

# PRODUCT MODEL NUMBER: TL-9524C ENCODER MODULATOR



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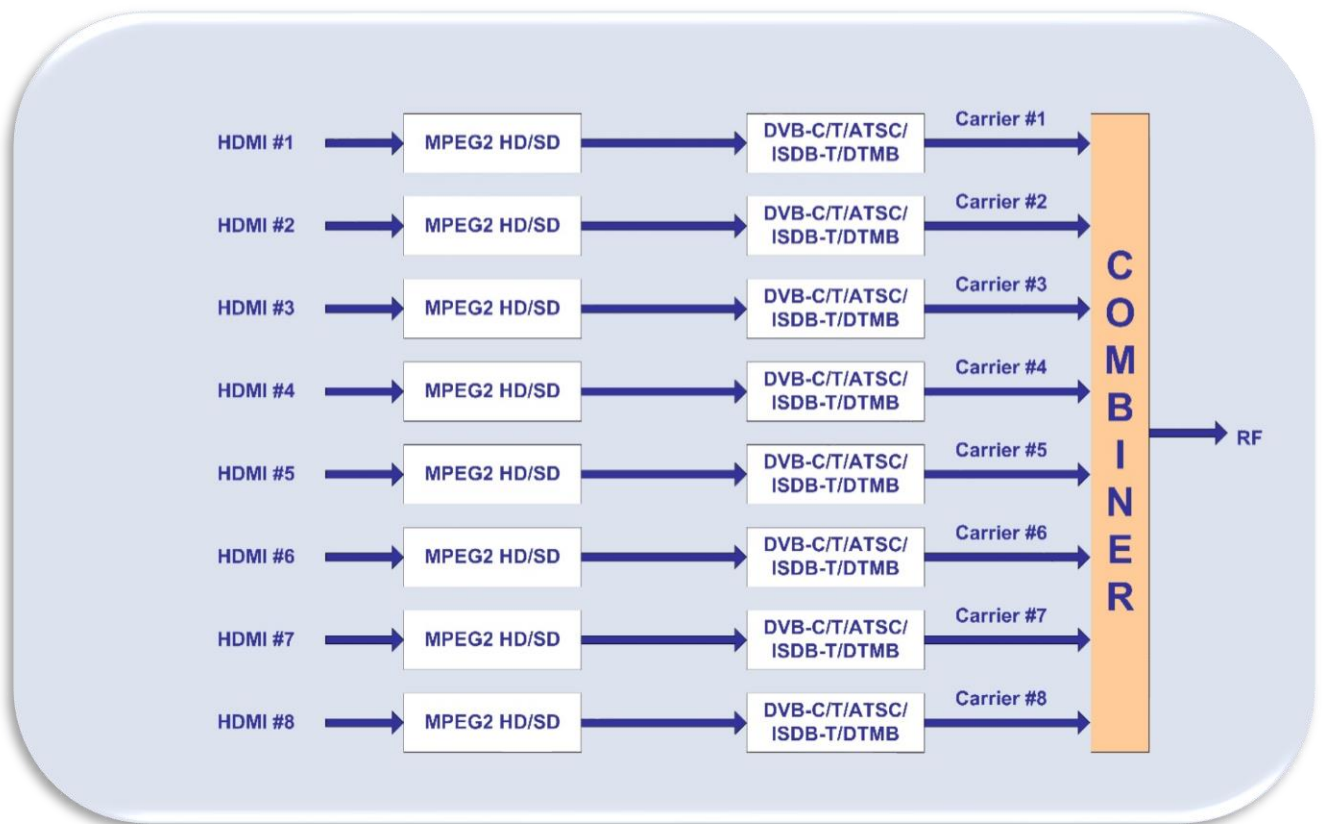
## PRODUCT OVERVIEW

TL-9524C encoder modulator is an all-in-one device integrating MPEG2 encoding and modulating to convert audio/video signals into DVB-C/T/ATSC/ISDB-T/DTMB RF out. It supports 4/8 HDMI inputs. The signals source could be from STB, satellite receiver, closed-circuit television cameras and antenna. Its output signal is to be received by TVs STBs, etc.

