

PRODUCT MODEL NUMBER: TL-9994C 16-in-1 MUX-SCRAMBLING QAM MODULATOR



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CHAPTER 1

INTRODUCTION

1.1 PRODUCT OVERVIEW

TL-9994C is a high performance and cost-effective QAM modulator designed by TRANSLITE. It supports 16 DVB-C (DVB-T/-T2/-S/-S2/S2X, ATSC, ISDB-T Optional) FTA tuner input, maximum 512 IP input through GE1 and TS input for re-mux through 2 ASI ports. After multiplexing, scrambling and QAM modulating, it gives 16 non-adjacent carriers output and 1 IP (MPTS) output through GE1.

TL-9994C is also characterized with high integrated level, high performance and low cost. It supports dual power supply (optional). This is very adaptable to new generation CATV broadcasting system.

1.2 KEY FEATURES

- 16 DVB-C (DVB-T/-T2/-S/-S2/-S2X, ATSC, ISDB-T Optional) FTA Tuner + 2 ASI input+512 IP input thru GE1 over UDP and RTP protocol
- 16*DVB-C RF output
- 1 IP (MPTS) output over UDP and RTP/RTSP, as mirror of one carrier
- Support 16 groups multiplexing+16 groups scrambling +16 groups QAM modulating
- Excellent RF output performance index, MER≥40db
- Support accurate PCR adjusting
- Support PSI/SI editing and inserting
- Support Web management, Updates via web
- Redundancy Power Supply (optional)

1.3 SPECIFICATIONS

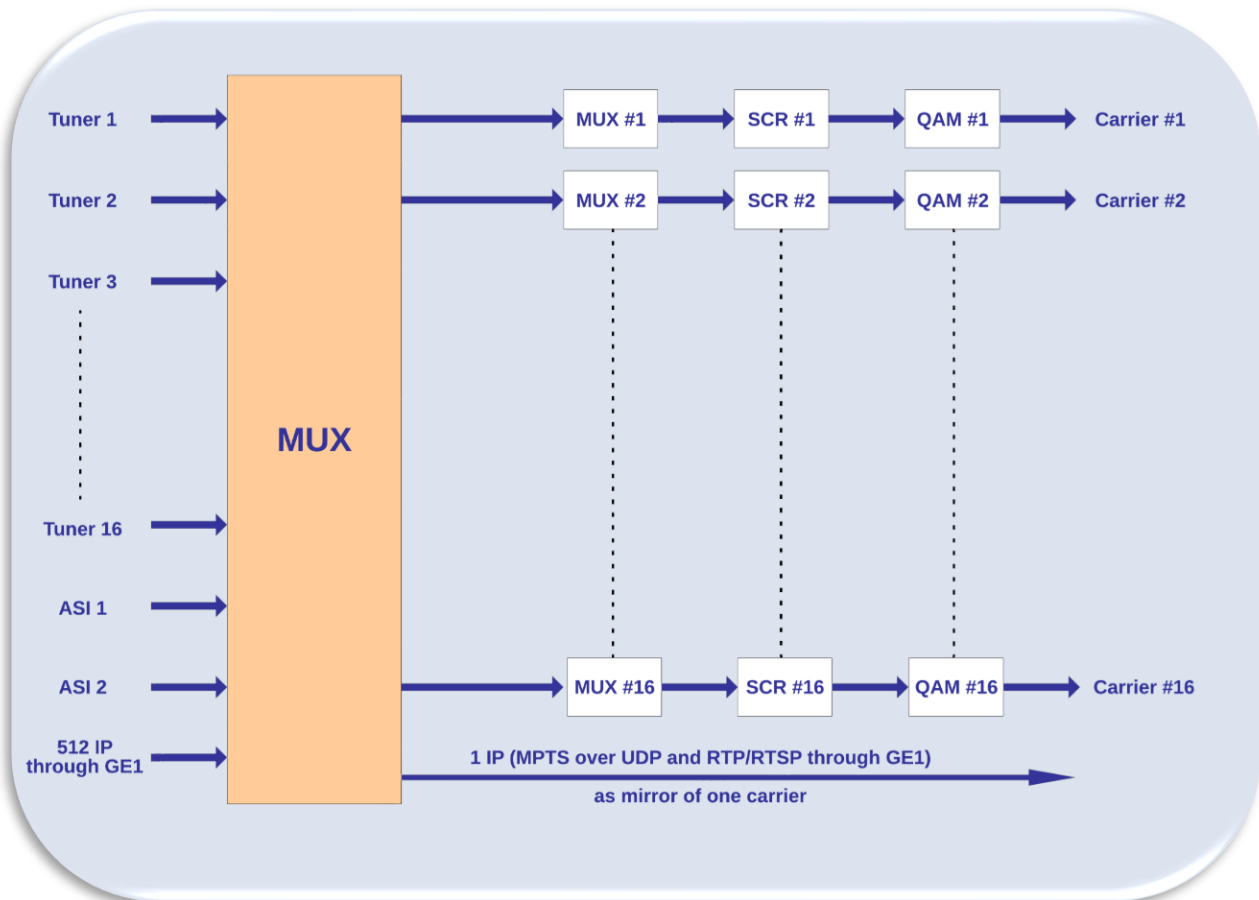
Input			
16 DVB-C (DVB-T/-T2/-S/-S2/-S2X, ATSC, ISDB-T Optional) FTA Tuner			
512 IP input through GE1 over UDP and RTP protocol			
2 ASI input, BNC interface			
Tuner Section			
Multi-mode tuners switchable	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C
		Frequency In	60~890MHz
		Constellation	16/32/64/128/256 QAM
	DVB-T/T2	Frequency In	60~890MHz
		Bandwidth	6/7/8 M bandwidth
	ISDB-T	Frequency In	60~890MHz
Version 1	DVB-S/S2	Frequency In	950~2150MHz
		Symbol rate	QPSK 1~45Mbauds 8PSK 1~45Mbauds
		Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
		Constellation	QPSK, 8PSK
Version 2 (New)	DVB-S	Frequency In	950~2150MHz
		Symbol rate	0.5~45Msps
		Signal Strength	- 65~-25dBm
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
		Constellation	QPSK
		Max input bitrate	≤129 Mbps
	DVB-S2	Frequency In	950~2150MHz
		Symbol rate	QPSK/8PSK /16APSK: 0.5~45 Msps 32APSK: 0.5~40Msps;

		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10
		Constellation	QPSK, 8PSK, 16APSK, 32APSK
		Max input bitrate	≤129 Mbps
		Frequency In	950-2150MHz
	DVB-S2X	Symbol rate	QPSK/8PSK /16APSK: 0.5~45 Msps 8APSK/32APSK: 0.5~40Msps
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 8APSK: 5/9-L, 26/45-L 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9, 77/90 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10, 2/3-L, 32/45, 11/15, 7/9
		Constellation	QPSK, 8PSK, 8APSK, 16APSK, 32APSK
		Max input bitrate	≤129 Mbps
		Frequency In	30~1000MHz
	ATSC	Bandwidth	6M
		Constellation	8VSB

