

## 8-Way Professional Demodulator & IPTV Streamer

*Model: DXP-3800D*



### Main Feature:

- 8 DVB-S2/S, DVB-C, DVB-T2/T or DTMB or ATSC or ISDB-T Tuner Inputs
- Tuner RSSI, received signal strength, Eb/N0, C/N and BER monitoring
- Tuner direct demodulation and descrambling loop thru to each ASI output
- Tuner to IP streamer with up to 128 SPTS/IP outputs
- Built-in TS re-multiplexing from any tuner input and TS/IP input, then output to ASI-9 and ASI-10 in mirror and copy to TS/IP output
- 8×DVB-CI Slots, multi-program decryption, BISS-1 and BISS-E decryption to 8xASI outputs
- Up to 9 TS/IP outputs if remux module is enabled with 8 TS/IP outputs from tuner to IP and 1 remux to TS/IP output
- Remote Control and Supervision by SNMP v2, HTTP WEB and Proprietary HDMS software
- On Site software update through IP or USB
- Redundancy power supply



### Technical Specification:

DVB-S/S2 Tuner Input	
Connector Type	8×F type female 75Ω for Input
Input Frequency Range	950 ~ 2150MHz
Input Level	-25 ~ -65dBm
Symbol Rate	2 ~ 45MBaud
Bit rate adaptation	Yes
Roll-off Factor	DVB-S QPSK: 0.35
	DVB-S2 8PSK: 0.35, 0.25, 0.2
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
LNB Polarity Selection Voltage	0, 13V, 18V selectable
LNB Band Selection Tone	0/22KHz selectable
Satellite Selection Command	DiSEqC 1.0
ISI ID	1 ~ 255 user configurable
DVB-C Tuner Input	
Connector Type	8×F type female 75Ω for Input
Input Frequency Range	51 ~ 862MHz
Input Level	51 ~ 75dBμV
Symbol Rate	1 ~ 7MBaud (ITU J.83 Annex A)
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Bandwidth	6MHz, 7MHz, 8MHz
Input Return Loss	7dB (typ.)
DVB-T/T2 Tuner Input	
Connector Type	8×F type female 75Ω for Input
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.)
Multi-PLP	8



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DTMB Tuner Input	
Connector Type	8×F type female 75Ω for Input
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
ATSC Tuner Input	
Standard	Compliant with ITU J.83 Annex B
Connector Type	8×F type female 75Ω for Input
Input Frequency Range	54~864MHz
Input Level	-75~-7dBm(ATSC 8VSB)
Symbol Rate	10.762MBaud
Constellation	8VSB
Roll-off Factor	0.115
Bandwidth	6MHz
ISDB-T Tuner Input	
Connector Type	8×F type female 75Ω for Input
Standard	ARIB STD-B31 and TR-B14
Input Frequency	174~806MHz
Input Level	-70dBm~-20dBm
Modes	DQPSK, QPSK, 16QAM, 64QAM
Bandwidth	6MHz
FFT	2K,4K,8K
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Time Interleave	0 to 8
TS Processing	
TS Input	Selection of any of 8 tuner input with CI or BISS descrambling Tuner direct pass thru to ASI output with CI or BISS descrambling,
TS Output	Tuner input Remux to ASI-9 and ASI-10 output TS/IP output copy from ASI-9 and ASI-10
Service and PID	Service and PID drop and remux
PSI/SI	PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation
Descrambler	DVB Common Scrambling Algorithm (CSA) or BISS-1, BISS-E
Common Interface	8 x PCMCIA slots, compatible with major CA CAMs in the market

[www.dh-tv.com](http://www.dh-tv.com)

**Address:** No.3 Feng Zhi East Road, Xi Bei Wang Town, Hai Dian District, Beijing, 100094, China  
**Telephone:** (+86)010-57802000, **Email:** support@dh-tv.com



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*DXP-3800D*

ASI Output	
Connector Type	Daughter Board: 8xBNC female, independence output, 75Ω, Main Board: 1 pair of BNC female, mirror output, 75Ω,
Standard	DVB-ASI, EN50083-9
Output Bit Rate	≤ 200Mb/s
TS over IP	
Connector Type	1×RJ-45, 100/1000 Base-T
Mode-1(TS/IP input disabled)	Max.500Mb/s for up to 9 TS/IP outputs with 8 TS/IP direct pass through from tuner 1 to 8 and 1 TS/IP output from Remux module
Mode-2(TS/IP input disabled)	Max.500Mb/s for MPTS demux from tuner 1-8 and remux module to 128 SPTS/IP outputs as IPTV streamer
Mode-3	Max.80Mb/s for full duplex 1 TS/IP output from tuner inputs
Protocol	UDP/RTP, Multicast/Unicast, IGMPv3, ARP
Control & Monitoring	
Connector Type	1×RJ-45, 10/100 Base-T, for equipment IP Control
Remote Control	SNMP, HTTP Web Interface, Proprietary HDMS (Headend Device Management System)
Local Control	LCD display and 6-key keypad
Serial Port	1×RS-232 D-sub female, for debug use only
Equipment Upgrade	USB,WEB http and FTP
Contact Relay	1×DB-9 male for tuner lock and power supply warning
Physical	
Power Supply	AC 90V ~ 250V, 50/60Hz
Power Consumption	30W (exclusive of LNB power)
Operating temperature	0 ~ 45℃
Storage temperature	-10 ~ 60℃
Operating Humidity	10 ~ 90%, non-condensed
Dimension	505mm x 445mm x 45mm
Weight	7.9kg