## KEY FEATURES

- Support 4/8 HDMI channels input
- Support MPEG2 video encoding
- Support 1080p/i, 720p, 576i, 480i video resolution
- Support low latency (50~1000ms)
- Support MPEG1 layer 2, MPEG-2 AAC, and DD AC3 audio encoding
- Support CC (Closed Caption), EIA 608
- Support LCN (Logical Cluster Number)
- DVB-C/T/ATSC/ISDB-T/DTMB RF out in one device, Modulation dynamic switching
- Each channel support 1 DVB-C/T/ATSC/ISDB-T/DTMB output option
- Control via web-based NMS, and easy updates via web

# PRINCIPLE CHART



# SPECIFICATIONS

HDMI Encoding Section		
<b>Input</b>	Interface	HDMI*4/8
	Encoding	MPEG2
<b>Video</b>	<b>Input</b>	<b>Output</b>
	480@59.94/60i	480@30p
	576@50i	576@25p
	720@50/59.94/60p	720@25/30p
	1080@50i	1080@25p
	1080@59.94/60i	1080@30p
	1080@50p	1080@25p
	1080@59.94/60p	1080@30p

<b>Audio</b>	Encoding	MPEG1 layer 2, MPEG-2 AAC, AC3	
	Sample rate	48KHz	
	Bit rate	MPEG1 layer 2 (128kbps)	
		MPEG-2 AAC (VBR) AC3 (128kbps)	
<b>DVB-C Modulator Section</b>			
Standard	J.83A (DVB-C), J.83B		
MER	≥35dB		
RF frequency	100-1000MHz, 1KHz step		
RF output level	-48~ -10dBm, 1dB step		
Symbol rate	3.000~7.000Msps adjustable		
Constellation	J.83A	J.83B	
	16/32/64/128/256QAM	64/ 256QAM	
Bandwidth	8M	6M	
<b>DVB-T Modulator Section</b>			
Standard	DVB-T COFDM		
Bandwidth	2M, 3M, 4M, 5M, 6M, 7M, 8M		
Constellation	QPSK, 16QAM, 64QAM		
Code rate	1/2, 2/3, 3/4, 5/6, 7/8		
Guard Interval	1/32, 1/16, 1/8, 1/4		
Transmission Mode:	2K, 8K		
MER	≥35dB		
RF frequency	100-1000MHz, 1KHz step		
RF output level	-48~ -10dBm, 1dB step		
<b>ISDB Modulator Section</b>			
Standard	ARIB STD-B31		
Constellation	QPSK, 16QAM, 64QAM		
Guard Interval	1/32, 1/16, 1/8, 1/4		
Transmission Mode	2K, 4K, 8K		
Code rate	1/2, 2/3, 3/4, 5/6, 7/8		
RF frequency	100~1000MHz, 1KHz step		
RF output level	-48~ -10dBm, 1dB step		

ATSC Modulator Section	
Standard	ATSC A/53
Constellation	8 VSB
MER	≥35dB
RF frequency	100~1000MHz, 1KHz step
RF output level	-48~ -10dBm, 1dB step
DTMB Modulator Section	
RF frequency	100-1000MHz, 1KHz step
RF output level	-48 ~ -10dBm, 1dB step
Transmission Mode	S-0.8-4QAM-595, S-0.8-16QAM-595, M-0.4-16QAM-945V, M-0.6-16QAM-945V, M-0.6-64QAM-420V, M-0.6-64QAM-945V, M-0.8-16QAM-420V, M-0.8-16QAM-945V, M-0.8-64QAM-420V
System	
Management	Web
Language	English
Upgrade	Web update
General	
Power supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
Dimensions	482*328*44.5mm
Temperature	0~45°C(operation), -20~80°C(storage)