Multiplexing		
Maximum PID Remapping	360 output per channel	
Function	PID remapping (automatically or manually)	
	Accurate PCR adjusting	
	Generate PSI/ SI table automatically	
Scrambling Parameters		
Max simulscrypt CA	4	
Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197	
Connection	Local/remote connection	
Modulation		
QAM Channel	16 non-adjacent carriers output	
Standard	EN300 429/ITU-T J.83A/B	
MER	≥40db	
RF frequency	50~960MHz, 1KHz step	
RF output level	-20~+10dbm(87~107 dbμV),0.1db step	
Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping	
Constellation	J.83A	J.83B
	16/32/64/128/256QAM	64/256 QAM
Bandwidth	8M	6M
Stream Output		
16 RF output (F type interface)		
1 IP (MPTS) output over UDP and RTP/RTSP (GE1 only), as mirror of one carrier		
System Function		
Network management (WEB)		
English language		
Ethernet software upgrade		

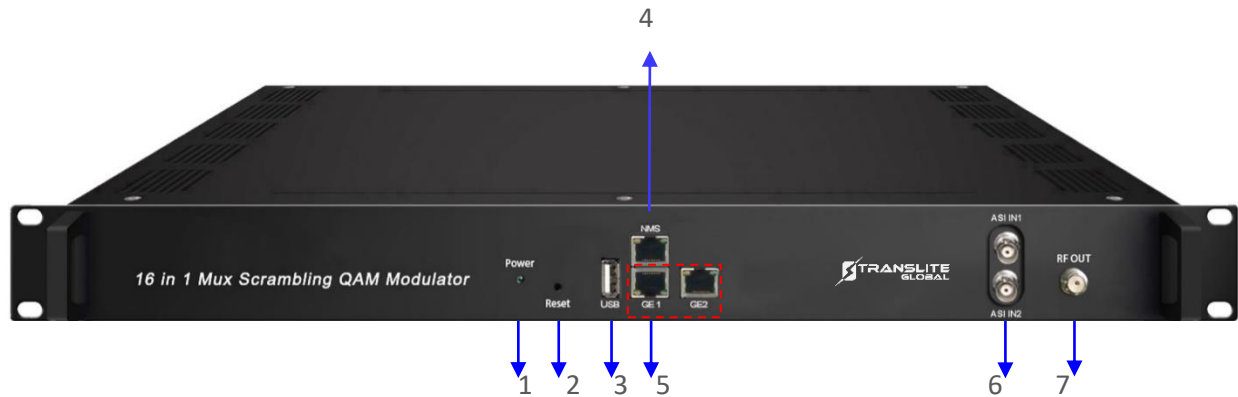
General	
Dimension(W*D*H)	482mm×300mm×44.5mm
Temperature	0~45°C(Operation); -20~80°C(Storage)
Power	AC 100V±1050/60Hz; AC 220V±10%, 50/60HZ

1.4 PRINCIPLE CHART



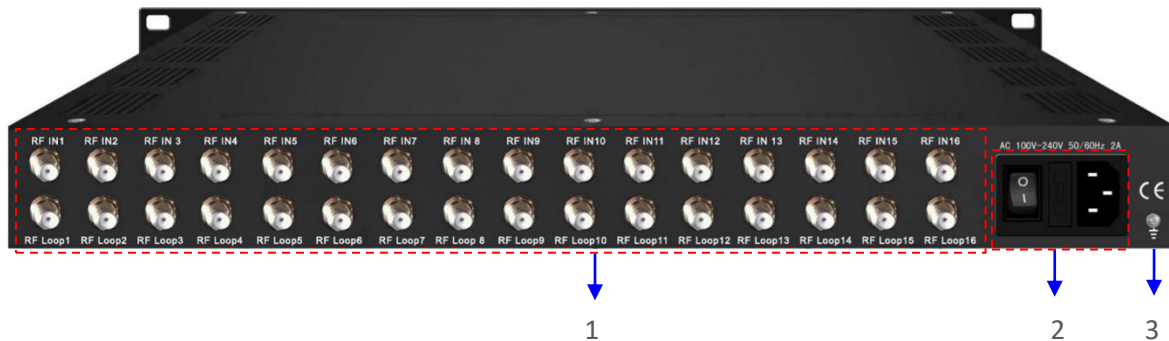
1.5 APPEARANCE AND DESCRIPTION

Front Panel Illustration



1	Power indicator
2	Reset: Reset webmaster IP address, recover it to default IP address
3	USB port for upgrade
4	NMS port: Network management interface
5	Data port: GE1: IP input and output port GE2: reserved for future
6	ASI input port
7	RF out port

Rear Panel Illustration



1	16 channels RF IN Interface
2	Integrated power switch and socket
3	Grounding Wire

CHAPTER 2

INSTALLATION GUIDE

This section is to explain the cautions the users must know in some case that possibly injure may bring to users when it's used or installed. For this reason, please read all details here and make in mind before installing or using the product.

2.1 ACQUISITION CHECK

When user opens the package of the device, it is necessary to check items according to packing list. Normally it should include the following items:

- TL-9994C 16 in 1 Mux-Scrambling QAM Modulator
- User's Manual
- Power Cord

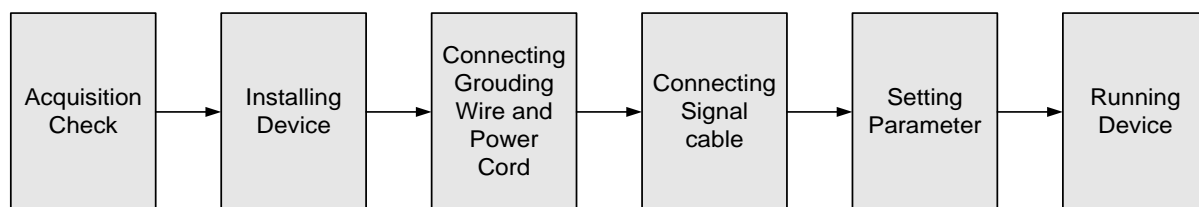
2.2 INSTALLATION PREPARATION

When users install device, please follow the below steps. The details of installation will be described at the rest part of this chapter. Users can also refer rear panel chart during the installation.

The main content of this chapter including:

- Checking the possible device missing or damage during the transportation
- Preparing relevant environment for installation
- Installing modulator
- Connecting signal cables
- Connecting communication port (if it is necessary)

2.3 DEVICE'S INSTALLATION FLOW CHART ILLUSTRATED AS FOLLOWING



2.4 ENVIRONMENT REQUIREMENT

Item	Requirement
Machine Hall Space	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be 1.2~1.5m and the distance against wall should be no less than 0.8m.
Machine Hall Floor	Electric Isolation, Dust Free Volume resistivity of ground anti-static material: $1 \times 10^7 \sim 1 \times 10^{10} \Omega$, Grounding current limiting resistance: $1 M\Omega$ (Floor bearing should be greater than 450 Kg/m^2)
Environment Temperature	$5 \sim 40^\circ\text{C}$ (sustainable), $0 \sim 45^\circ\text{C}$ (short time) installing air-conditioning is recommended
Relative Humidity	20%~80% sustainable 10%~90% short time
Pressure	$86 \sim 105 \text{ KPa}$
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window
Wall	It can be covered with wallpaper, or brightness less paint.
Fire Protection	Fire alarm system and extinguisher
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC $110\text{V} \pm 10\%$, 50/60Hz or AC $220\text{V} \pm 10\%$, 50/60Hz. Please carefully check before running.

