ST-8802

32-Channel Digital TV Channel Filtering Optimizer/Encoder

Start Guide

v1.1

August, 2021

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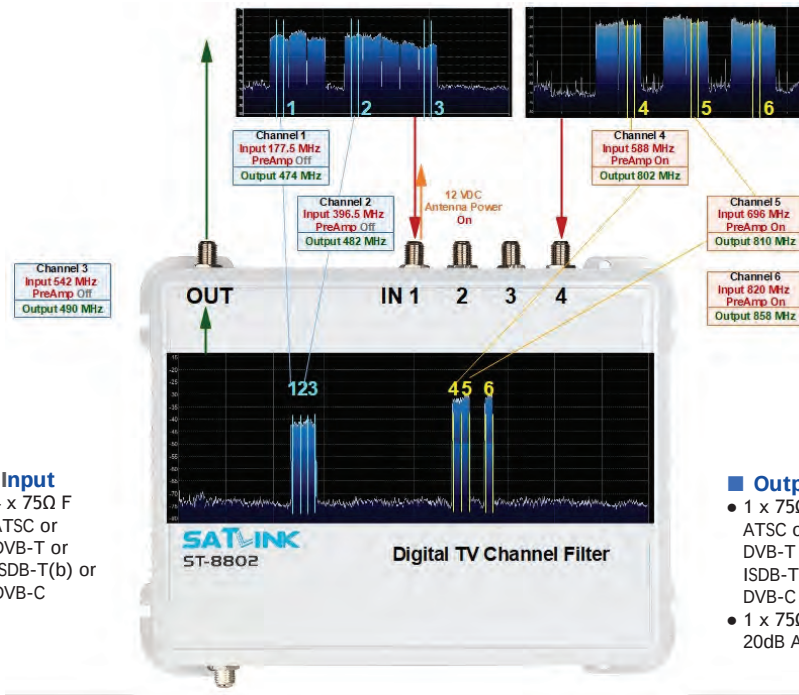
Introduction

■ Digital TV Channel Filter Captures up to 32 Terrestrial or Cable TV Channels to Deliver Multiplexed TV Signals over Coax Network



■ Input

- 4 x 75Ω F ATSC or DVB-T or ISDB-T(b) or DVB-C

■ Output

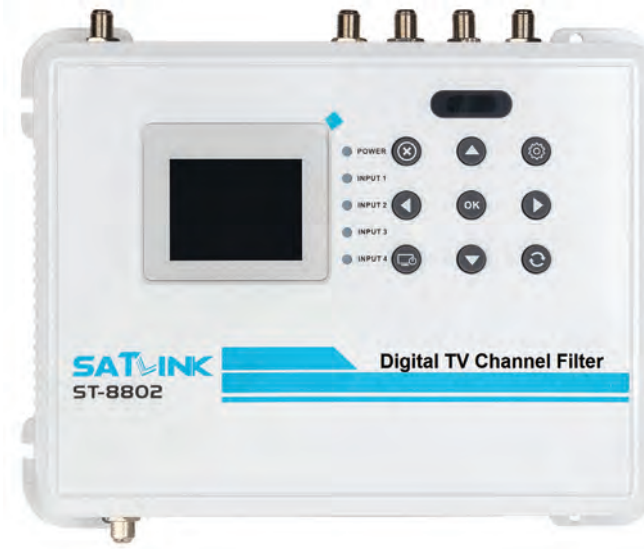
- 1 x 75Ω F ATSC or DVB-T or ISDB-T(b) or DVB-C
- 1 x 75Ω F (Test) 20dB Attenuation

ST-8802 Digital TV Channel Filter provides a solution to compose up to 32 TV channels from aerial or cable TV source to deliver amplified TV signal.

- Programmable Terrestrial TV and Cable TV channel filter, combiner, converter, equalizer and amplifier
- Capture and compose 32 TV channels to multiplex output channel plan with Automatic Gain Control (AGC)
- Support all TV standards - ATSC, DVB-T, ISDB-T(b), DVB-C with 6, 7 or 8 MHz channel bandwidth
- Compact, reliable, durable and cost-effective TV channel filter
- 4 input ports with integrated preamplifier and 12 VDC (antenna) power supply
- Adjustable output power level between 33 and 53 dBmV to drive signal coverage of multiple TVs

The operation of ST-8802 is intuitive by using on-panel keypad and 2.4" color LCD screen.

