



Features

- Variety of input options DVB-T2/S2/S/C/T/DTMB/ATSC/ISDB-T, DS3/E3, TS/IP and ASI
- Supports DVB-S2 Input Stream Identifier (ISI, optional) and DVB-T SFN MIP pass through
- Redundant backup among Tuner, ASI and TS/IP with configurable priority
- 4:2:0 and 4:2:2 (optional) of SD/HD MPEG-2 and
- MPEG-4 AVC/H.264 digital video decoding
- Up to 8 Audio PIDs decode or pass through (compressed) in SDI output

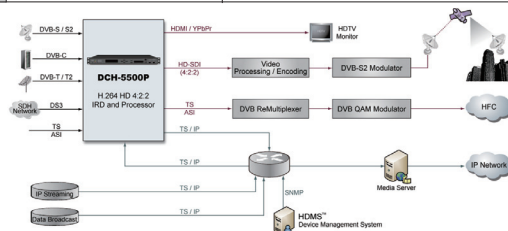
Specifications

Model		DCH-5500P							
DVB-S/S2 Tuner Input (ISI Factory Optional)	Connector Type	1 x F type female 75Ω for Input, 1 x F type female 75Ω for loop through output		DTMB Tuner Input	Connector Type	1 x F type female 75Ω for Input, 1 x F type female 75Ω for loop through output			
	Input Frequency Range	950~2150MHz			Input Frequency Range	46.5~866MHz			
	Input Level	-25~-65dBm			Input Level	-87~-29dBm			
	Symbol Rate	2~45MBaud			Symbol Rate	7.56MBaud			
	Roll-off Factor	DVB-S QPSK: 0.35 DVB-S2 8PSK: 0.35, 0.25, 0.2			Bandwidth	6MHz/7MHz/8MHz			
	FEC Code Rate	DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2 QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9,9/10 DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10			Constellation	4QAM-NR,4QAM,16QAM,32QAM, 64QAM			
	LNB Polarity Selection Voltage	0, 13V, 18V selectable			Guard Interval	PN420, PN595, PN945			
	LNB Band Selection Tone	0/22KHz selectable			Roll-off Factor	0.05			
	Satellite Selection Command	DiSEqC 1.0			Interleaving Depth	240,720			
	ISI ID	1~255 user configurable			FEC Code Rate	0.4, 0.6, 0.8			
	DVB-C Tuner Input	Connector Type	1 x F type female 75Ω for Input, 1 x F type female 75Ω for loop through output		ATSC Tuner Input	Connector Type	1xF type female 75Ω for Input, 1xF type female 75Ω for loop through output		
		Input Frequency Range	51~862MHz			Input Frequency Range	54~864MHz		
Input Level		51~75dBμV		Input Level		-75~-7dBm(ATSC 8VSB)			
Symbol Rate		1~7MBaud (ITU J.83 Annex A)		Symbol Rate		10.762MBaud			
Constellation		16QAM, 32QAM, 64QAM, 128QAM, 256QAM		Constellation		8VSB			
Bandwidth		6MHz, 7MHz, 8MHz		Roll-off Factor		0.115			
Input Return Loss		7dB (typ.)		Bandwidth	6MHz				
DVB-T/T2 Tuner Input		Connector Type	1 x F type female 75Ω for Input, 1 x F type female 75Ω for loop through output		ASI Input 1	Connector Type	1 x BNC female, 75Ω		
	Input Frequency	104~862MHz (VHF/UHF)		Standard		DVB-ASI, EN50083-9			
	Input Level	-20~-70dBm		Input Bit Rate		≤ 100Mb/s			
	Constellation	DVB-T: QPSK, 16QAM, 64QAM DVB-T2: QPSK, 16QAM, 64QAM, 256QAM ,		DS3 Input 2 (Option)	Connector Type	1 x BNC female, 75Ω			
	Bandwidth	6MHz, 7MHz, 8MHz			Standard	DVB-ASI, EN50083-9			
	FFT Mode	DVB-T: 2K, 8K DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K			Input Bit Rate	≤ 100Mb/s			
	Guarding Interval	DVB-T: 1/4, 1/8, 1/16, 1/32 DVB-T2: 1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128		DS3/E3 Input (Option)	Connector Type	2 x BNC female, 75Ω, including loop through			
	FEC Code Rate	DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6			Standard	Compliant with ITU-T G.703			
	Input Return Loss	7dB (typ.)			Frame Structure	Frame Structure Compliant with ITU-T G.752 and ITU-T G.804			
				TS over IP	Bit Rate	DS3	44.736Mb/s		
					Bit Rate	E3	34.368Mb/s		
					Connector Type	2 x RJ-45, seperated 100/1000 Base-T for TS/IP			
					Effective Bit Rate	800Mb/s for 100/1000 Base-T, duplex for SPTS and MPTS			
					Protocol	UDP / RTP, Multicast / Unicast, IGMPv3, ARP			