2.5 GROUNDING REQUIREMENT

- All function modules' good grounding is the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.
- Coaxial cables outer conductor and isolation layer should keep proper electric conducting with the metal housing of device.

- Grounding conductor must adopt copper conductor in order to reduce high frequency impedance, and the grounding wire must be as thick and short as possible.
- Users should make sure the 2 ends of grounding wire well electric conducted and be antirust.
- It is prohibited to use any other device as part of grounding electric circuit
- The area of the conduction between grounding wire and device's frame should be no less than 25mm².

2.5.1 FRAME GROUNDING

All the machine frames should be connected with protective copper strip. The grounding wire should be as short as possible and avoid circling. The area of the conduction between grounding wire and grounding strip should be no less than 25mm².

2.5.2 DEVICE GROUNDING

Connecting the device's grounding rod to frame's grounding pole with copper wire.

2.6 WIRE'S CONNECTION

The grounding wire conductive screw is located at the right end of rear panel, and the power switch, fuse, power supply socket is just beside, whose order goes like this, power switch is on the left, power supply socket is on the right and the fuse is just between them.

- Connecting Power Cord

User can insert one end into power supply socket, while insert the other end to AC power.

➤ **Connecting Grounding Wire**

When the device solely connects to protective ground, it should adopt independent way, say, share the same ground with other devices. When the device adopts united way, the grounding resistance should be smaller than 1Ω .

⚠ **Caution:**

Before connecting power cord to TL-9994C 16 in 1 Mux-Scrambling QAM Modulator, user should set the power switch to “OFF”.

2.7 SIGNAL CABLE CONNECTION

The signal connections include the connection of input signal cable and the connection of output signal cable. The details are as follows:

TL-9994C 16 in 1 Mux-Scrambling QAM Modulator Cable Illustration:

➤ **NMS Cable illustration (CAT5):**



➤ **RF Input/Loop Cable Illustration:**



➤ **ASI input cable illustration:**



CHAPTER 3

WEB BASED NMS MANAGEMENT

Users cannot use front buttons to set configuration, can only control and set the configuration in computer by connecting the device to web NMS Port. Users should ensure that the computer's IP address is different from the TL-9994C's IP address; otherwise, it would cause IP conflict.

3.1 LOGIN

The default IP address of this device is 192.168.0.136.

Connect the PC (Personal Computer) and the device with net cable, and use ping command to confirm they are on the same network segment.

I.G. the PC IP address is 192.168.99.252, we then change the device IP to 192.168.99.xxx (xxx can be 1 to 254 except 252 to avoid IP conflict).

Use web browser to connect the device with PC by inputting the Modulator's IP address in the browser's address bar and press Enter.

It will display the Login interface. Input the Username and Password (Both are defaulted as "admin".) and then click "LOGIN" to start the device setting.

3.2 OPERATION

When we confirm the login, it displays the WELCOME interface as Figure-2 where users can have an overview of the device's system information and working status.

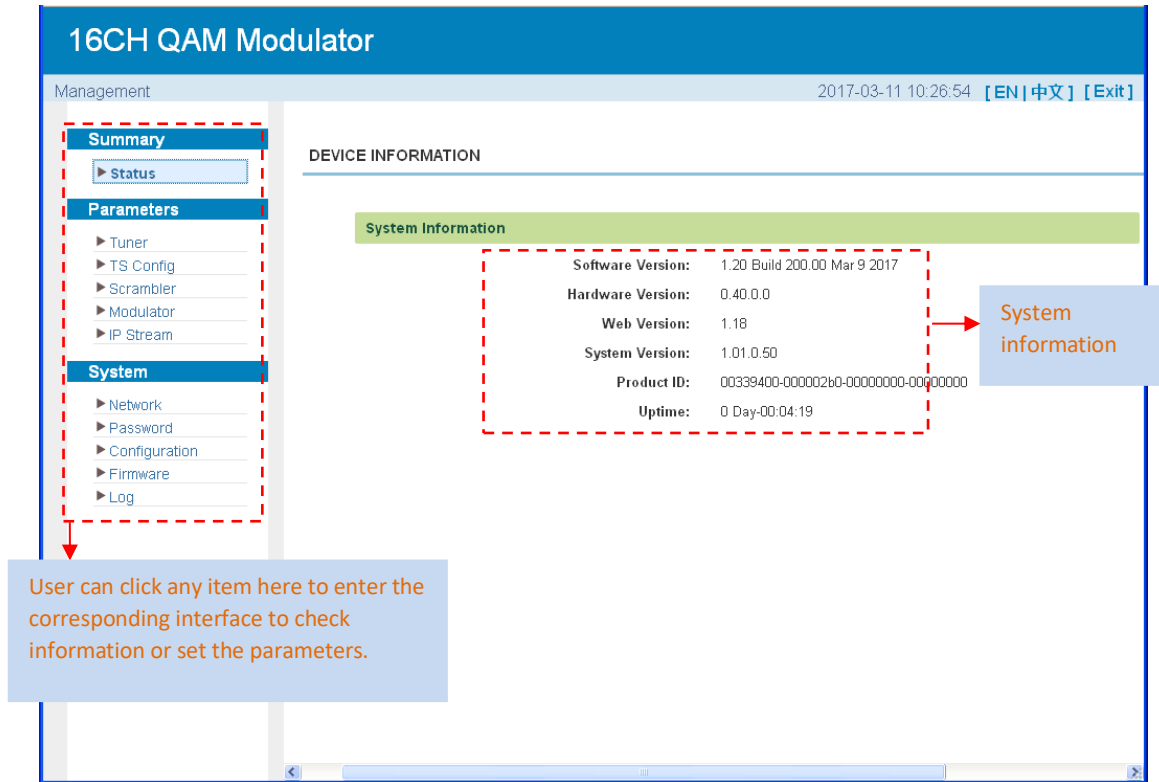


Figure-2

Parameters → Tuner 1-16

TL-9994C support 16 DVB-S/S2 (DVB-T/T2/C, ATSC, ISDB-T optional) Tuner input. From the menu on left side of the webpage, clicking "Tuner1-16", it displays the information of each encoding channel as Figure-3.

