

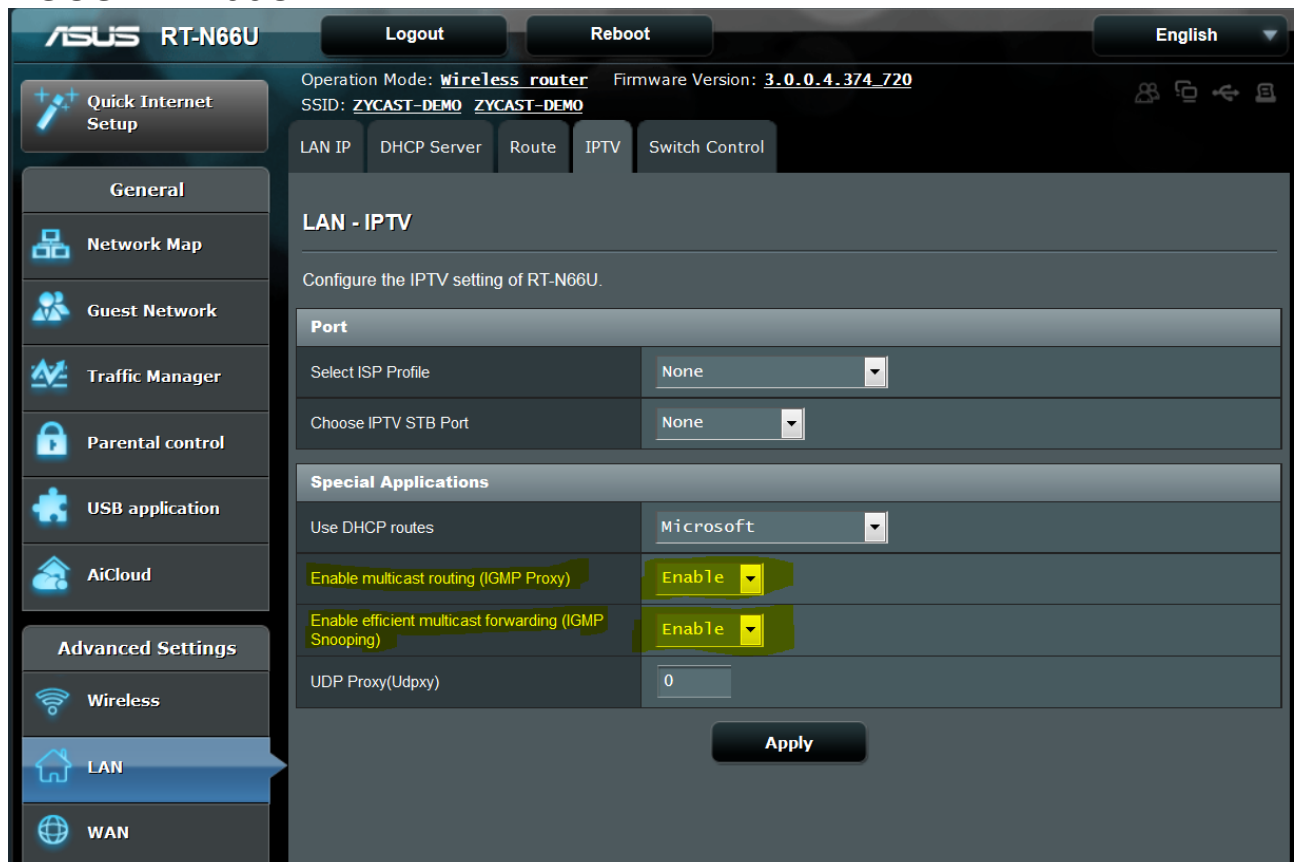


I. Recommended Routers

NO	Brand	Model	
1	ASUS	RT-N66U	
2	Mikrotik	RB450G	

II. Router: IGMP Setup Notes

A. ASUS RT-N66U:



The screenshot displays the ASUS RT-N66U web interface. At the top, it shows the device name "ASUS RT-N66U", "Logout" and "Reboot" buttons, and a language dropdown set to "English". The main header indicates "Operation Mode: wireless router" and "Firmware Version: 3.0.0.4.374.720". Below this, the SSID is shown as "ZYCAST-DEMO".

The navigation menu on the left includes "Quick Internet Setup", "General", "Network Map", "Guest Network", "Traffic Manager", "Parental control", "USB application", "AiCloud", "Advanced Settings", "Wireless", "LAN", and "WAN". The "LAN" menu item is currently selected.

The main content area is titled "LAN - IPTV" and contains the following settings:

- Port**
 - Select ISP Profile: None
 - Choose IPTV STB Port: None
- Special Applications**
 - Use DHCP routes: Microsoft
 - Enable multicast routing (IGMP Proxy): **Enable**
 - Enable efficient multicast forwarding (IGMP Snooping): **Enable**
 - UDP Proxy(Udpxy): 0

An "Apply" button is located at the bottom right of the settings area.