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Model		DCH-5500P	
TS Processing	TS Input Management	Demux and Remux among Tuner / DS3(optional) / E3 (optional), ASI and TS/IP Inputs	
	TS Output Management	Demux and Remux for 2 independent ASI outputs	
	Service & PID Management	Remux, filtering and remapping	
	PSI/SI	PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation	
	Descrambler	DVB Common Scrambling Algorithm (CSA)	
	BISS Mode	BISS-1, BISS-E	
	Common Interface	Double PCMCIA slots, compatible with major CA CAMs in the market	
ASI Output	Connector Type	2 pairs of BNC female, 75Ω	
	Standard	DVB-ASI, EN50083-9	
	Output Bit Rate	≤ 200Mb/s	
HDMI Output	TS Processing	2 Independent TS Re-multiplexed from tuner, TS/IP and 2 ASI inputs	
	Standard	1 x HDMI 1.3 interface (up to 1080i)	
	Video Resolution & Frame Rate	1080i x 30, 1080i x 29.97, 1080 x 25, 720p x 60, 720p x 59.94, 720p x 50, 480p x 60, 576p x 50, 576i x 25, 480i x 29.97	
Video Decode	Audio Embedded	1 x stereo	
	Video Profile/Level	MPEG-2(MP@ ML for SD, MP@HL for HD), Main Profile(MP) 4:2:0 8-bit, High Profile(HP) 4:2:2 8-bit, MPEG-4/H.264 AVC Part 10 (MP@L3 for SD, HP@L4.1 for HD), High-422(Hi442P) 4:2:2 8/10-bit, High-10(Hi10P) 4:2:0 10-bit, High (HiP) 4:2:0 8-bit, Main (MP) 4:2:0 8-bit, Constrained Baseline (CBP) 4:2:0 8-bit, High 10 Intra Profile (AVC-I 50) 4:2:0 10-bit, High 4:2:2 Intra Profile (AVC-I 100) 4:2:2 8/10-bit	
	Audio Format	MPEG-1 Layer 2 Dolby Digital (AC3) Dolby Digital Plus(AC3+) Dolby E MPEG-2 AAC MPEG-4 HE-AAC v1/v2	
Audio Decode		a. 2 stereo pairs (Stereo, Dual Mono, Left, Right) a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right) b. Dolby Digital Audio Pass-through a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right) b. Dolby Digital Plus Audio Pass-through a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right) b. Dolby E Audio Pass-through a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right) b. 2.0 (Stereo, Dual Mono) a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right) b. 2.0 (Stereo, Dual Mono, Left, Right)	
Digital Audio Processing	Connector Type	2 x BNC female, 75Ω	
	SDI Video Resolution	1080p x 59.94, 1080p x 50, 1080i x 30, 1080i x 29.97, 1080i x 25, 720p x 60, 720p x 59.94, 720p x 50, 720p x 29.97, 720p x 25, 576i x 25, 480i x 29.97	
	Video PID Bit Rate	≤ 60Mb/s	
HD/SD-SDI Output	Connector Type	1 pair of BNCs (mirrored) , female, 75Ω (1 pair of BNCs can be configured as ASI Output-3)	
	SD Standard	SMPTE 259M, 270 Mb/s (10bit)	
	HD Standard	SMPTE 292M, 1.485 Gbit/s (10bit)	