16CH QAM Modulator

use Web Management

2017-03-11 10:27:26 [EN|中文] [Exit]

Summary

Status

Parameters

Tuner

TS Config

Scrambler

Modulator

IP Stream

System

Network

Password

Configuration

Firmware

Log

TUNER CONFIGURATION

#	Tuner	TS Lock	Signal	Param	Action
1	DVBS/S2	21.653 Mbps	Quality: 39% Strength: 82%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
<div>CH 1 Config</div> <div> <div>Satellite Frequency: 3840.000 MHz</div> <div>LNB Frequency: 5150.000 MHz</div> <div>Symbolrate: 27500 Ksps</div> <div>LNB Voltage: V(13V)</div> <div>22K: On</div> <div>Satellite: 1 (1-8)</div> </div> <div>Apply Close</div>					
6	DVBS/S2	23.432 Mbps	Quality: 41% Strength: 78%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
7	DVBS/S2	23.432 Mbps	Quality: 42% Strength: 86%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
8	DVBS/S2	23.625 Mbps	Quality: 42% Strength: 80%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
9	DVBS/S2	23.625 Mbps	Quality: 42% Strength: 68%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
10	DVBS/S2	23.625 Mbps	Quality: 42% Strength: 74%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
11	DVBS/S2	0.000 Mbps	Quality: 0% Strength: 0%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
12	DVBS/S2	0.000 Mbps	Quality: 0% Strength: 0%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
13	DVBS/S2	0.000 Mbps	Quality: 0% Strength: 0%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
14	DVBS/S2	0.000 Mbps	Quality: 0% Strength: 0%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
15	DVBS/S2	0.000 Mbps	Quality: 0% Strength: 0%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit
16	DVBS/S2	0.000 Mbps	Quality: 0% Strength: 0%	Satellite Freq: 3840.000 MHz LNB Freq: 5150.000 MHz symbolrate: 27500 Ksps	Edit

Figure-3

Parameters → TS Config:

From the menu on left side of the webpage, clicking “TS Config”, it displays the interface where users can configure the TS output parameters.

➤ TS Config→Output TS:

From the menu on top side of the webpage, clicking “Output TS X”, it displays the interface where users can select output TS channel. (Figure-4)

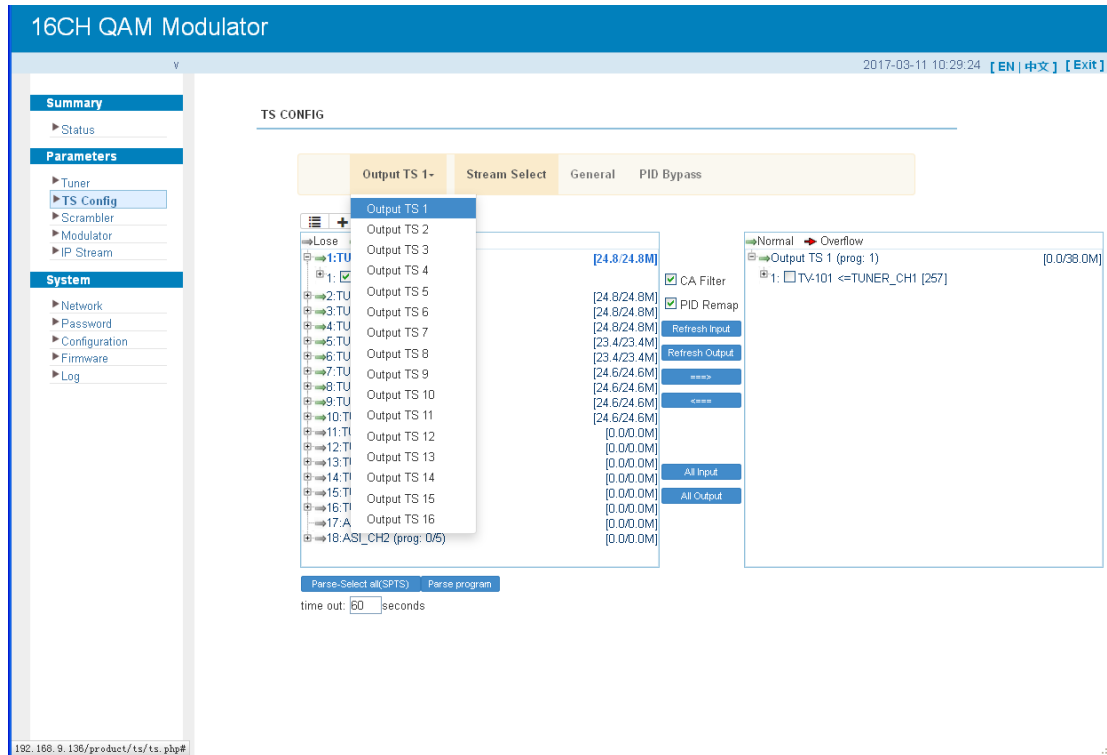


Figure-4

➤ TS Config→Stream select:

Clicking “Stream select”, it displays the interface where users can select program(s) to multiplex out and modify program info. (Figure-5)

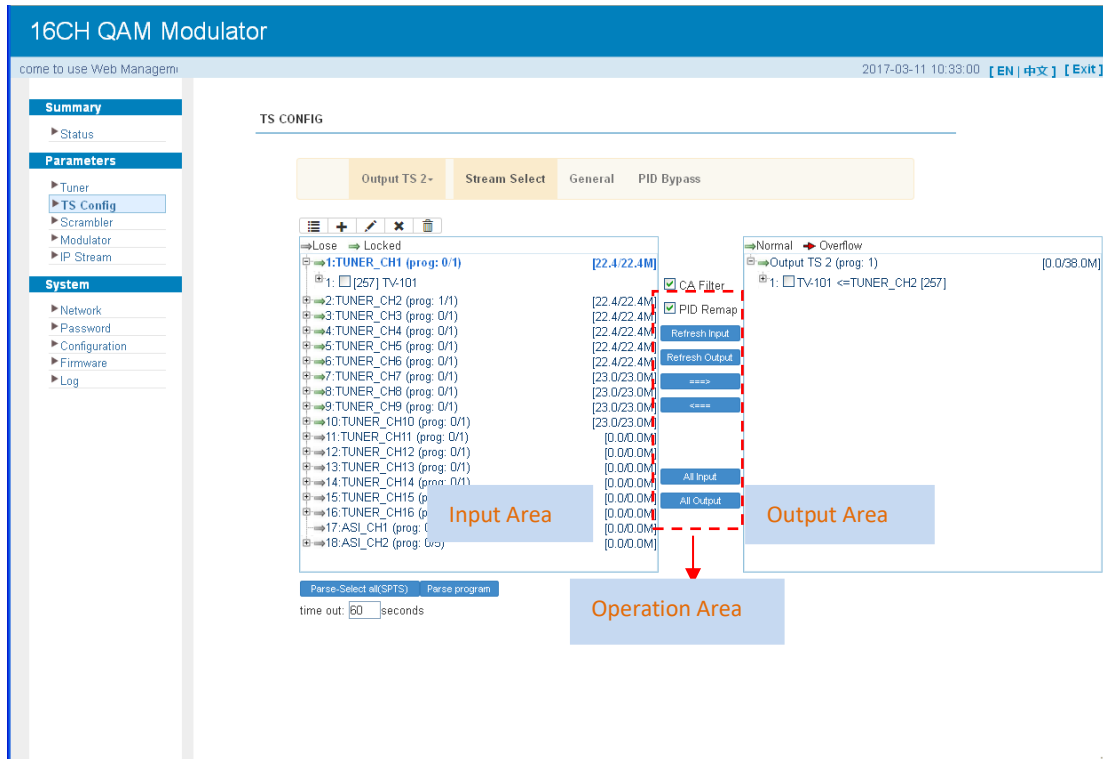


Figure-5

Configure 'Input Area' and 'Output Area' with buttons in 'Operation Area'. Instructions are as below:



 : To add input channel which come from GE1

 : To edit the input channel

 : To delete the input channel

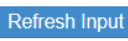
 : To delete all inputs channel

  : To check input IP lock or not, green means current IP locked

  : To check current TS overflow or not, red color means current TS overflow, need to reduce program

☒ CA Filter : To filter/not filter the source CA information

☒ PID Remap : To enable/disable the PID remapping

 To refresh the input program information

Refresh Output To refresh the output program information

====> Select one input program first and click this button to transfer the selected program to the right box to output.