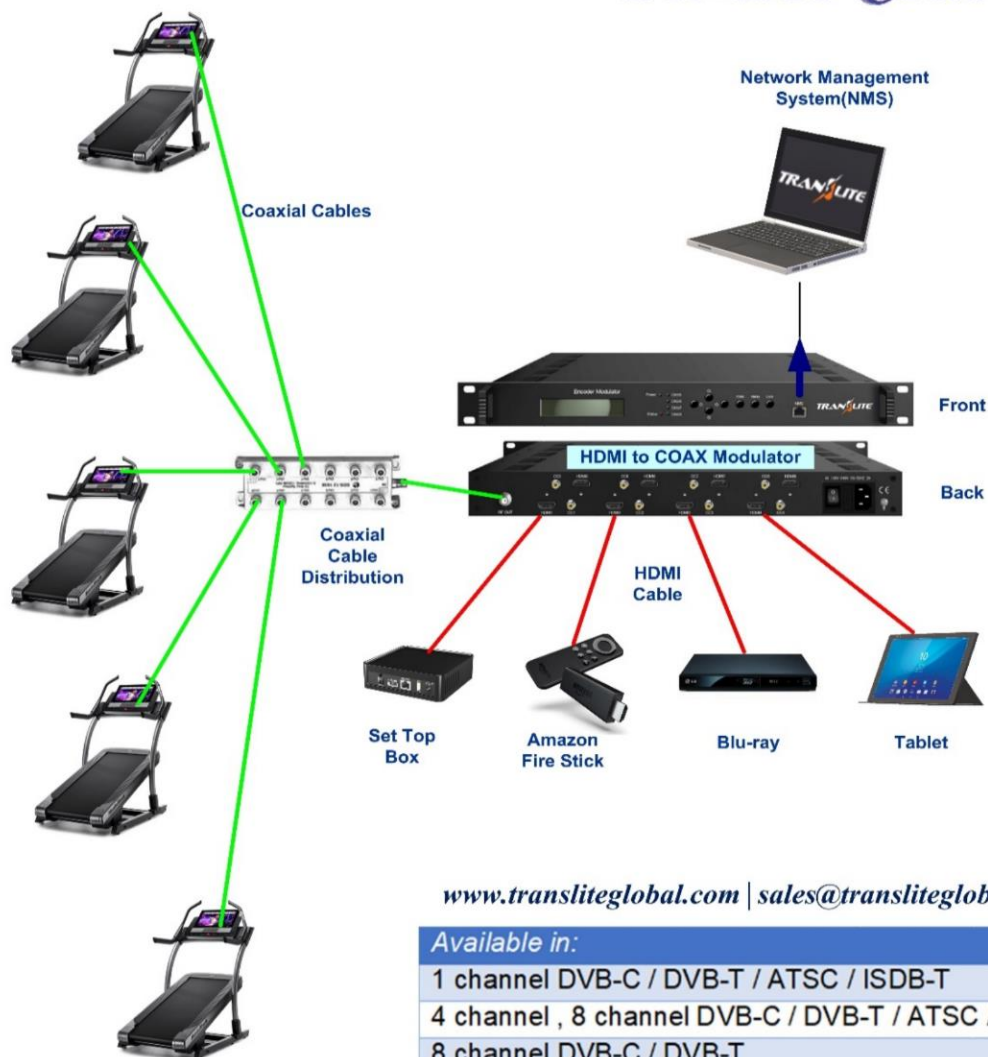
# APPLICATION

## HDMI TO COAX

*Create your own Advertising Channel*

TL-9524C / TL-2259B / TL-8459H /  
TL-9544B / TL-4459C

### *Fitness Center*



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**Available in:**

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- 8 channel DVB-C / DVB-T
- 32 channel DVB-C / DVB-T / ATSC / ISDB-T
- 8/12/16/20/24 DVB-C / DVB-T / ATSC / ISDB-T

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