Overview



Operation Panel

- 2.4" color LCD
- Keypad
  - Main Menu
  - Confirm the selection
  - Cancel or Exit
  - Rotate screen horizontally or vertically
  - Confirm the selection
  - ◄►▲▼ Arrow keys to traverse between fields or increase / decrease selected field value

- **LEDs**

POWER	solid red	Power is up
INPUT 1 to 4	flashing green	No RF input
	solid green	RF input detected

Peripheral Interface

Front Panel

- **OUT** RF output, 75Ω F
- **IN1 to IN4** Antenna or Cable RF Input, 75Ω F
- **1000Base-T** Gigabit Ethernet, RJ-45
- **Mini USB** USB for software upgrade from PC
- **12VDC IN** Power Input

Back Panel

- **TEST OUT** RF output test port, 75Ω F, -20dB
- **GND** Grounding

Package Content

- ST-8802 Channel Filter
- Mini USB-male / A-male cable
- AC/DC power adapter
- Start Guide

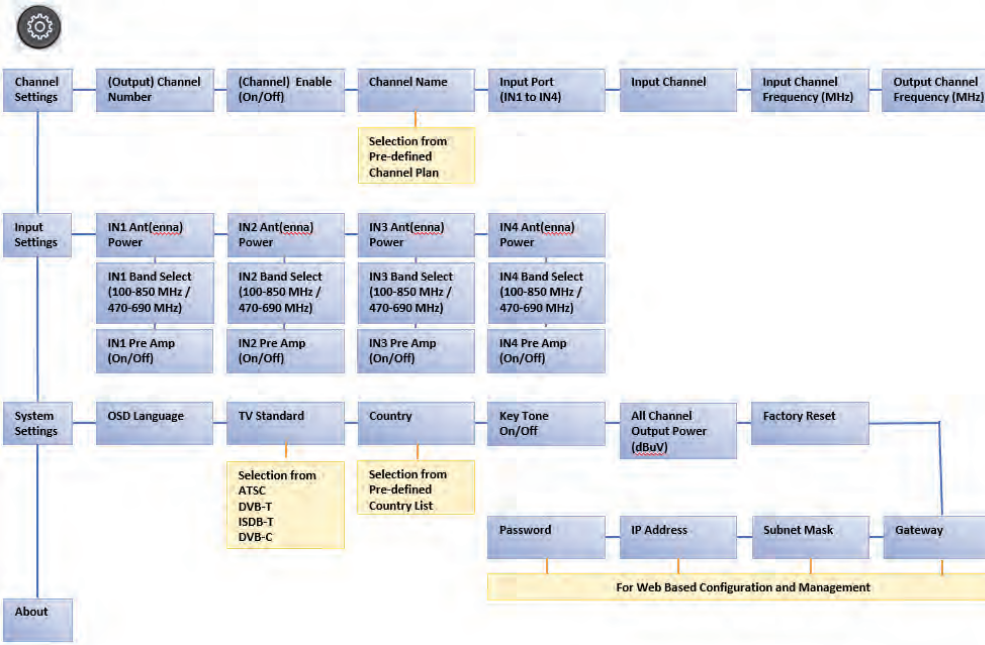
TV Standards

- **Cable TV (USA)** J.83B
- **Over-the-Air TV (USA)** ATSC (8VSB), ATSC3
- **Cable TV (EU, SA)** DVB-C (J.83A/C)
- **Over-the-Air TV (CO)** DVB-T
- **Over-the-Air (SA)** ISDB-T(b)

Installation Requirement

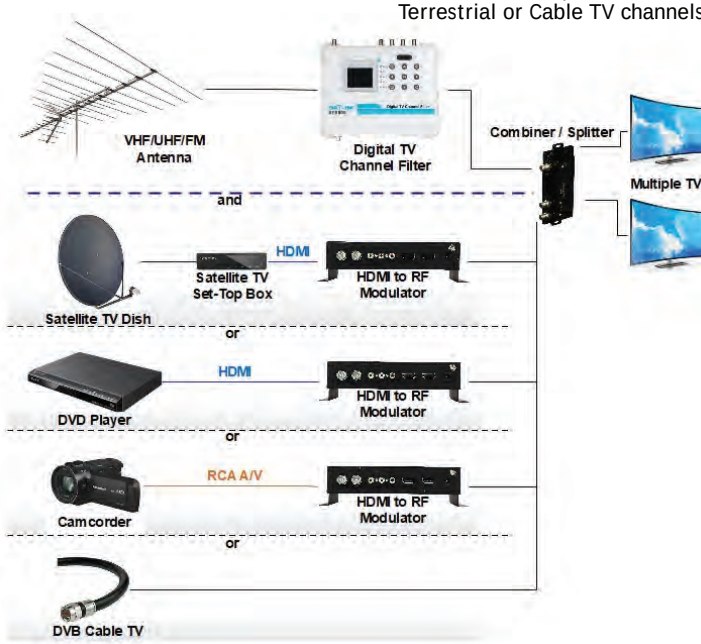
- Available video/audio source from Cable TV or antenna
- Available TV set
- Available electrical power socket