<=== Similarly, user can cancel the multiplexed programs from the right box.

All Input To select all the input programs

All Output To select all the output programs

Parse program To parse programs time limitation of parsing input programs

➤ Program Modification:

The multiplexed program information can be modified by clicking the program in the 'output' area. For example, when clicking [Ⓓ]1. ☐ TV-101 <=TUNER_CH2 [257] , it triggers a dialog box (Figure 6) where users can input new information.

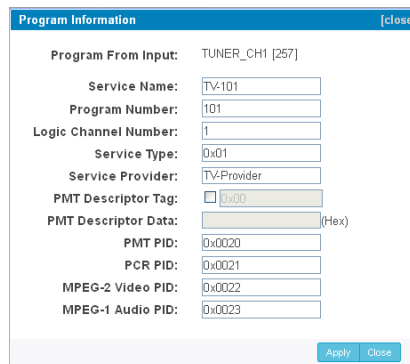
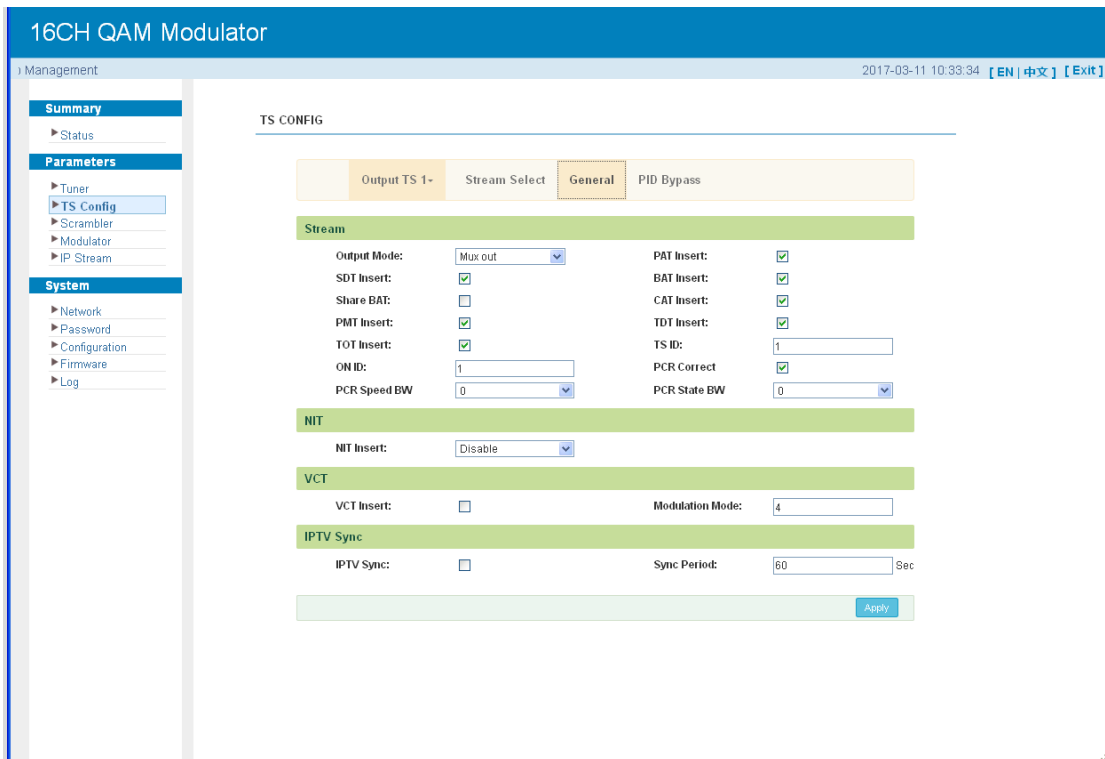


Figure-6

➤ TS Config→General:

From the TS Config menu on up side of the webpage, clicking "General", it displays the interface where users can set output mode, enable PSI/SI table out, NIT insert/VCT insert, PCR correction. (Figure-7)

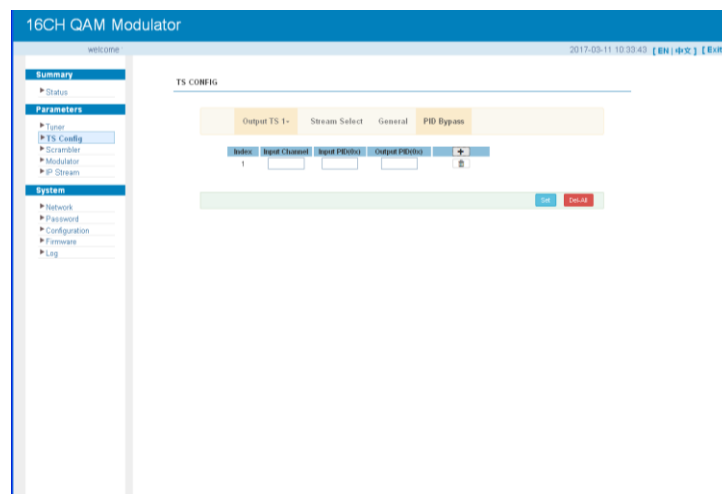


The screenshot shows the '16CH QAM Modulator' web interface. The left sidebar contains a 'Summary' section with 'Status' and 'Parameters' (Tuner, TS Config, Scrambler, Modulator, IP Stream), and a 'System' section with 'Network', 'Password', 'Configuration', 'Firmware', and 'Log'. The main area is titled 'TS CONFIG' and has four tabs: 'Output TS 1-', 'Stream Select', 'General' (selected), and 'PID Bypass'. The 'General' tab contains several configuration sections: 'Stream' with fields for Output Mode (Mux out), SDT Insert (checked), Share BAT (unchecked), PMT Insert (checked), TOT Insert (checked), ON ID (1), PCR Speed BW (0), PAT Insert (checked), BAT Insert (checked), CAT Insert (checked), TDT Insert (checked), TS ID (1), PCR Correct (checked), and PCR State BW (0); 'NIT' with NIT Insert (Disable); 'VCT' with VCT Insert (unchecked) and Modulation Mode (4); and 'IPTV Sync' with IPTV Sync (unchecked) and Sync Period (60 Sec). An 'Apply' button is at the bottom right.

