



**MPEG-2 & MPEG-4 Transcoding**  
**Latency 150ms**  
**Chroma Format 4:2:0**

### Introduction

DMT-9724, it is professional MPEG transcoder which converts from MPEG-2 to MPEG-4 AVC or MPEG-4 AVC to MPEG-2 as Digital stream(DVB-ASI). Also, it receives various broadcasting signals and transcodes Video/Audio streams. As an option, it receives IP stream, RF(8-VSB, QAM, DVB-T, DVB-S) and modulate many kinds of broadcasting signals after transcoding.

### Competitiveness

- Providing your customers with cost effective transcoding solution
- Advanced video trans-coding techniques.
- Save the cost for system with flexibility of optional inputs and outputs.
- Able to secure space with Compact and light weight design
- Make operators pay for less labor fee as offering Quick and easy setup

### Feature

- Any to Any real time Video/audio trans-coding
- Supports 4:2:2/4:2:0 (10bit/8bit) video
- Excellent Audio trans-coding
- Audio leveling adjustment
- Flexible modular and scalable architecture to fit your network.
- Up to SD / HD channels in the 1RU chassis
- Low power consumption
- Excellent transcoded video quality
- Audio pass-through

### Options

Input- DVB-ASI, IP Stream  
RF(8-VSB, QAM, DVB-T, DVB-S) options

Output – HDMI, HD/SD-SDI, IP Stream  
Composite, Component (option)  
RF(8-VSB, QAM, DVB-T, DVB-S) options

### Specification

#### RF Input

Frequency Range	54~1002MHz
Input Channel	1CH
Impedance	75Ω
Input Level	-25~25dBmV
Return Loss	≥ 17 dB
Noise Figure	VHF 7dB, UHF 9dB

#### TS Input

Transport Stream	DVB-ASI 1 port
Packet Format	188 Byte
Connector	BNC(75Ω)
TS Bit Rate	MPEG-2 : 6.2~55 Mbps MPEG-4 AVC : 6.2~55 Mbps

#### IP TS Input

IP Stream	1 port
Connector	RJ-45
Ethernet type	10/100/1000 Base-T
Format	UDP/IP, RTP/IP
IP Address Format	Multicast, Unicast
TS Bit Rate	MPEG-2 : 6.2~55 Mbps MPEG-4 AVC : 6.2~55 Mbps

#### Video Encoder

Transcoding	MPEG-2 TO MPEG-4 H.264 MPEG-4 H.264 TO MPEG-2
Encoding	MPEG-2 HP@HL, MP@HL, MP@ML MPEG-4 AVC HP@L4, MP@L3
Encoding Rate	MPEG-2 : 2~50 Mbps MPEG-4 AVC : 0.5~50 Mbps
Chroma Format	4:2:0, 4:2:2 (10bit)
Bit Rate Mode	CBR,VBR
Latency	150ms~

#### Audio Encoder

Sampling Rate	32, 44.1, 48KHz
Dolby Digital® AC-3(7.1CH)	128,192,256,384 Kbps
MPEG-1 Layer II	192,224,256,320,384 Kbps
MPEG-4 AAC-LC	32~384 Kbps
MPEG-4 HE-AAC v1	32~192 Kbps
MPEG-4 HE-AAC v2	32~96 Kbps

#### RF Output

Frequency Range	54~1002 MHz
Impedance	75 Ω
Output Level	50 ± 5 dBmV
Level Control Range	0 ~ -15 dB
MER After Equalizer	≤42 dB
MER Before Equalizer	≤37 dB
Phase Noise	VHF -105 dB@20KHz UHF -103 dB@20KHz
Adjacent Channel Carrier/Attenuation Characteristic	≤ -45 dB (Out of band)
Spurious	≤ -63 dB
Return Loss	≥ 17 dB
Frequency Response	± 0.5 dB
Frequency Tolerance	± 2 ppm
Group Delay	± 20 ns
PCR Jitter	≤ ± 200 ns

#### TS Output

Transport Stream	ASI 1 port
TS Bit Rate	MPEG-2 : 6.2~55 Mbps MPEG-4 AVC : 6.2~55 Mbps
Packet Format	188 Byte

#### Ethernet

Interface Type	10/100 Base-T
Protocols	SNMP

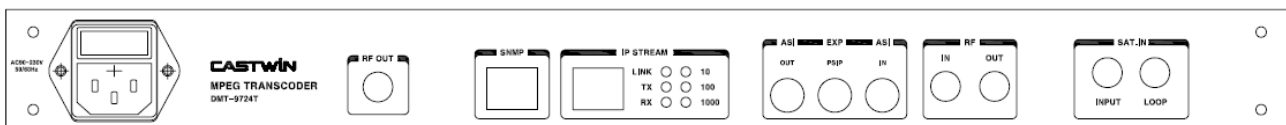
#### IP TS Output

Output	1 Port
Connector	RJ-45
Ethernet type	10/100/1000 Base-T
Format	UDP/IP, RTP/IP
IP Address Format	Multicast, Unicast
TS Bit Rate	MPEG-2 : 6.2~55 Mbps MPEG-4 AVC : 6.2~55 Mbps

#### General

Power Requirements	AC 90~230V, 50/60Hz
Power Consumption	Max. 100W
Weight	4kg
Operating Temperature	-10~50°C
Dimension(W x H x D)	482 x 44 x 383 mm

### Configuration



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