LCD Menu Tree



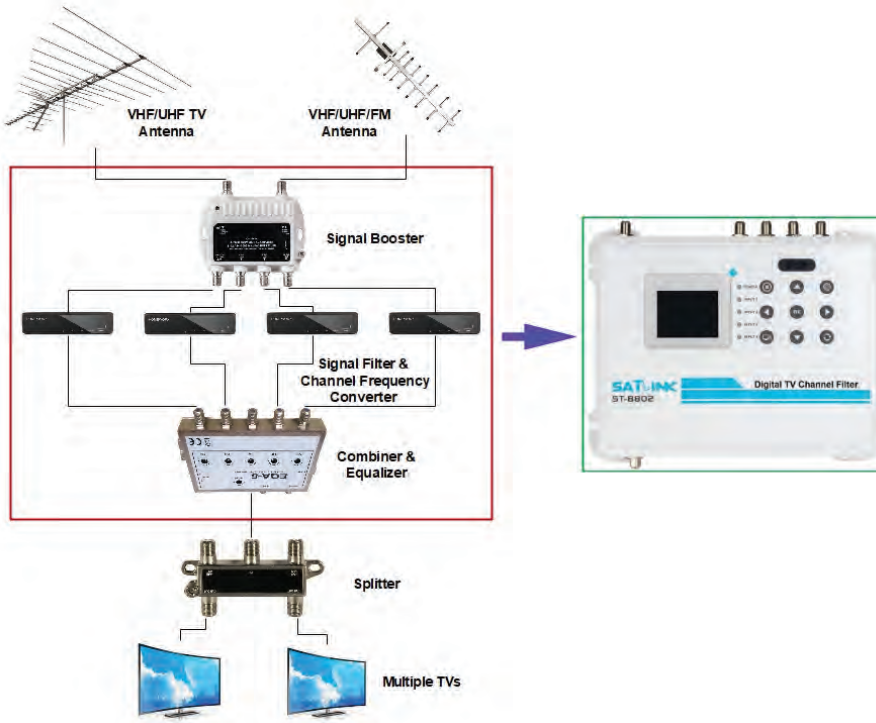
Application Scenario (1)

ST-8802 can work with HDMI to RF modulator to combine multiple HDMI video channels with Terrestrial or Cable TV channels



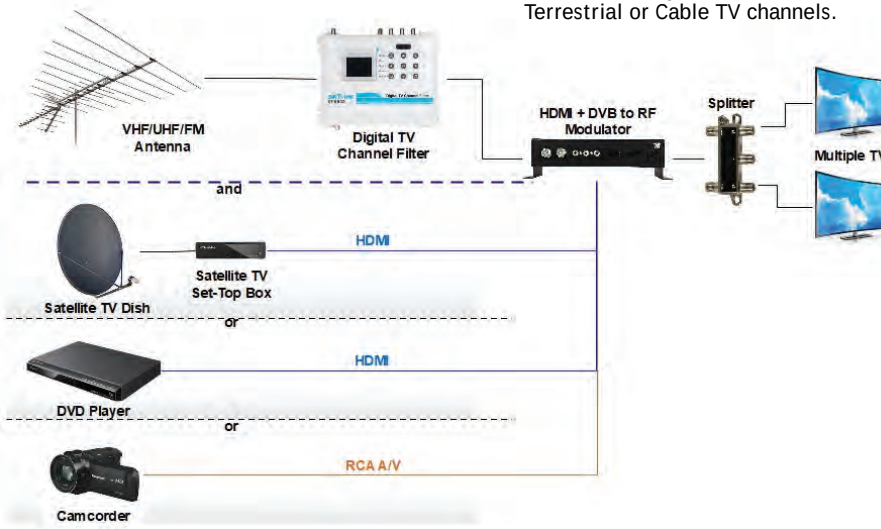
Application Scenario (2)

ST-8802 can replace several components in delivery path of TV signals, including channel (signal) booster, filter, frequency converter,



Application Scenario (3)

ST-8802 can work with HDMI to RF modulator to combine single HDMI video channel with Terrestrial or Cable TV channels.