Figure-7

➤ TS Config→PID Bypass:

Clicking “PID Bypass”, it displays the interface as Figure-8 where user can add PIDs to be passed, click the “+” symbol, input current IP channel number, then input current IP source PID and output PID which is customer needed, then click “set” to apply the parameters.



The screenshot shows the '16CH QAM Modulator' web interface with the 'PID Bypass' tab selected. The interface features a table with columns: 'Index', 'Input Channel', 'Input PID', and 'Output PID'. Below the table is a '+ ' button to add new entries. At the bottom of the table area are 'Set' and 'Cancel' buttons.

Figure-8

Parameters → Scrambler:

From the menu on left side of the webpage, clicking “Scrambler”, it displays the interface where users can choose the programs to scramble (Figure-9).

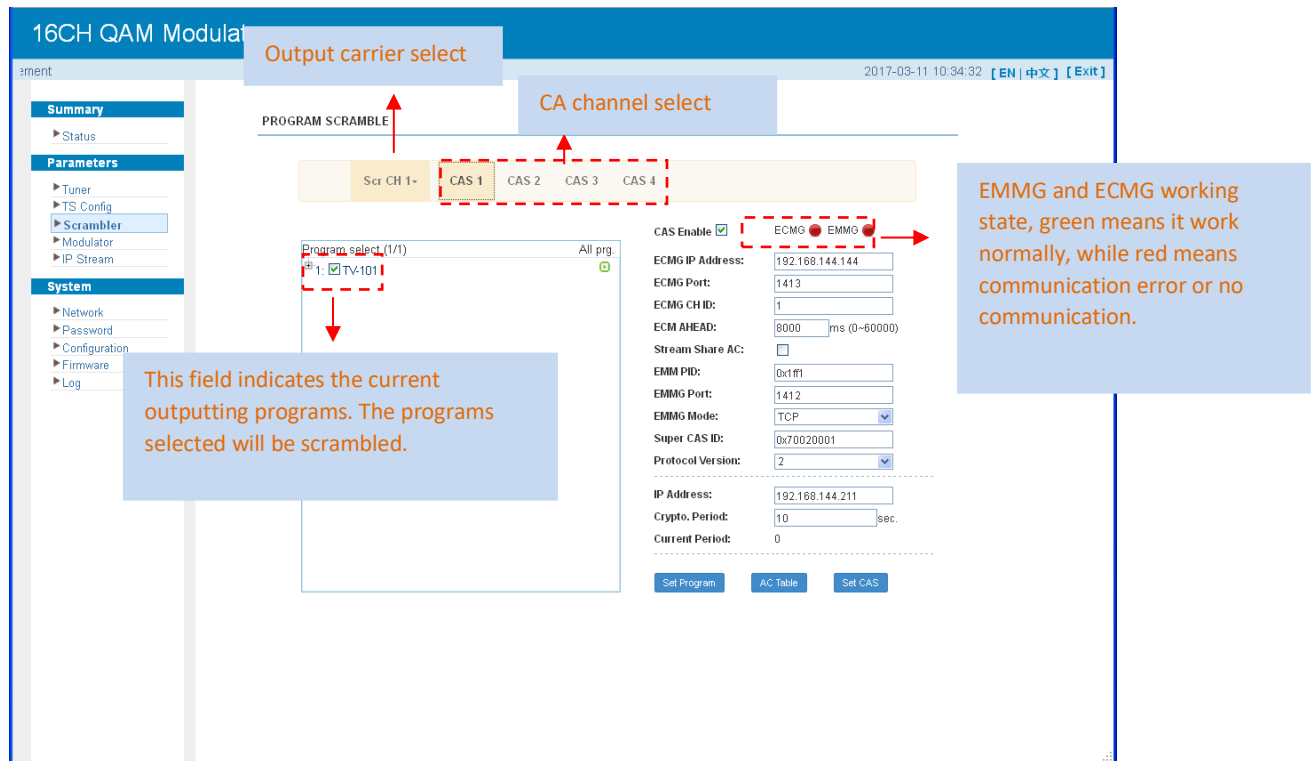


Figure-9

Parameters → Modulator:

From the menu on left side of the webpage, clicking “Modulator”, it displays the Modulator Configuration screen as Figure-10. Here user can set modulation parameters.

16CH QAM Modulator

welcome to

2017-03-11 10:35:06 [EN | 中文] [Exit]

Summary

Parameters

System

MODULATOR

Center Frequency: 534.000 MHz

Level(All Carriers): 0.0 dBm

Standard: J.83A(DVB-C)

Channel Info.(Alarm/Active/Total): 0/16/16

Channel	Frequency	Constellation	Symbol Rate	Gain offset	Status	Bit(Act/Max)	
1	474.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
2	482.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
3	490.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
4	498.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
5	506.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
6	514.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
7	522.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
8	530.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
9	538.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
10	546.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
11	554.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
12	562.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
13	570.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
14	578.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.0/38.0 M	
15	586.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.1/38.0 M	
16	594.000 MHz	64 QAM	6875 Ksps	0.0 dB		0.1/38.0 M	

Quickly Config

Channel Config

Figure-11

When users click “quickly config” button, it triggers a dialog box as follow where users can set all channels configuration.

Quickly Config. [close]

Standard: J.83A(DVB-C)

Level(All Carriers): 0.0 (-20 ~ +10 dBm)

Channel Enable: ☒

Start Frequency: 650.000 (50 ~ 960 MHz)

Bandwidth: 8.000 MHz

Constellation: 64 QAM

Symbol Rate: 6875 (5000 ~ 7000 Ksps)

Gain offset: 0.0 (-10 ~ 0 dB)

Apply

Close

When users click “Channel config” button, it triggers a dialog box as follow where users can set the corresponding channel configuration.

Channel 1 Config.
[close]

Standard: J.83A(DVB-C)

Level(All Carriers): 0.0 (-20 ~ +10 dBm)

Channel Enable: ☒

Frequency: 650.000 (50 ~ 960 MHz)

Constellation: 64 QAM

Symbol Rate: 6875 (5000 ~ 7000 Ksps)

Gain offset: 0.0 (-10 ~ 0 dB)

Apply Close

Parameters → IP Stream:

TL-9994C supports TS to output in IP (1*MPTS) format as copy of one carrier through the DATA port.

Clicking “IP Stream”, it displays the interface where to set IP out parameters (Figure-12).

