DCH-3200P

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, as DVB-S2/S, DVB-C and DVB-T. It demodulates the RF signal to the transport stream with ASI and TSoIP. 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.

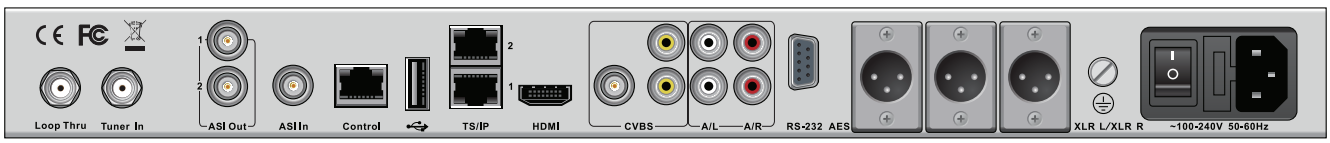
Main Feature

- Variety of inputs (optional) DVB-T/C, DVB-S2X/S/C/T, DTMB,ASI and TS/IP
- 2×DVB-CI Slots, support for all major CAS and CAMs
- BISS-1 and BISS-E descrambling
- SD/HD / UHD MPEG-2, MPEG-4 AVC/ H.264/H.265 / HEVC/ 4K / AVS+ video decoding
- Two digital audio channels decoding of MPEG 1 Layer II, AAC and AC3 DolbyDigital
- Rich Analog and Digital outputs including XLR, AES, HDMI AND CVBS
- UDP/RTP, Unicast/Multicast, and SPTS/ MPTS over IP
- Remote Control and Supervision by SNMP, HTTP WEB and TRAP
- Dynamic PMT auto detection and updating

Order Information

Interface \ Model			DCH-3200P-10X	DCH-3200P-12X	DCH-3200P-20X	DCH-3200P-22X
Input	Tuner		x is tuner options: DVB-S2/S, DVB-T/C, DTMB, ASI In Factory default: x=S2			
	ASI In×1		option	option	•	•
	CI×2		•	•	•	•
Output	ASI Out x2				•	•
	HDMI		•	•	•	•
	CVBS	BNC + RCA	•	•	•	•
	Audio	RCA(L&R) x2	•	•	•	•
		XLR x1	•	•	•	•
TSoIP	GbE	RJ45 x2		•		•
USB	USB x1		•	•	•	•
Control	RJ45 x1		•	•	•	•

Back panel Interface (Full option)



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

EIGHT LIMITED
No.18, 4/F., Thriving Industrial Centre, 26-38 Sha Tsui Road, Tsuen Wan, N.T., Hong Kong TEL : (852) 2413 2222 FAX : (852) 2411 3000 EMAIL : info@eightgroup.com

DCH-3200P

HD 4:2:0 IRD

Specification

Tuner Input	
DVB-S/S2/S2X 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	***DVB-S2X/S2*** QPSK 8PSK : 1~60MSps 16APSK : 1~58MSps 32APSK : 1~55MSps 64APSK : 1~34MSps ***DVB-S*** QPSK : 1~54MSps
Roll-off Factor	0.05 ~ 0.35
LNB Polarity Selection Voltage	0, 13V, 18V selectable
LNB Band Selection Tone	0/22KHz selectable
Satellite Selection Command	DiSEqC 1.3
ISI ID	1~255 user configurable
DVB-C Tuner Input	
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency Range	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 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
Bandwidth	6MHz, 7MHz, 8MHz
FFT Mode	2K, 8K
Guarding Interval	1/4, 1/8, 1/16, 1/32
FEC Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
Input Return Loss	7dB (typ.)
DTMB Tuner Input	
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output
Input Frequency Range	46.5~866MHz
Input Level	-87~-29dBm
Symbol Rate	7.56MBaud
Bandwidth	6MHz/7MHz/8MHz
Constellation	4QAM-NR,4QAM,16QAM,32QAM, 64QAM
Guard Interval	PN420, PN595, PN945
Roll-off Factor	0.05
Interleaving Depth	240,720
FEC Code Rate	0.4, 0.6, 0.8
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	350Mb/s, Full duplex, 32 output streams, 2 input streams
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 2.0
Video Resolution	2160p x60, 1080px60, 1080i x60, 1080i x25, 720px60, 720px50, 576i x25, 480i x29.97
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+ HEVC
Video PID Bit Rate	<80Mb/s
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)
Signal to Noise Ratio	>55dB (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)
Digital Audio Processing	
Number of Output	1 x digital audio PIDs are decoded*
Sampling Rate	32, 44.1 and 48 kHz
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, 54, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320, and 384 kb/s *for MPEG-1 Layer II*
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°C
Storage temperature	-10~60°C
Operating Humidity	10~90%, non-condensed

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