LCD Configuration Menu

■ Channel Settings

- ♦ Channel Index — press◄► to change the channel index between 1 to 32 for channel configuration.
- ♦ Channel Status — press◄► to enable or disable the current channel (index).
- ♦ Channel Name — press **OK** to edit program name with alphanumerical soft keypad, press ⊗ to save and escape.
- ♦ **Input Port** — press◄► to change RF input port between IN1 to IN4.
- ♦ **Input Channel** — press◄► to show the channel table to select, ▲▼ to traverse, **OK** to select input channel frequency from channel table.
- ♦ Input Frequency — press **OK** to edit input channel frequency, ◄► to move cursor and ▲▼ to change frequency in range, press ⊗ to save and escape.
- ♦ Output Channel — press **OK** to edit LCN, ◄► to move cursor and ▲▼ to change LCN, press **RETURN** to save and escape.
- ♦ Output Channel — press◄► to show the channel table to select, ▲▼ to traverse, **OK** to select input channel frequency from channel table.
- ♦ Output Frequency — press **OK** to edit input channel frequency, ◄► to move cursor and ▲▼ to change frequency in range, press ⊗ to save and escape.
- ♦ Channel Bandwidth — press◄► to change channel bandwidth between 3 MHz and 9 MHz.
- ♦ Output Attenuation — press◄► to change channel output attenuation between -10dB and -5dB.

■ Input Settings

- ♦ INx Antenna Power — press ◄► to turn ON/OFF antenna power supply on INx input port.
- ♦ INx Band Selection — press ◄► to select 100MHz - 850MHz band or 470MHz - 690MHz band from input port INx. Normally, 470MHz - 690MHz band has better modulated signals.
- ♦ INx PreAmplifier — press ◄► to turn ON/OFF Preamplifier of INx input port.

■ System Settings

- ♦ OSD Language — press◄► to change on-screen-display language.
- ♦ TV Standard — press◄► to change TV standard in ATSC, DVB-T, ISDB-T or DVB-C.
- ♦ Country — press◄► to show the country list, ▲▼ to select country. Depending on the TV Standard selected, channel plan of selected country will be loaded for Channel and Frequency setup. If channel plan is unavailable for your country, select the nearby country.
- ♦ Key Tone — press◄► to turn ON/OFF keypad beep sound.
- ♦ **Output Attenuation (All Channels)** — press◄► to change output attenuation of all output channels between -31dB and 0dB relative to 113 dBuV (53 dBmV).
- ♦ Temperature — Display the current temperature of the main processor chip.
- ♦ Password — press OK to edit the password for LCD menu configuration, press ⊗ to save and escape. Default password is 0000 which means no password is required.

Web Based Management Specific

- ♦ IP Address — press **OK** to edit IP Address, ◄► to move cursor and ▲▼ to change value, press ⊗ to save and escape.
- ♦ Subnet Mask — press **OK** to edit IP Address, ◄► to move cursor and ▲▼ to change value, press ⊗ to save and escape.
- ♦ Default Gateway — press **OK** to edit IP Address, ◄► to move cursor and ▲▼ to change value, press ⊗ to save and escape.
- ♦ Factory Reset — press **OK** to reset and restore factory defaults
- ♦ About — Display information of software and hardware revisions of the unit.

Before Editing TV Channels

System Settings

In order to combine the existing TV broadcasting channels from antenna inputs, it's necessary to configure system parameters properly from the System Settings menu:

- OSD Language → press ◄► keys to select the on-screen display language. If your local language is unavailable, select English and refer to the description of this Start Guide.
- Country → press ◄► keys to select country that reflects the channel plan/table to be loaded for channel extraction and formation. If selection of your country is unavailable, select the country close to yours in the area.
- TV Standard → press ◄► keys to select TV standard in your region from ATSC (6MHz), DVB-T (6MHz, 7MHz or 8MHz), ISDB-T (6MHz) or DVB-C (J.83B 6MHz, or J.83A/C 8MHz).
- Output Attenuation (All Channels) → press ▲▼ keys to change output attenuation applies to all channels between -31dB and 0dB relative to 113 dBuV (53 dBmV).

