



Baudcom BD-24Tuner-IP Tuner to IP ASI Gateway User Manual

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Baudcom BD-24Tuner-IP Tuner to IP ASI Gateway



Overview

BD-24TUNER-IP is a professional high integration device which includes tuner demodulation, multiplexing, and modulation. It supports 4/8/12/16/20/24 tuner input(support different types of tuner (DVB-S2 DVB-C DVB-T ATSC DTMBT ISDBT, etc.) input), 1000M IP output, 4 MPTS output and 512 SPTS output In conclusion, its high integrated and cost-effective design makes the device widely used in varieties of digital distribution systems such as cable TV digital head-end, digital TV broadcasting etc.

Key Features

- 4/8/12/16/20/24 tuner input; the tuner supports (DVB-S2/DVB-C/DVB-T/ATSC/ISDBT/DTMBT)
- 1000M IP output over UDP and RTP protocol (MPTS and SPTS)
- Support different types of tuner (DVB-S2 DVB-C DVB-T ATSC DTMBT, ISDBT, etc.) input, or mixed use (e.g., 4 -way dvb – t and 4 – way ATSC input at the same time, making up 8 – way input)
- 2 ASI inputs
- 2 ASI Independent output (optional) as copy of 1MPTS
- Support “Null PKT Filter” function
- Support PID Remapping/ PCR accurate adjusting
- PID pass
- LCD key function
- Control via web management, and easy updates via web

Technical Specification

input	4/8/12/16/20/24 tuner; and the tuner supports (DVB-S2/DVB-C/DVB-T/ATSC/ISDBT/DMBT)	
	2 ASI inputs	
output	2 ASI output	
	IP output 512 SPTS and 4 MPTS IP output over UDP and RTP protocol	
Multiplexing	Maximum PID Remapping	180 output PID per channel
	Function	PID remapping (automatically or manually)
		Accurate PCR adjusting
System function	Network management (WEB)	
	Chinese and English language	
	Ethernet software upgrade	
Miscellaneous	Dimension(W×L×H)	550mm×515mm×140mm
	weight	6kg
	Environment	0~45°C(work) -20~80°C(storage)
	Power requirements	AC100~240V 50/60Hz

Operating specification

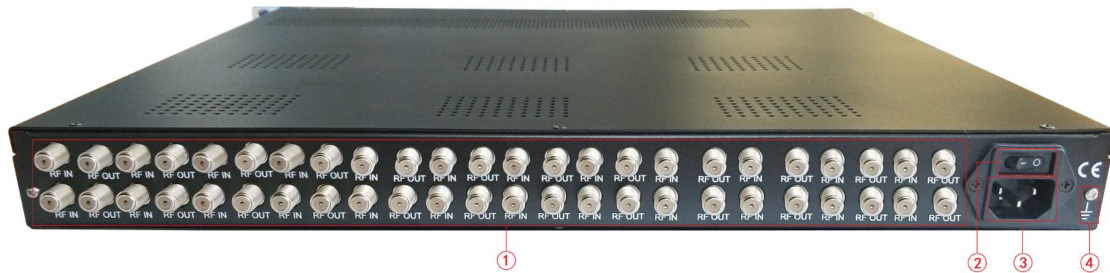
The device is connected to the input signal, connected to the power supply, and the equipment is controlled through the browser after the equipment starts normally.

Front panel



1. LCD display
2. Indicator light
3. Button
4. ASI In
5. ASI OUT
6. NMS, DATA input/output

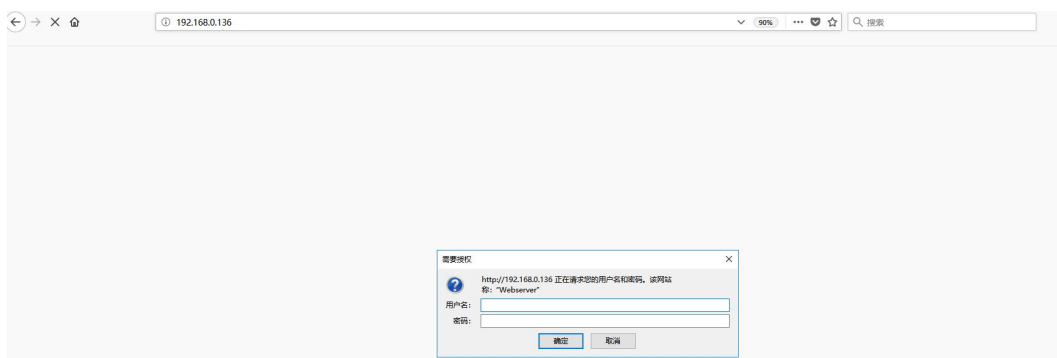
Rear panel:



1. Tuner input
2. Power switch
3. Three-core power jack
4. Grounding point

Connect the computer's internet port to the device's NMS network port, modify the computer's IP address to a fixed IP: 192.168.0.100, open the Google browser, and enter 192.168.0.136 to log in to the device management interface.

