

DXP-5800TC

8-Way H.264 HD/SD MPEG-2 SD Transcoder



DXP-5800TC is a flexible platform which can trans-code any digital TV format to SD/HD H.264 and SD MPEG-2 stream. It provides most of the digital TV inputs with DVB-S/S2, DVB-T/T2, DVB-C tuner, ASI or IP port. The unit can decrypt closed stream and transcode it into H.264/MPEG-2 SD or H.264 HD, and it processes the ancillary data including VBI Teletext, Subtitles. It supports also digital audios loop through function. The re-compressed H.264/MPEG-2 transport stream is output to IP and ASI output.

DXP-5800TC can also be used as a professional IRD that provides a variety of industry standard interfaces and functions, including MUX, IP and ASI. Equipped with dual DVB common interfaces, it supports most of the conditional access system in the market. The equipment is remotely controlled and supervised by SNMP and Web page.

Main Feature

- Compliant with H.264/AVC Baseline, Main & High Profile @L4.0 or less & MPEG-2 MP@ML
- Support SD or HD H.264 and SD MPEG-2
- Support 8-Way transcoding
- Multiple inputs DVB-S2/S/C/T/T2, TS/IP 1000M, ASI
- Built-in remultiplexer with PSI/SI re-generation
- Support 9 channels IP out (8 channels transcoding stream, 1 channel multiplexing stream); ASI support multiplexing stream output
- Min Video transcoding Bit rate 600Kb/s;
- Independent Vertical & Horizontal Pixel scale
- VBR and CBR mode for transcoding
- Audio transcoding MPEG1 Layer II, MPEG2/4 AAC-LC/HE-AAC
- SNMP & HTTP WEB for monitoring & control
- RU chassis with two AC power supplies in redundancy

Order information

Mode Interface		5800TC			5800TC
		-C	-S/S2	-T/T2	-XX
Tuner	C	X4			
	S/S2		X4		
	T/T2			X4	
CI	CI	X4	X4	X4	
TS	ASI In x1& ASI Out x4	•	•	•	•
	TS/IP(GbE)	•	•	•	•