Choose Input Channel from Antenna or Cable Input

- Output frequency of selected input channel can be any existing channel frequency available from your local Channel Plan.
- Depending on the modulation technique of over-the-air broadcasting TV or Cable TV used in your area, refer to the corresponding appendix for Channel Plan information.
- For business installers, a handheld spectrum analyzer up to 1 GHz can be helpful to understand the channel/signal quality but it's not mandatory.
- Select an unused or an unimportant channel from the Channel Plan as output channel frequency if optimized channels are going to be combined with other input source.
- If you are unsure about which output frequency to be used for selected input channel
  - ◊ Pick a frequency between channel gap, make sure it's 6 MHz or 8 MHz away from the previous and the next channels.
  - ◊ Use the recommended frequency indicated on the corresponding Channel Plan appendix.
  - ◊ Use the default frequency selected by the Channel Filter.
- Output channel name, channel number and frequency of selected input channel can be configured from the LCD menu or Web Configuration page.
- Follow the instructions of this Start Guide to extract input channels from antenna input ports to format output channels. Maximum 32 output channels can be composed.
- Your TV needs to learn all TV channels by auto or manual channel rescan. Refer to the user's guide of your TV set to practice the rescan for channel detection.
- If the output power level of the Channel Filter is too high, it may oversaturate the TV signals delivered by service providers. It' necessary to lower the output power level or use an attenuator to reduce oversaturation.

Compose an Output Channel

The Channel Filter is independent on regional TV standards. It only needs to know the channel bandwidth (6 MHz, 7 MHz or 8 MHz) to extract proper TV signal from selected input port, shift the channel frequency, adjust the output power level if necessary, and then place it as an output channel on the output port.

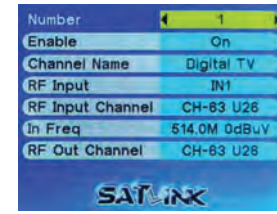
Follow the steps below to compose one TV channel from input port to output port. Repeat the steps to compose more output channels from selected input ports. Maximum 32 channels can be composed from 4 different input ports.

Refer to the Input Settings section in LCD Configuration Menu page to configure input ports.

① Power on the Channel Filter with power adapter included in the package.

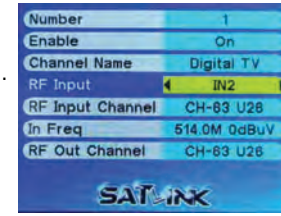
② Connect the end of the coaxial cable from antenna to an input port of the Channel Filter.

③ Go through the LCD configuration screen on the Channel Filter to extract one TV channel from selected input port to format a TV output channel.



Press ⚙ button to jump to the main menu. Select Channel Settings and press OK.

- Index → press ◄► to select channel index between 1 and 32.
- Status → press ◄► to Enable or Disable selected channel index.
- Channel Name → press OK to edit channel name with soft alphanumerical keypad, press ⊗ to save and escape.
- Input Port → press ◄► to select RF input port between IN1 and IN4.
- Input Channel → press ◄► to show channel table; press ▲▼ to traverse; press OK to select input channel from selected input port.
- Input Frequency → press OK to edit input frequency in MHz with ◄► keys to move cursor and ▲▼ keys to increase or decrease frequency in range; press ⊗ to save and escape.
- Output Channel → press ◄► to show channel table; press ▲▼ to traverse; press OK to select output channel.
- Output Frequency → press OK to edit output frequency in MHz with ◄► keys to move cursor and ▲▼ keys to increase or decrease frequency in range; press ⊗ to save and escape.
- Channel Bandwidth → press ◄► to change output channel bandwidth between 3.0 MHz and 9.0 MHz in 0.1 MHz step.
- Output Attenuation → press ◄► to change output channel attenuation between -10dB and -5dB.



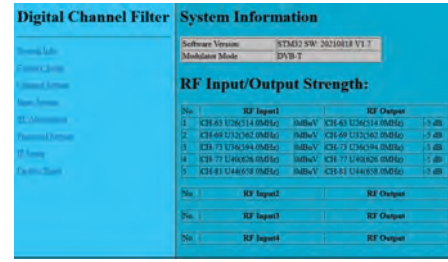
After all output channels have been composed, turn on the TV and run Auto Scan for channel detections.

Web Configuration / Remote Control

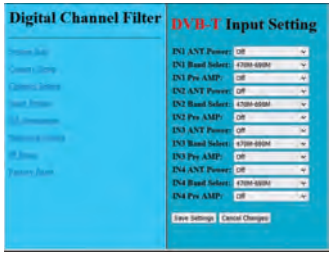
Ethernet/IP settings of the Channel Filter can be configured from the System Settings of the main menu.