1. Enter the IP address of the device on the browse default address 192.168.0.136



2. Username and password default address admin



3. Enter the Device->Status bar to clearly detect the running status of the device

Tips:
1.close the channel when you do not use it,to increase the response of WEB

Channel	Tuner Type	Valid Bitrate	Input Signal	Config Param	Enable
9	DVBS/S2	3.969 Mbps	Quality: 99% Strength: 67%	Satellite Freq: 3840.000 M LNB Freq: 5150.000 M Symbolrate: 27500 Ksps	✓ Edit
10	DVBS/S2	3.969 Mbps	Quality: 99% Strength: 67%	Satellite Freq: 3840.000 M LNB Freq: 5150.000 M Symbolrate: 27500 Ksps	✓ Edit
11	DVBS/S2	3.969 Mbps	Quality: 99% Strength: 69%	Satellite Freq: 3840.000 M LNB Freq: 5150.000 M Symbolrate: 27500 Ksps	✓ Edit
12	DVBS/S2	3.969 Mbps	Quality: 99% Strength: 69%	Satellite Freq: 3840.000 M LNB Freq: 5150.000 M Symbolrate: 27500 Ksps	✓ Edit

4. Tuner Parameter setting

- Tuner Parameter click Edit Set parameters

CH 1 Config

Satellite Frequency: 3840.000 MHz
 LNB Frequency: 5150.000 MHz
 Symbolrate: 27500 Ksps
 LNB Voltage: 0 V
 22K: Off
 Satellite: 1

Apply Close

- Click“ ”undown“ ”to“ ”(meaning that the input channel is turned off and the unused input channel should be turned off)

5. Program Mux

TS MUX

RF Output 1 Program Mux TS Config PID Pass

IP Input

Input window information

Output window information

For input, output window, refresh, Mux, delete and other functional operations

- Select the frequency setting port for Mux program

Multiplex program step

1. select which frequency point to multiplex the program at

2. Click Analyzing program information of the input channel

Or select any input port Such as tuner / ASI / IP ,click Analyzing program information of the channel

3. Select programs under any input port Tick the box

4. Click“ ” Multiplexing programs into the selected frequency point list

2. IP input by adding IP information

1. Delete program step

2. Select which frequency point to multiplex the program at

3. In the output window Remove the box in front of the program name

click“ ” Cancel the reuse of programs

3. In the output window, at frequency point, click the program name and pop up the following window to modify the parameters of the program

The screenshot shows the 'TS MUX' configuration window with the following sections:

- Stream**: PAT Insert, BAT Insert, CAT Insert, TDT Insert, TS ID (1), PCR Correct (checked), SDT Insert, Share BAT, PMT Insert, TOT Insert, ON ID (1), PCR Correct BW (1).
- NIT**: NIT Insert (Web insert), Private Data (checked, 0x00000000), Network Name (network-1), Version Number (3), Network ID (1), Version Mode (Automatic).
- IPTV Sync(SPTS)**: IPTV Sync (checked), Sync Period (300) Sec.

Index	TS ID	ON ID	Frequency
1	1	1	474.000 MHz
2	1	1	450.000 MHz

Buttons: Apply

4. TS Config parameters

5. PID Pass parameters

The screenshot shows the 'PID Pass' configuration window with the following sections:

- PID Pass**: Index, Input Channel, Input PID(0x), Output PID(0x), Add (+), Remove (-).

Buttons: Set, Del-All

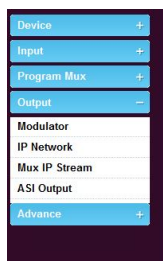
6. Output->Network Network communication parameters of equipment

The screenshot shows the 'NETWORK' configuration window with the following sections:

- NMS**: IP Address (192.168.0.136), Subnet Mask (255.255.255.0), Gateway (192.168.0.1), Web Manage Port (80), MAC Address (60:20:17:04:02:18).
- DATA-1**: IP Address (192.168.2.136), Subnet Mask (255.255.255.0), Gateway (192.168.2.1), MAC Address (60:30:17:04:02:18).

Buttons: Apply

7. Output->Mux IP Stream



MUX IP STREAM

General:

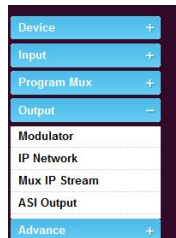
Protocol:

Pkt Length:

Channel Info.(Alarm/Active/Total): 0/1/1

Channel	Address	Port	Enable	Null PKT Filter	Source TS	Bit(Act/Max)	Edit ALL
1	<input type="text" value="224.2.2.2"/>	<input type="text" value="2001"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="RF 1"/>	16.2/31.2 M	

8. Output->ASI Output

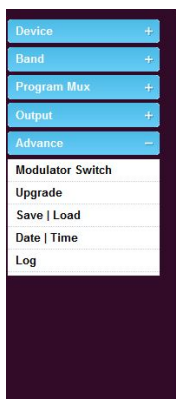


ASI OUTPUT

Channel Info.(Alarm/Active/Total): 0/2/2

Channel	Source TS	Valid Bitrate	Total Bitrate
1	<input type="text" value="MPTS OUT 1"/>	8.0 Mbps	60.0 Mbps
2	<input type="text" value="MPTS OUT 1"/>	22.0 Mbps	31.2 Mbps