B. Mikrotik RB450G:

The screenshot displays the Mikrotik WinBox PIM configuration interface. The main window shows a table with columns: Interface, Protocols, Designated Router Priority, and IGMP Version. Two rows are visible: 'R ether2-master-local' with protocols 'pim igmp' and priority '1 IGMPv2', and 'DR register' with protocols 'pim' and priority '1 IGMPv2'. A modal dialog 'PIM Interface <ether2-master-local>' is open, showing configuration for the selected interface. The 'Protocols' section has checkboxes for 'pim' and 'igmp', with 'igmp' circled in red. Other settings include Designated Router Priority (1), Hello Period (00:00:30), Hello Triggered Delay (00:00:05), Hello Holdtime (00:01:45), Propagation Delay (50), Override Interval (250), Tracking Support (checked), and Require Hello (checked). The dialog also shows Join Prune Period, Joine Prun Holdtime, Assert Time, Assert Override Interval, Alternative Subnets, and IGMP Version (IGMPv2). At the bottom, the status is 'enabled' and 'designated router'.

Interface	Protocols	Designated Router Priority	IGMP Version
R ether2-master-local	pim igmp	1	IGMPv2
DR register	pim	1	IGMPv2

2 items out of 1 (1 selected)

PIM Interface <ether2-master-local>

General | Status

Interface: ether2-master-local

Protocols: pim igmp

Designated Router Priority: 1

Hello Period: 00:00:30

Hello Triggered Delay: 00:00:05

Hello Holdtime: 00:01:45

Propagation Delay: 50

Override Interval: 250

Tracking Support

Require Hello

Join Prune Period: 00:01:00

Joine Prun Holdtime: 00:03:30

Assert Time: 00:03:00




Assert Override Interval: 00:00:03

Alternative Subnets: [dropdown]

IGMP Version: IGMPv2

enabled | designated router

III. Recommended Switches

NO	Brand	Model	
1	Cisco	Catalyst 2960-S	
2	HP	HP 2530-8 (J9783A)	
3	TP-Link	TL-SG2424	

IV. Switch: IGMP Setup Notes

A. TP-Link TL-SG2424:

1.

The screenshot shows the TP-Link TL-SG2424 web interface. The left sidebar contains a navigation menu with the following items: System, Switching, VLAN, Spanning Tree, Multicast, IGMP Snooping (highlighted), MLD Snooping, Multicast Table, QoS, ACL, Network Security, SNMP, Maintenance, Save Config, and Logout. The main content area is titled 'Snooping Config' and includes tabs for VLAN Config, Port Config, IP-Range, Multicast VLAN, Static Multicast IP, and Packet Statistics. Under 'Global Config', 'IGMP Snooping' is set to 'Enable' and 'Unknown Multicast' is set to 'Forward'. An 'Apply' button is present. Below this is the 'IGMP Snooping Status' table:

Description	Member
Enabled Port	1-24
Enabled VLAN	1

Buttons for 'Refresh' and 'Help' are located below the table. A 'Note' at the bottom states: 'IGMP Snooping will take effect only when Global Config, Port Config and VLAN Config are all enabled.'

2.

The screenshot shows the TP-Link TL-SG2424 web interface. The left sidebar is the same as in the first screenshot. The main content area is titled 'VLAN Config' and includes tabs for Snooping Config, Port Config, IP-Range, Multicast VLAN, Static Multicast IP, and Packet Statistics. The configuration fields are: 'VLAN ID' (empty), 'Router Port Time' (300 sec), 'Member Port Time' (260 sec), 'Leave Time' (1 sec), and 'Static Router Ports' (empty). A 'Create' button is present. Below this is the 'VLAN Table' with a search bar for 'VLAN ID' and a 'Select' button. The table has the following columns: Select, VLAN ID, Router Port Time, Member Port Time, Leave Time, and Router Port. The first row is highlighted in yellow:

Select	VLAN ID	Router Port Time	Member Port Time	Leave Time	Router Port
<input type="checkbox"/>	1	300	260	1	23

Buttons for 'Apply', 'Delete', and 'Help' are located below the table. A 'Note' at the bottom states: 'The settings here will be invalid when multicast VLAN is enabled.'

3.

TP-LINK

TL-SG2424

Snooping Config | **VLAN Config** | Port Config | IP-Range | Multicast VLAN | Static Multicast IP | Packet Statistics

System
Switching
VLAN
Spanning Tree
Multicast
• IGMP Snooping
• MLD Snooping
• Multicast Table
QoS
ACL
Network Security
SNMP
Maintenance
Save Config
Logout

Port Config

Port

Select	Port	IGMP Snooping	Fast Leave	Filter	Action Mode	Bound IP-Range (ID)	Max Groups	LAG
<input type="checkbox"/>		Disable	Disable	Disable	Permit	<input type="text"/>	<input type="text"/>	
<input type="checkbox"/>	1	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	2	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	3	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	4	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	5	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	6	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	7	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	8	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	9	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	10	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	11	Enable	Disable	Disable	permit		256	---
<input type="checkbox"/>	12	Enable	Disable	Disable	permit		256	---

Note:

1. The port filter configuration here has no effect on static multicast IP.
2. Up to 15 IP-Ranges can be bound to one port. Please input the Bound IP-Range (ID) in the format like: 1,5,8.