16CH QAM Modulator

welcome to use Web Manag

2017-03-11 10:36:24 [EN | 中文] [Exit]

Summary

Status

Parameters

Tuner
TS Config
Scrambler
Modulator
IP Stream

System

Network
Password
Configuration
Firmware
Log

IP STREAM

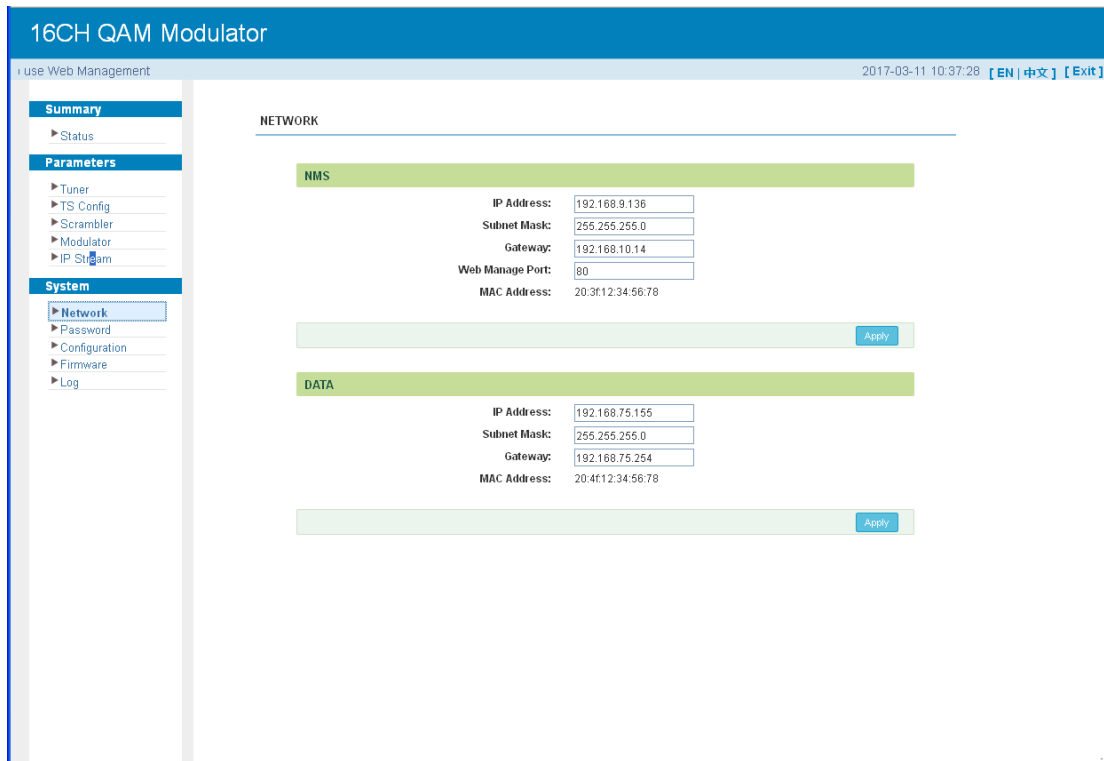
IP Address	Port	Protocol	Pkt Length	Null PKT Filter	Status	Bit(Act/Max)	ModulatorChannel
225.3.3.3	2999	RTSP/RTSP	5	<input type="checkbox"/>	●	0.1/38.0 M	15

Click here to Config IP output

Figure-12

System → Network:

Clicking “Network”, it displays the interface as Figure-13 where to set network parameters.



16CH QAM Modulator

Use Web Management 2017-03-11 10:37:28 [EN | 中文] [Exit]

Summary

- ▶ Status

Parameters

- ▶ Tuner
- ▶ TS Config
- ▶ Scrambler
- ▶ Modulator
- ▶ IP Stream

System

- ▶ **Network**
- ▶ Password
- ▶ Configuration
- ▶ Firmware
- ▶ Log

NETWORK

NMS

IP Address: 192.168.9.136

Subnet Mask: 255.255.255.0

Gateway: 192.168.10.14

Web Manage Port: 80

MAC Address: 20:3f:12:34:56:78

Apply

DATA

IP Address: 192.168.75.155

Subnet Mask: 255.255.255.0

Gateway: 192.168.75.254

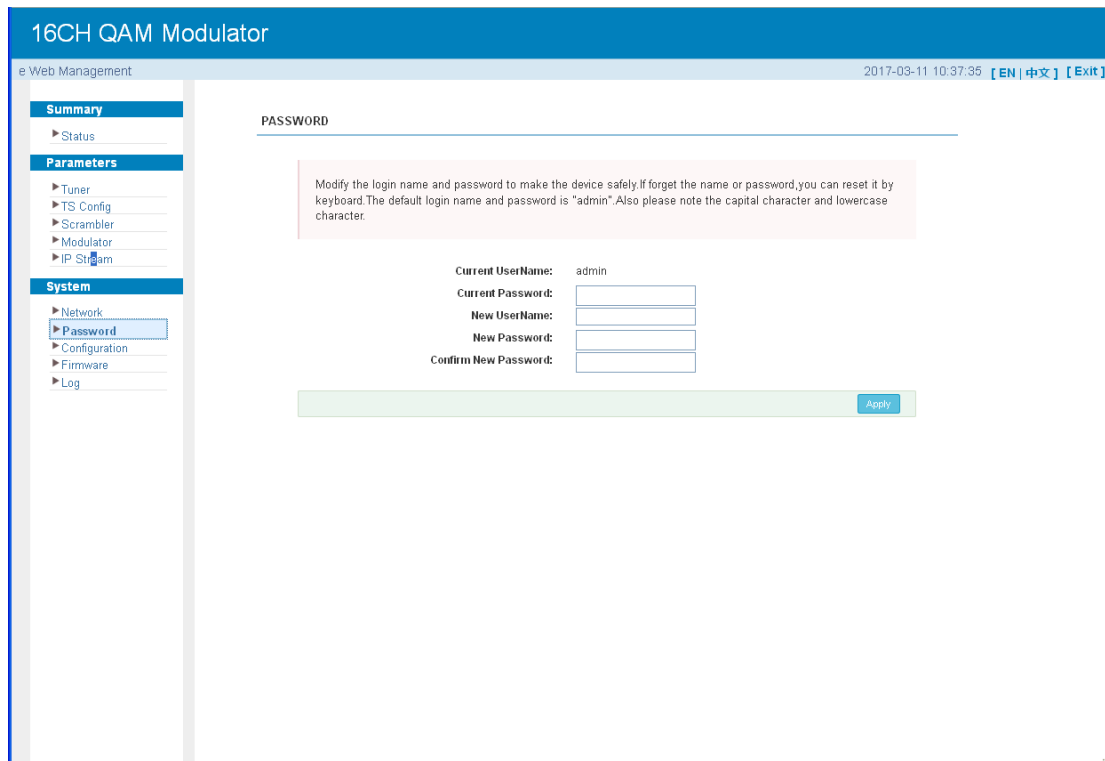
MAC Address: 20:4f:12:34:56:78

Apply

Figure-13

System → password

From the menu on left side of the webpage, clicking “Password”, it displays the screen as Figure-14 where to set the login account and password for the web NMS.



16CH QAM Modulator

e Web Management 2017-03-11 10:37:35 [EN | 中文] [Exit]

Summary

- ▶ Status

Parameters

- ▶ Tuner
- ▶ TS Config
- ▶ Scrambler
- ▶ Modulator
- ▶ IP Stream

System

- ▶ Network
- ▶ **Password**
- ▶ Configuration
- ▶ Firmware
- ▶ Log

PASSWORD

Modify the login name and password to make the device safely.If forget the name or password,you can reset it by keyboard.The default login name and password is "admin".Also please note the capital character and lowercase character.