9. Equipment upgrade



FIRMWARE

Tips:

1. Please get firmware (Software.pkg /OS.pkg/Hardware.bin) from the manufacturer, do not make any changes, choose firmware to upgrade.
2. Do not turn off the power when the equipment is upgraded. Otherwise the equipment will be damaged.
3. When the upgrade is successful, you need to reboot the machine and the new firmware will work.
4. upgrade Software.pkg/Hardware.bin will keep about 10 seconds.
5. upgrade OS.pkg will keep about 1 minutes.
6. Upgrading requires a very stable network and advises against connecting to the Internet.

Software Version: 0.0019

Hardware Version: 1.2.0.0

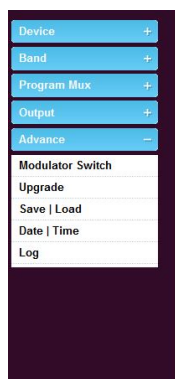
OS: 1.26.1.69C

Modulator Type:

Mod Select:

File:

10. Save Menu



CONFIGURATION

When you change the parameter, you should save configuration, otherwise the new configuration will be lost after reboot.

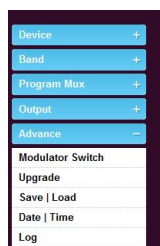
CLEAR CONFIG

Clear current configuration File. Reboot the device, device will enter factory mode.

11. Date/time No operation, only test



12. State information monitoring No operation, only test



DATE | TIME

1970-01-01 18:17:29

Timezone:

NTP Server 1:

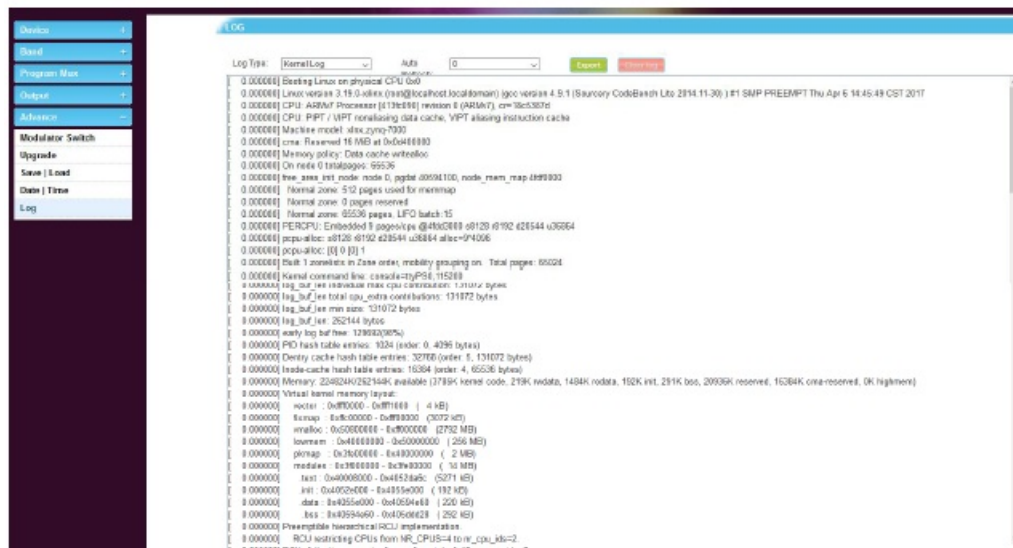
NTP Server 2:

NTP Server 3:

NTP Server 4:

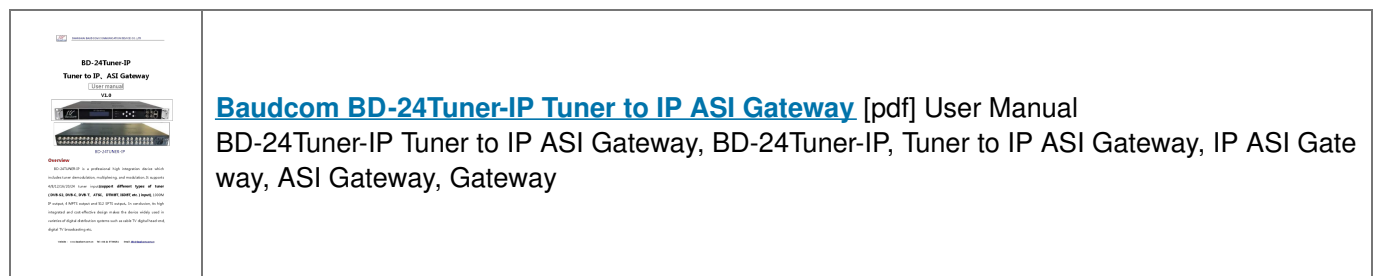
NTP Server 5:

13. After the device parameter is modified, it must be saved so as not to set the device parameter again after the power is off



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way, ASI Gateway, Gateway

References