① Connect the Ethernet (RJ-45) port on the back panel of the Channel Filter and the Ethernet port of a PC with an Ethernet cable. Power on the Channel Filter.
② Configure the IP address of the PC to be 192.168.1.100.
③ Launch a Web browser on PC and type http://192.168.1.15, Default login password is 1234.
④ On the Web management pages of the Channel Filter, all configuration settings from LCD menu are available for remote access through Web interface.

Login



System Settings



Input Settings

Channel Settings

Specifications

Note: Specifications are subject to change without notice.

Input and Output	
Interface	Input 75Ω F x 4, Output 75Ω F x 1, -20dB Test 75Ω F x 1
Output Frequency	174 to 862 MHz
Input Level	45 to 109 dBμV
Output Level	max 113 dBμV
Gain	VHF 35 dB, VHF 45 dB
Gain Control	Channel AGC
Attenuator	0 to 31 dB
Electrostatic Discharge Protection (ESD)	All Input Ports
Output MER	>32 dB
General	
Power Supply	12 VDC, 1.5A
Dimensions with Rack	10.25" x 7" x 1.75" (230 x 177 x 44 mm)
Weight	2.58 lbs (1.15 kgs)
Temperature	5 to 50 °C (Operation) -20 to 80 °C (Storage)

Video Quality

Video and audio quality are optimized by determining the size and the speed to transmit MPEG packets to the TV. The packet latency and delay variation are adjusted automatically by the Channel Filter to reach the best quality and performance on the TV.

Note: In order to display video normally on TV

- Signal accepted by the TV must comply with standard MPEG-2 or MPEG-4 encoding
- The video content is not protected under High-Bandwidth Digital Content Protection (HDCP) agreement

DVB-T Channel Plan - Europe, Colombia & Asia

Channel Bandwidth: 7 MHz or 8 MHz QAM, QPSK

Channel Plan is for reference only. It may vary across countries, areas or cities. Refer to the LCD menu screen of the Channel Filter to load country-wise Channel Plan if available.

- **UK** DVB-T channels start from CH-21.
- **New Zealand** DVB-T channels start from CH-26.

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
CH-05	177.5*	CH-42	642
CH-06	184.5*	CH-43	650
CH-07	191.5*	CH-44	658
CH-08	198.5*	CH-45	666
CH-09	205.5*	CH-46	674
CH-10	212.5*	CH-47	682
CH-11	219.5*	CH-48	690
CH-12	226.5*	CH-49	698
CH-21	474	CH-50	706
CH-22	482	CH-51	714
CH-23	490	CH-52	722
CH-24	498	CH-53	730
CH-25	506	CH-54	738
CH-26	514	CH-55	746
CH-27	522	CH-56	754
CH-28	530	CH-57	762
CH-29	538	CH-58	770
CH-30	546	CH-59	778
CH-31	554	CH-60	786
CH-32	562	CH-61	794
CH-33	570	CH-62	802
CH-34	578	CH-63	810
CH-35	586	CH-64	818
CH-36	594	CH-65	826
CH-37	602	CH-66	834
CH-38	610	CH-67	842
CH-39	618	CH-68	850
CH-40	626	CH-69	858
CH-41	634		

- **Australia** DVB-T channels - 7 MHz bandwidth.

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
CH-06	177.5	CH-45	648.5
CH-07	184.5	CH-46	655.5
CH-08	191.5	CH-47	662.5
CH-09	198.5	CH-48	669.5
CH-09A	205.5	CH-49	676.5
CH-10	212.5	CH-50	683.5
CH-11	219.5	CH-51	690.5
CH-12	226.5	CH-52	697.5
CH-28	529.5	CH-53	704.5
CH-29	536.5	CH-54	711.5
CH-30	543.5	CH-55	718.5
CH-31	550.5	CH-56	725.5
CH-32	557.5	CH-57	732.5
CH-33	564.5	CH-58	739.5
CH-34	571.5	CH-59	746.5
CH-35	578.5	CH-60	753.5
CH-36	585.5	CH-61	760.5
CH-37	592.5	CH-62	767.5
CH-38	599.5	CH-63	774.5
CH-39	606.5	CH-64	781.5
CH-40	613.5	CH-65	788.5
CH-41	620.5	CH-66	795.5
CH-42	627.5	CH-67	802.5
CH-43	634.5	CH-68	809.5
CH-44	641.5	CH-69	816.5

Note: * indicates channels with 7 MHz bandwidth.

ATSC (8VSB) Channel Plan - North America

Channel Bandwidth: 6 MHz 8VSB

Channel Plan is for reference only. It may vary across countries, areas or cities. Refer to the LCD menu screen of the Channel Filter to load country-wise Channel Plan if available.

