</li> <li>● Support a MAC address table capacity of 1K.</li> <li>● Support 4094 VLANs ranging from VLAN 1 to VLAN 4094.</li> <li>● Support configuring VLAN mode to transparent transmission, Tag, Trunk, and VLAN mapping.</li> <li>● Support configuring VLAN stacking and selective QinQ.</li> <li>● Support interface loop detection between two UNIs on an ONU or UNIs on different ONUs.</li> <li>● Support discovery and management of partner devices. Support configuring and querying SNMP parameters.</li> <li>● Support port mirroring.</li> </ul>



	<ul style="list-style-type: none"> <li>● Support PPPoE Relay.</li> <li>● Support DHCP Snooping and DHCP Relay.</li> <li>● Support dynamic ARP detection.</li> </ul>
QoS & ACL	<ul style="list-style-type: none"> <li>● Support 4 priority queues.</li> <li>● Support SP, WRR, SP+WRR algorithms, and configuring queue weight.</li> <li>● Support Layer 2, Layer 3, and Layer 4 traffic classification, priority mapping, and filtering rules.</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>● Support transparent transmission of multicast packets, IGMP Snooping, and CTC controllable multicast mode.</li> <li>● Support the capacity of the multicast address table to be 128.</li> </ul>
<b>Interface index</b>	
GEPON interface	<ul style="list-style-type: none"> <li>● Interface type: SC/PC, SC/APC, and FC/PC</li> <li>● Transmission rate: 1.25 Gbit/s</li> <li>● Central wavelength: 1310 nm for Tx and 1490 nm for Rx</li> <li>● Tx optical power: -1 to 4 dBm</li> <li>● Maximum Rx sensitivity: -27 dBm</li> <li>● Overload optical power: -3 dBm</li> </ul>
GE interface	<ul style="list-style-type: none"> <li>● Interface type: RJ45</li> <li>● Transmission rate: 10/100 Mbit/s auto-negotiation (FE) and 10/100/1000 Mbit/s auto-negotiation (GE)</li> <li>● Duplex mode: full/half mode auto-negotiation</li> </ul>



▼ Typical applications



**ISCOM5104-EA Networking**

**Introduction**

The ISCOM5104-EA is usually installed in the corridors of residential areas. Through the optical splitter, it connects uplink to the OLT and downlink to the uplink LAN devices (switch) or Internet access terminals.

**Ordering information**

Model	Description
ISCOM5104-EA-SC/PC-AC	EPON uplink(SC/PC), metallic shell 4*FE ONU, single 220 VAC power.