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DCH-3200P
H.264 HD 4:2:0 IRD

The DCH-3200P is a cost effective professional integrated receiver decoder. It is widely used in the satellite, cable and terrestrial TV network with different tuner frontend DVB-S2/S, DVB-C and DVB-T/T2. It demodulates the RF signal to the transport stream with ASI and TS/IP. With dual DVB common slots, DCH-3200P works with most of the well known CAS in the market and decrypts multiple services in a transport stream. The decoder can process a variety of digital video formats in MPEG-4 AVC/H.264, MPEG-2, AVS+ and H.265, in Standard Definition and in High Definition. The TV channel is decoded to digital and analog outputs: HDMI, CVBS, balanced and un-balanced audio. The powerful demodulation, decryption and decoding capabilities, combined with user friendly WEB GUI and SNMP based remote control makes this equipment one of the most competitive professional IRD in the market.

Main Feature

- Variety of inputs (optional) DVB-T2/S2/S/C/T/T2, ASI and TS/IP.
- 2x DVB-CI Slots, Multi Programs, BISS-1 and BISS-E decryption
- MPEG-2, MPEG-4/H.264, AVS+ and H.265 digital video decoding
- Digital and analog video outputs: HDMI and CVBS
- Two digital audio channels decoding of MPEG1 Layer II , AAC and AC3 Dolby Digital,.
- One Balanced Audio
- UDP/RTP, Unicast/Multicast, and SPTS/MPTS over IP (full duplex, optional)
- Remote Control and Supervision by SNMP, HTTP WEB and Proprietary HDMS software
- Dynamic PMT auto detection and updating
- Support VBI TELETEXT, EBU/ DVB Subtitle, Closed Caption
- Configuration save and load after power off

Specification

Tuner Input	
DVB-S/S2 Tuner Input	
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency Range	950~2150MHz
Input Level	-25~-65dBm
Symbol Rate	2~45MBaud/s for QPSK and 8PSK
Roll Off Factor	DVB-S QPSK: 0.35
	DVB-S2 8PSK: 0.35, 0.25, 0.2
Punctured Rates	DVB-S 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
LNB Band Selection Tone	0/22KHz selectable

Satellite Selection Command	DiSEqC 1.x
DVB-C Tuner Input	
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency	48~860MHz
Input Level	45~75dBμV
Symbol Rate	1~7MBaud (ITU J.83 Annex A)
Constellation	16/32/64/128/256QAM
Bandwidth	6MHz/7MHz/8MHz
Input Return Loss	7dB (typ.)
DVB-T/T2 Tuner Input	
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency	104 ~ 862MHz (VHF/UHF)
Input Level	-20 ~ -70dBm
Constellation	DVB-T: QPSK, 16QAM, 64QAM
	DVB-T2: QPSK, 16QAM, 64QAM, 256QAM
Bandwidth	6MHz, 7MHz, 8MHz
FFT Mode	DVB-T: 2K, 8K
	DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K
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
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
Input Return Loss	7dB (typ.)
ASI Input	
Connector Type	1×BNC female, 75Ω
Standard	DVB-ASI, EN50083-9
Input Bit Rate	⩽200Mb/s
TS over IP	
Connector Type	2×RJ-45, 10/100/1000 Base-T for TS/IP
Effective Bit Rate	80Mb/s for full duplex with ProMPEG FEC, 200Mb/s for full duplex without ProMPEG FEC, 600Mb/s for 32xSPTS IP out only
Protocol	UDP / RTP, Multicast / Unicast, IGMPv3, ARP
TS Processing	
Descrambler	DVB Common Scrambling Algorithm(CSA)
BISS Mode	BISS-1, BISS-E
Common Interface	Dual PCMCIA slots, compatible with major CA CAMs in the market
ASI Output	
Connector type	2×BNC Female, 75Ω
Standard	DVB-ASI, EN50083-9
HDMI Output	
Standard HDMI	1×HDMI 1.4 interface (up to 1080p@60)
Video Resolution	1080p, 1080i, 720p, 576p, 480p, 576i, 480i
Audio Embedded	one digital audio pass through
Digital Video Processing	
Video Standard	MPEG-2(MP@ ML for SD,MP@HL for HD) MPEG-4/H.264 AVC Part 10 (MP@L3 for SD, HP@L4.1 for HD) AVS/AVS+(Jizhun/Guanbo profile, level 6.0) HEVC(main and main 10 profile, main/high tier up to level 4.1)

PBI

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Video PID Bit Rate	<80Mb/s
Digital Audio Processing	
Number of Outputs	2×digital audio PIDs are decoded*
Sampling Rate	32, 44.1 and 48KHz
Audio Bit Rate	32, 64, 96, 128, 160, 192, 224,256, 288, 320, 352, 384, 416 and 448 kb/s for MPEG-1 Layer I
	32, 48, 56, 64, 80, 96, 112, 128, 160, 192,224, 256, 320 and 384 kb/s for MPEG-1Layer II
Analog Video Output	
CVBS Connector	1×BNC 75Ω, 1×RCA 75Ω
Video Standard	NTSC, PAL, and SECAM
Signal Level	1.0 Vp-p ±5%
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%
Differential Phase	<2°
Signal to Noise Ratio	>55 dB (luminance weighted)
Analog Audio Output	
Connector type	1 XLR Male Socket, 2 pairs of RCA
Output Impedance	600Ω (balanced)
Output mode	Left, Right, Dual Mono, Stereo
Number of Outputs	2 pairs of stereo audio outputs (2 Audio PIDs are decoded).
Baseband Data Output	
Subtitle	DVB/EBU
VBI	Teletext, WSS, VFD, VPS
Control & Monitoring	
Connector Type	1×RJ-45, 10/100 Base-T for equipment IP Control
Remote Control	SNMP, HTTP Web, Proprietary HDMS Network System Management Software
Local Control	LCD display and 6-key keypad
Serial Port	1×RS-232 9pin D-sub, for debug use only
Equipment Upgrade	FTP loader or USB
Physical	
Dimension	44mm×483mm×255mm
Weight	2.4Kg Net, 4.4Kg Gross
Power Supply	AC 90V~250V, 50/60Hz
Power Consumption	24W
Operating temperature	0~45
Storage temperature	-10~60℃
Operating Humidity	10~90%, non-condensed
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	

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Order Information

Model			DCH-3200P-22X			DCH-3200P-20x			DCH-3200P-10x		
Input	Tuner		S2	T/C/T2	DTMB	S2	T/C/T2	DTMB	S2	T/C/T2	DTMB
	DVB-S2	6110A	●			●			●		
	DVB-T/C/T2			●			●			●	
	DTMB				●			●			●
	ASI In x1			●			●				
	CI			x2			x2			X2	
Output	ASI Out x2			●			●				
	HDMI x1			●			●			●	
	CVBS	BNC + RCA		●			●			●	
	Audio	RCA(L&R) x2		●			●			●	
		XLR x1		●			●			●	
IP	GbE	RJ45 x2		●							
USB	USB x1			●			●			●	
Control	RJ45 x1			●			●			●	