- **Mexico ATSC channels are channel 14 to channel 69**.

Channel No.	Frequency (MHz)
VHF	
2	57
3	63
4	69
5	79
6	85
VHF High Band III	
7	177
8	183
9	189
10	195
11	201
12	207
13	213
UHF	
14	473
15	479
16	485
17	491
18	497
19	503
20	509
21	515
22	521
23	527
24	533
25	539
26	545
27	551
28	557
29	563
30	569
31	575
32	581
33	587
34	593
35	599
36	605
37	611
38	617
39	623
40	629
41	635

Channel No.	Frequency (MHz)
UHF	
42	641
43	647
44	653
45	659
46	665
47	671
48	677
49	683
50	689
51	692
52	701
53	707
54	713
55	719
56	725
57	731
58	737
59	743
60	749
61	755
62	761
63	767
64	773
65	779
66	785
67	791
68	797
69	803
70	809
71	815
72	821
73	827
74	833
75	839
76	845
77	851
78	857
79	863
80	869
81	875
82	881
83	887

ISDB-T(b) Channel Plan - South America

Channel Bandwidth: 6 MHz QAM, DQPSK, QPSK

Channel Plan is for reference only. It may vary across countries, areas or cities. Refer to the LCD menu screen of the Channel Filter to load country-wise Channel Plan if available.

Channel No.	Frequency (MHz)
CH-07	177.143
CH-08	183.143
CH-09	189.143
CH-10	195.143
CH-11	201.143
CH-12	207.143
CH-13	213.143
CH-14	473.143
CH-15	479.143
CH-16	485.143
CH-17	491.143
CH-18	497.143
CH-19	503.143
CH-20	509.143
CH-21	515.143
CH-22	521.143
CH-23	527.143
CH-24	533.143
CH-25	539.143
CH-26	545.143
CH-27	551.143
CH-28	557.143
CH-29	563.143
CH-30	569.143
CH-31	575.143
CH-32	581.143
CH-33	587.143
CH-34	593.143
CH-35	599.143
CH-36	605.143
CH-37	611.143
CH-38	617.143

Channel No.	Frequency (MHz)
CH-39	623.143
CH-40	629.143
CH-41	635.143
CH-42	641.143
CH-43	647.143
CH-44	653.143
CH-45	659.143
CH-46	665.143
CH-47	671.143
CH-48	677.143
CH-49	683.143
CH-50	689.143
CH-51	695.143
CH-52	701.143
CH-53	707.143
CH-54	713.143
CH-55	719.143
CH-56	725.143
CH-57	731.143
CH-58	737.143
CH-59	743.143
CH-60	749.143
CH-61	755.143
CH-62	761.143
CH-63	767.143
CH-64	773.143
CH-65	779.143
CH-66	785.143
CH-67	791.143
CH-68	797.143
CH-69	803.143

DVB-C (J.83A/C) Channel Plan

Channel Bandwidth: 8 MHz QAM

Channel Plan is for reference only. It may vary across countries, areas or cities. Refer to the LCD menu screen of the Channel Filter to load country-wise Channel Plan if available.

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	52.5	34	339	67	610
2	60.5	35	347	68	618
3	68.5	36	355	69	626
4	80	37	363	70	634
5	88	38	371	71	642
13	115	39	379	72	650
14	123	40	387	73	658
15	131	41	395	74	666
16	139	42	403	75	674
17	147	43	411	76	682
18	155	44	419	77	690
19	163	45	427	78	698
6	171	46	435	79	706
7	179	47	443	80	714
8	187	48	451	81	722
9	195	49	459	82	730
10	203	50	474	83	738
11	211	51	482	84	746
12	219	52	490	85	754
20	227	53	498	86	762
21	235	54	506	87	770
22	243	55	514	88	778
23	251	56	522	89	786
24	259	57	530	90	794
25	267	58	538	91	802
26	275	59	546	92	810
27	283	60	554	93	818
28	291	61	562	94	826
29	299	62	570	95	834
30	307	63	578	96	842
31	315	64	586	97	850
32	323	65	594	98	858
33	331	66	602	99	866

J.83B Channel Plan - North America

Channel Bandwidth: 6 MHz QAM

Channel Plan is for reference only. It may vary across countries, areas or cities. Refer to the LCD menu screen of the Channel Filter to load country-wise Channel Plan if available.