## Front Panel Interface



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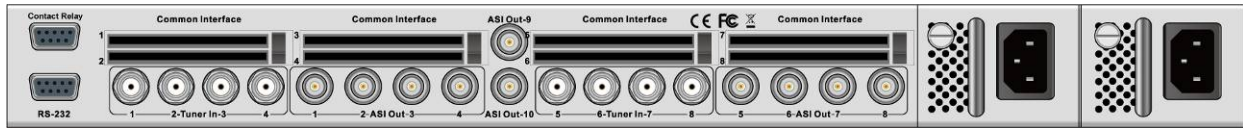


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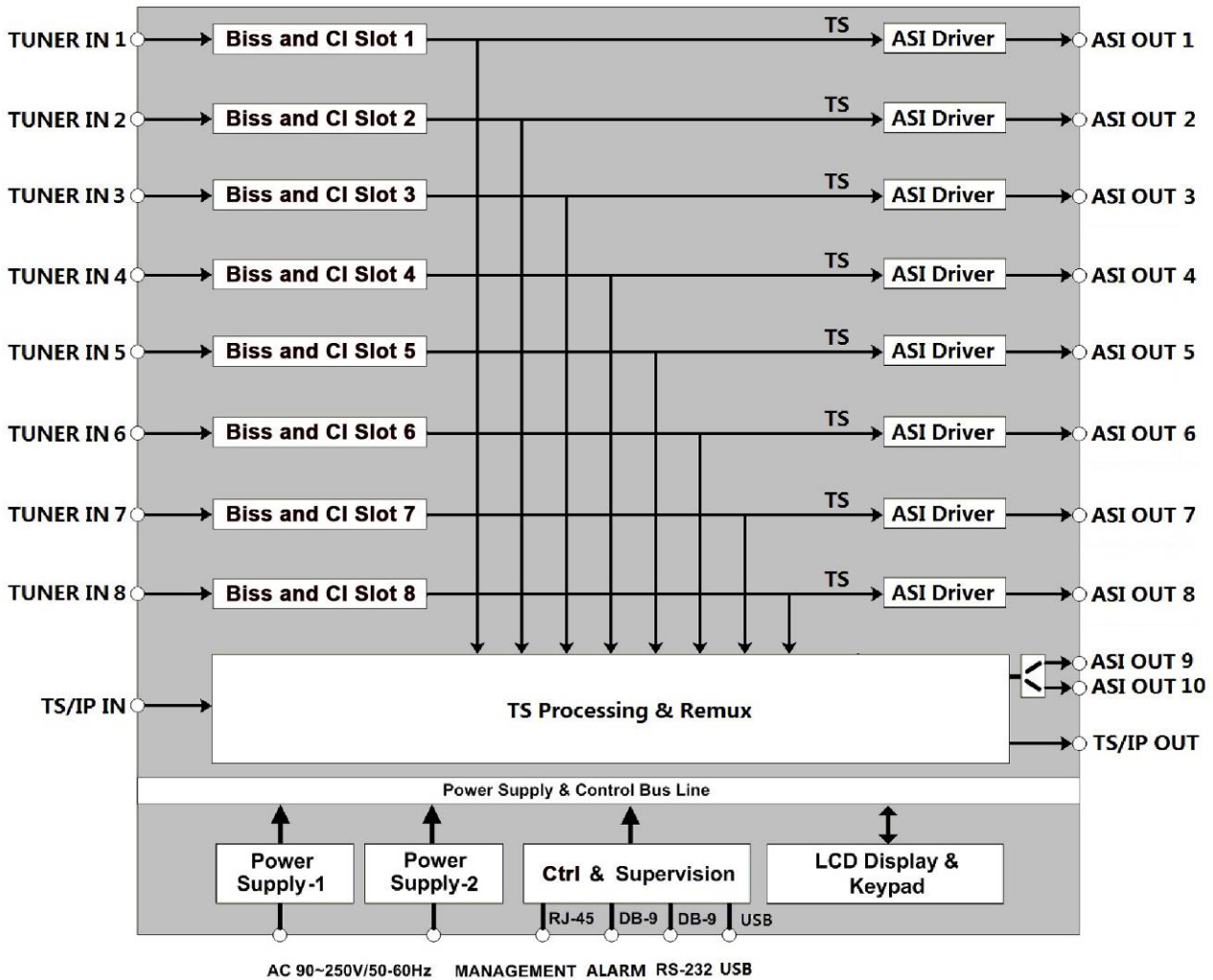
DXP-3800D



## Back Panel Interface (Full Option)



## Block Diagram



## Order Information

Model	DXP-3800D -S2	DXP-3800D -C	DXP-3800D- T2	DXP-3800D -DTMB	DXP-3800D -ISDB	DXP-3800D -ATSC
Tuner Type	DVB-S/S2	DVB-C	DVB-T/T2	DTMB	ISDB-T	ATSC
Tuner IN	x8	x8	x8	x8	x8	x8

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