Genlock	Level	800mV p-p	
	Connector Type	1 x BNC female, 75Ω	
	Input Signal	Analog SD (black & burst)	
Digital Audio Processing	Connector Type	2 x D-sub 9 male with XLR adaptor cables and 6 x BNC female 75Ω	
	Number of Output	8 x audio PIDs are decoded or passed through	
	Nominal Output Level	1V p-p (with standard test stream)	
	Output Format	SDI (Embedded Audio), AES	
	Load Impedance	AES1~AES2: 2 x D-sub9, 110Ω (with XLR adaptor cables) AES3~AES8: 6 x BNC, 75Ω	
Analog Video Output	CVBS Connector	1 x BNC female 75Ω	
	CVBS Standard	NTSC, PAL, and SECAM	
	CVBS Resolution	576i x 25, 480i x 29.97	
	Nominal Output Level	1.0 Vp-p±5% (with standard test stream)	
	Frequency Response	<±1 dB, at 5.5 MHz for PAL/SECAM, 4.2MHz for NTSC	
	Chroma-Luma Delay	<±30 ns	
	Field Time Distortion	<2%	
	Line Time Distortion	<1%	
	Short Time Distortion	<2%	
	Differential Gain	<3%	
Analog Audio Output	Differential Phase	<2°	
	Signal to Noise Ratio	>55dB (luminance weighted)	
	Connector Type	2 x D-sub 9 male, with XLR adaptor cable	
	Output Impedance	600Ω (balanced)	
	Output Mode	Left, Right, Dual Mono, Stereo	
	Number of Output	2 pairs of stereo audio outputs (2 Audio PIDs or 4 channels are decoded)	
	Cross Talk Among Channels	>70dB	
	THD	<0.3% @ 400Hz, 1kHz test tone	
	Frequency Response	±0.5dB over 20Hz ~ 18KHz	
	Output Level	0dBm in 600Ω (0dBu), adjustable range±10dB	
Auxiliary Data Processing	Subtitle	DVB, EBU	
	VBI	Teletext, WSS	
	Closed Caption	EIA 608, EIA 708, EIA 608-to-708	
	Redundancy Port	Among Tuner, ASI input and	
	Switching Condition	TS/IP inputSwitching Condition TS Sync Loss	
	Switching Mode	Main, Spare	
	Connector Type	2 x D-sub 9 male	
	Switching Condition	User Defined	
	Connector Type	1xRJ-45, 10/100 Base-T, for equipment IP Control	
	Remote Control	SNMP 2.0, HTTP (WebGUI), Proprietary HDMS (Headend Device Management System)	
Alarm	Local Control	LCD display and Front control 6-key keypad	
	Monitoring	1.5" TFT LCD monitor	
	Serial Port	1 x RS-232 D-sub female, for debug use only	
	Equipment Upgrade	Embedded FTP loader ,Telnet and USB	
	Dimension	1U 19" Full-rack size	
	Power Supply	AC 90V~250V, 50/60Hz	
	Power Consumption	24W (exclusive of LNB power)	
	Operating temperature	0~45°C	
	Storage temperature	-10~60°C	
	Operating Humidity	10~90%, non-condensed	
Control & Monitoring	Certification	EMC EN 55024:1998+A1:2001+A2:2003, EN 55022:2006+A1:2007, EN 61000-3-2:2006, EN 61000-3-3:2008 FCC Part 15 Class B LVD EN 60950-1:2006 + A11:2009	
General			



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