Channel No.	Frequency (MHz)
Low	
2	57
3	63
4	69
1	75
5	79.00 / 81.00
6	85.00 / 87.00
Mid	
95	93
96	99
97	105
98	111
99	117
14	123
15	129
16	135
17	141
18	147
19	153
20	159
21	165
22	171
High	
7	177
8	183
9	189
10	195
11	201
12	207
13	213
Super	
23	219
24	225
25	231
26	237
27	243

Channel No.	Frequency (MHz)
Super	
28	249
29	255
30	261
31	267
32	273
33	279
34	285
35	291
36	297
Hyper	
37	303
38	309
39	315
40	321
41	327
42	333
43	339
44	345
45	351
46	357
47	363
48	369
49	375
50	381
51	387
52	393
53	399
54	405
55	411
56	417
57	423
58	429
59	435
60	441
61	447

Channel No.	Frequency (MHz)
Hyper	
62	453
63	459
64	465
Ultra	
65	471
66	477
67	483
68	489
69	495
70	501
71	507
72	513
73	519
74	525
75	531
76	537
77	543
78	549
79	555
80	561
81	567
82	573
83	579
84	585
85	591
86	597
87	603
88	609
89	615
90	621
91	627
92	633
93	639
94	645
Jumbo	
100	651
101	657
102	663
103	669
104	675
105	681
106	687
107	693
108	699
109	705
110	711
111	717

Channel No.	Frequency (MHz)
Jumbo	
112	723
113	729
114	735
115	741
116	747
117	753
118	759
119	765
120	771
121	777
122	783
123	789
124	795
125	801
126	807
127	813
128	819
129	825
130	831
131	837
132	843
133	849
134	855
135	861
136	867
137	873
138	879
139	885
140	891
141	897
142	903
143	909
144	915
145	921
146	927
147	933
148	939
149	945
150	951
151	957
152	963
153	969
154	975
155	981
156	987
157	993
158	999

Notes

■ Warranty

This device has two-year Limited Hardware Warranty and 90-day free software updates after purchase. This Limited Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from country to country in the world. To the extent that this Limited Warranty Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer.

■ Important Safety Instructions

Basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Do not use this product near water – for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement; only clean with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers that produce heat.
- Do not remove the cover of the Channel Filter, cover the modulator with thick or heavy objects.
- Use only the power cord indicated in this manual if applicable.

■ Coaxial Cable

If applicable, the coaxial cable screen shield needs to be connected to the Earth at the building entrance per ANSI/NFPA70, the National Electrical Code (NEC), in particular Section 820.93, "Grounding of Outer Conductive Shield of a Coaxial Cable," or in accordance with local regulation.

■ FCC Class B Equipment

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by implementing one or more of the following measures:

- Reorient or relocate the device
- Increase the separation between the device and receiver
- Connect the device to an outlet on a circuit different from that to which the receiver is connected (applicable only to power line products)
- Consult the dealer or an experience radio or television technician for help

■ Declaration of Conformity for Products Marked with the FCC logo – USA Only

This device complies with Part 15 of the FCC Rules license-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation of the device

Where applicable, the Most Technology Service Co., Ltd. performed above specification conformity test and issued certificate # MOSTCC21082848 in accordance with local regulation.

■ Declaration of CE Conformity for EU

Manufacturer: SatLink Electronics Co., Ltd.
No. 26, Zishan Road, Jiangnan High-Tech Park, Licheng District
Quanzhou, Fujian Province, China
Objects: ST-8802

This declaration of conformity is issued under the sole responsibility of the manufacturer for products of Digital TV Channel Filter that support multi-channel DVB-T, ISDB-T, DVB-C (J.83B/A/C), and ATSC standards.
The object(s) of the declaration described above are in conformity with the relevant Community harmonization legislation:
– Low Voltage Directive (2014/35/EU)
– Electromagnetic Compatibility Directive (2014/30/EU)
- Radio Equipment Directive (2014/53/EU)
And their amendments.
References to the relevant harmonized standards, including the date of the standard, used in relation to which the conformity is declared:
– ETSI EN 301 48901 v2.2.3: 2019-11
- ESTI EN 301 489-53 v1.1.1: 2019-04
- ESTI EN 303 372-2 v1.1.1: 2016-04
- ESTI EN 303 340 v1.2.0: 2020-06
- EN IEC 62368-1:2020+A11:2020
Where applicable, the Most Technology Service Co., Ltd. performed above specification conformity test and issued certificate # MOSTCC21061592 in accordance with local regulation.

Trouble Shooting

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