Current UserName: admin

Current Password:

New UserName:

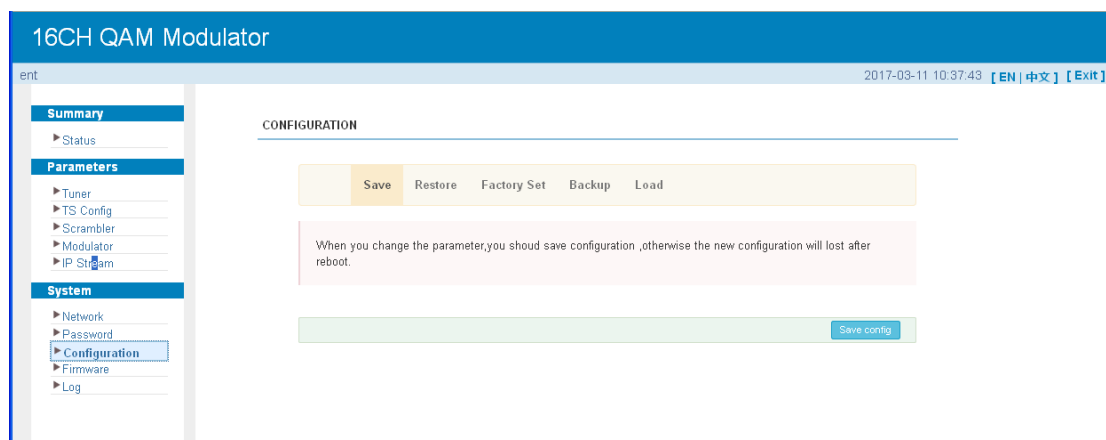
New Password:

Confirm New Password:

Figure-14

System → Configuration:

From the menu on left side of the webpage, clicking “Configuration”, it will display the screen as Figure-15 where to save/restore/factory setting/backup/load your configurations.



16CH QAM Modulator

ent 2017-03-11 10:37:43 [EN | 中文] [Exit]

Summary

- ▶ Status

Parameters

- ▶ Tuner
- ▶ TS Config
- ▶ Scrambler
- ▶ Modulator
- ▶ IP Stream

System

- ▶ Network
- ▶ Password
- ▶ **Configuration**
- ▶ Firmware
- ▶ Log

CONFIGURATION

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

Figure-15

System → Firmware:

From the menu on left side of the webpage, clicking “Firmware”, it will display the screen as Figure-16 where to update firmware for this modulator.

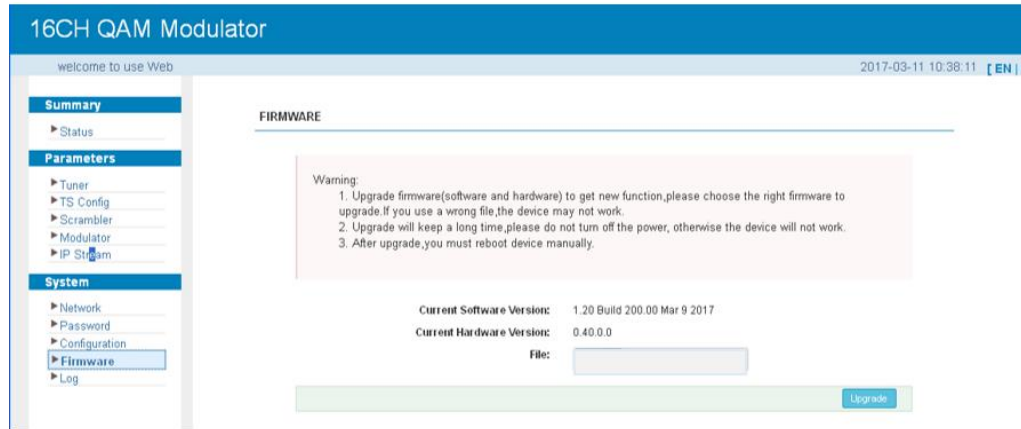


Figure-16

System→ Log:

From the menu on left side of the webpage, clicking “Log”, it will display the log interface as Figure-17 where to check or export the Kernel/System log.

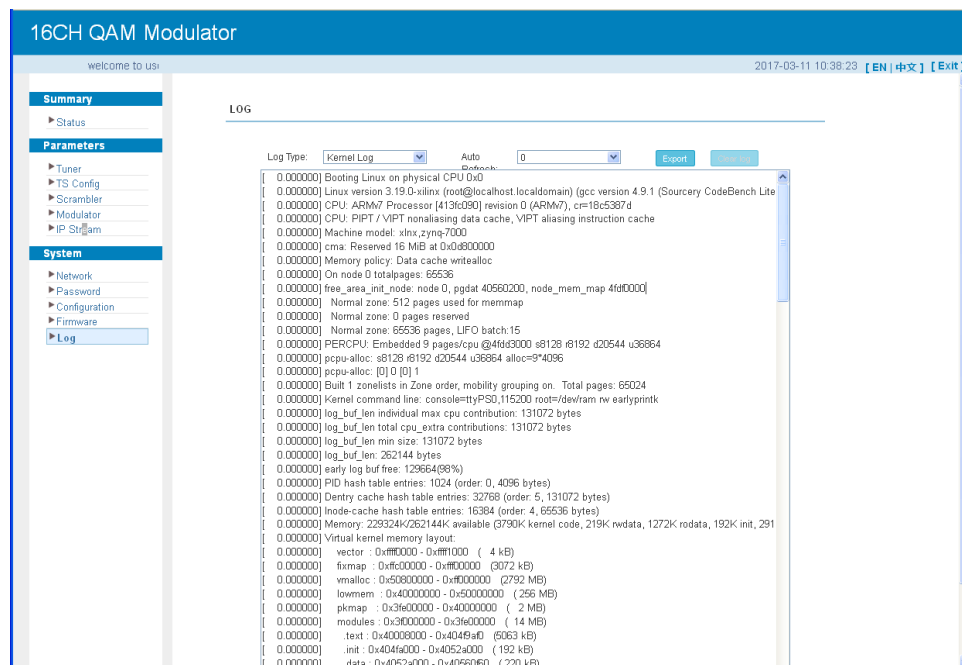


Figure-17

CHAPTER 4

TROUBLESHOOTING

All TRANSLITE products have been passed the testing and inspection before shipping out from factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by TRANSLITE. To prevent potential hazard, please strictly follow the operation conditions.

Prevention Measure

- Installing the device at the place in which environment temperature between 0 to 45 °C
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

Conditions need to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed

CHAPTER 8

PACKING LIST

TL-9994C 16-in-1 Mux-Scrambling Modulator	1PC
User's Manual	1PC
Power cord	2PCS

For Sales

North America:

sales@transliteglobal.com

Asia:

sales@translite.co.in

Rest Of The World:

sales@transliteglobal.com

For Support

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support@translite.co.in

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