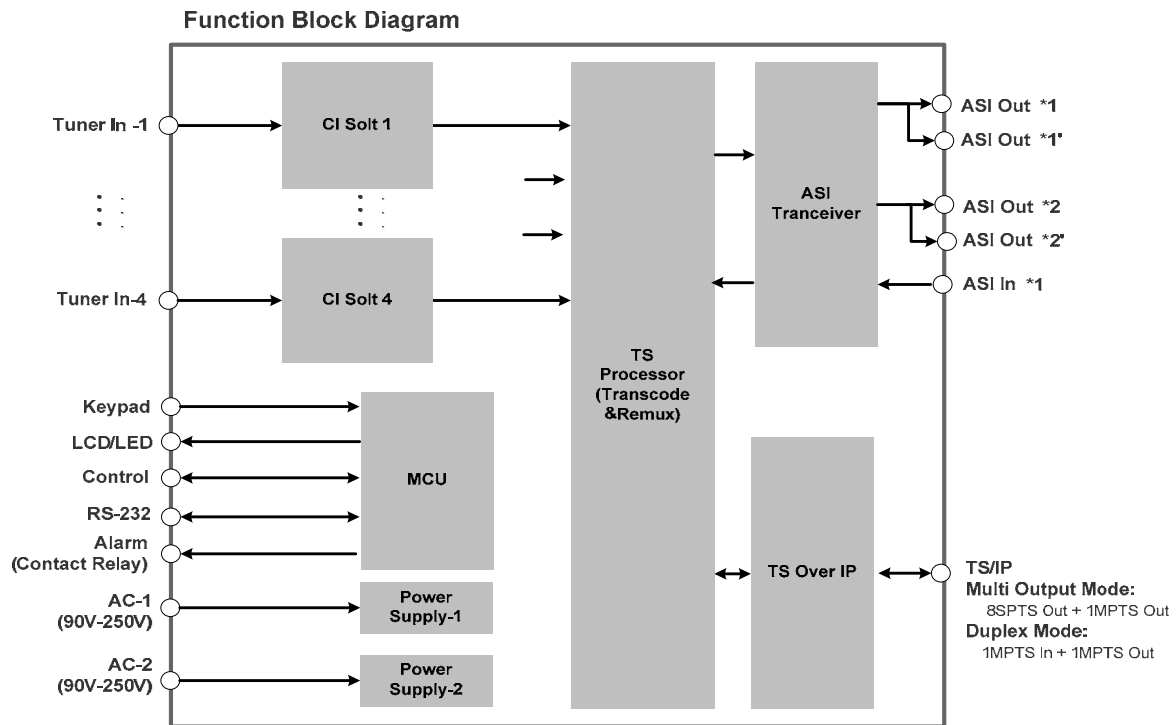
Specification

Video Compression Coding	
Coding Profile & Level	H.264/AVC BLP, MP, HP @ L4.0 or less, MPEG-2 MP@ML
Sampling Format	4:2:0, 10-bit, YCbCr
Recommend Bit Rate	600K~20Mbps
Output Resolution Settings & recommend range	1080i (1920×1080) @25Hz,29.97Hz:SMPTE274M: 1~13Mb/s 720p (1280×720) @50Hz,59.94Hz::SMPTE296M: 1~13Mb/s 480i (720×480) @29.97Hz:SMPTE656M: 600K~10Mb/s 576i (720×576) @25Hz: SMPTE656M:600K~10Mb/s
Video Resolution Down Scaling	Vertical & Horizontal adjustable respectively (frame rate is not scalable)
Aspect Ratio	4:3/16:9 Selectable
Compression Coding	
Coding Standard	MPEG1 Layer II, MPEG-2/4 AAC-LC、HE-AAC(V1/V2)
Sampling Rate	48KHz
Recommend Compression Bit Rate	MPEG1 Layer II :32~192Kbps(Mono), 64~384Kbps(Stereo), MPEG2/4 AAC-LC :24~256Kbps(Mono), 48~512Kbps(Stereo) MPEG2/HE-AAC(V1/V2): 16~128Kbps(Mono), 32~256Kbps(Stereo)
DVB-S2 Input	
Connector Type	4×F type female 75Ω for Input
Input Frequency Range	950 ~ 2150MHz
Input Level	-65~-25dBm
Symbol Rate	2~ 45Msps for QPSK and 8PSK
Roll-off Factor	0.35 for DVB-S 0.35, 0.25, 0.2 for DVB-S2
FEC Code Rate	DVB-S2 QPSK:1/2,3/5,2/3,3/4,4/5,5/6,8/9,8/10 DVB-S2 8PSK:3/5,2/3,3/4,5/6,8/9,9/10
LNB Polarity Selection Voltage	0,13V,18V selectable
0/22K	0/22KHz selectable
DiSEqC	DiSEqC 1.0
DVB-C/T/T2 Input	
Connector Type	4×F type female 75Ω for Input
Symbol Rate	1~7MS/s (PAL), 1~6MS/s (NTSC) (DVB-C)
Constellation	16/32/64/128/256 QAM (DVB-C) QPSK, 16-QAM, 64-QAM (DVB-T) QPSK, 16QAM, 64QAM, 256QAM (DVB-T2)
Bandwidth	6MHz,7MH,8MHz
Input Frequency Range	51~860MHz (DVB-C) 104~862MHz (DVB-T/T2)



Input Level	45dBuV~75dBuV (DVB-C) -20~-70dBm (DVB-T/T2)
FFT Mode	DVB-T: 2K/8K DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K
Guard Interval	1/4, 1/8, 1/16, 1/32(DVB-T) 1/4, 19/256, 1/8, 19/128, 1/16, 1/32, 1/128(DVB-T2)
FEC Code Rate	1/2, 2/3, 3/4, 5/6, 7/8(DVB-T) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6(DVB-T2)
DVB-ASI Input	
Connector Type	BNC Female, 75Ω
Input Bit Rate	Max 100 Mb/s
DVB-ASI Output	
Connector Type	BNC Female, 75Ω
Output Bit Rate	Max 200Mb/s
TS/IP Duplex Mode	
Connector Type	IEEE 802.3, 10/100/1000 Base-T
Effective Bit Rate	80Mb/s, single channel in/out
Protocol	UDP/RTP, ICMP, ARP, IGMPv3, support SPTS or MPTS
TS/IP Multi-IP out Mode	
Connector Type	IEEE 802.3, 10/100/1000 Base-T
Effective Bit Rate	400Mb/s, 9 channels out
Protocol	UDP/RTP, ICMP, ARP, IGMPv3, support SPTS or MPTS
Rear Panel	
ASI In	1 x BNC Female, 75Ω
CI Slot	2 x CI slots
Tuner In	4 x Tuner
ASI Out	4 x BNC Female, 75Ω(2+2 Backup)
前面板	
Control	1×RJ-45, 10/100 Base-T Web control
TS/IP	1× IP (GbE), RJ-45, 10/100/1000 Base-T
Display	LCD Display
Physical	
Power Supply	AC90~260V 50/60Hz
Operating temperature	0 ~ 40℃
Storage temperature	-10 ~ 60℃
Operating Humidity	10 ~ 90%, (Non-condensed)

Block Diagram



Rear Panel

DXP-5800TC

