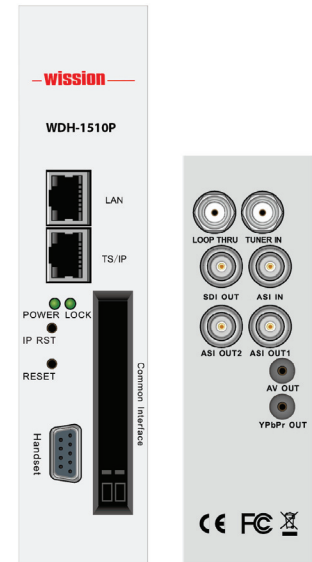


WDH-1510P

Single Channel H.264 HD IRD and Processor

Main Feature

- Multiple inputs DVB-T2/S2/S/C/T/T2, TS/IP and ASI
- Redundant inputs between Tuner, ASI and TS/IP
- SD/HD MPEG-2 and MPEG-4/H.264 digital Video decoding
- Digital Audio decoding and loop through via
- Multiple Analog and Digital Outputs, ASI, CVBS, YPbPr, SDI, TS/IP
- Flexible re-multiplexing between 2×ASI, Tuner and TS/IP Inputs
- 2×DVB-CI Slots, Multi Programs, BISS 1 and BISS E decryption
- Dynamic PMT detection and automatic updating
- Support VBI TELETEXT, EBU/ DVB Subtitle, Closed Caption
- UDP/RTP & Unicast/Multicast SPTS and MPTS over IP I/O
- Remote Control and Supervision by SNMP, HTTP WEB and Proprietary HDMS software
- PCM audio embedded in SDI output
- On Site software update through IP
- RSSI, received Eb/No & BER monitoring



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	5~45MS/s for QPSK 10~31MS/s for 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 Polarization	0, 13V, 18V selectable
LNB Band Switching Tone	0/22KHz selectable
DiSEqC	DiSEqC 1.0
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	45~75dBuV
Symbol Rate	1~7MS/s (ITU J.83 Annex A)
Constellation	64/128/256 QAM
Bandwidth	6/7/8MHz
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 (Quasi Error Free, QEF)
Constellation	DVB-T: QPSK/16-QAM/64-QAM DVB-T2: QPSK, 16QAM, 64QAM, 256QAM
Bandwidth	6/7/8 MHz
FTT Mode	DVB-T: 2K/8K DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K
Guard 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	≤ 100Mb/s
Package Length	188 or 204 Bytes
TS over IP	
Connector Type	1×RJ45, 10/100M for TS/IP
Useful bit rate	70Mb/s for 10/100M
Protocol	UDP / RTP, Multicast / Unicast, IGMPv2,ARP

TS Processing	
TS Input Management	Remux and demux between Tuner, ASI and TS/IP Inputs
TS Output Management	Remux and demux for 2 independent ASI outputs
Service and 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×BNC Female, 75Ω
Standard	DVB-ASI, EN50083-9
TS Processing	2 Independent TS Re-multiplexing from tuner, TS/IP and 2 ASI inputs

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)
SDI Video Resolution	1080i×30, 1080i×29.97, 1080i×25, 720p×60 720p×59.94, 720p×50, 576i×25, 480i×29.97
Video Bit Rate	< 80Mb/s
SDI Connector Type	1×BNC Female, 75Ω
SD-SDI Serial Interface	SMPTE 259M, 270 Mb/s (10bit)
HD-HDI Serial Interface	SMPTE 292M, 1.485 Gbit/s (10bit)
Level	800mV p-p

Digital Audio Processing	
Number of Output	1 pair of audio outputs

Analog Video Output	
YPbPr Connector	1×2.5mm phone jack, 75Ω (with phone jack to RCA adaptor,)
CVBS Connector	1×2.5mm phone jack, 75Ω (with phone jack to RCA adaptor,)
Video Standard	NTSC, PAL, and SECAM
YPbPr Resolution	1080i×30, 1080i×29.97, 1080i×25, 720p×60, 720p×59.94, 720p×50, 480p×60, 576p×50, 576i×25, 480i × 29.97
Signal Level	1.0 Vp-p±5%
Frequency Response	< ±1 dB at 5.5 MHz
Chroma-Luma Delay	<±30 ns
Field Time Distortion	<2%
Line Time Distortion	<1%
Short Time distortion	<2%
Differential Gain	<4%
Differential Phase	<2°
Signal to Noise Ratio	>55 dB (luminance weighted)

Analog Audio Output	
Connector type	1×2.5mm phone jack, 75Ω (with phone jack to RCA adaptor,)
Output mode	Left, Right, Dual Mono, Stereo

Baseband Data Output	
Subtitle	DVB/EBU
VBI	Teletext, WSS, VFD, VPS
Closed Caption	EIA 608, EIA 708, EIA 608-to-708

Redundancy	
Redundancy Port	between Tuner, ASI inputs and TS/IP
Switching Condition	TS Sync Loss
Switching Mode	Main, Spare

Control & Monitoring	
Connector Type	1×RJ45, 10/100M, for equipment IP Control
Remote Control	SNMP, HTTP Web, Proprietary HDMS Network System Management Software
Local Control	Handheld Programmer Unit
Equipment Upgrade	FTP loader

Order Information

Interface / Model	WDH-XXXX-XX									
	1510P-60S2	1510P-60C	1510P-60T	1510P-60T2	1510P-60M	1510P-88S2	1510P-88C	1510P-88T	1510P-88T2	1510P-88M
Tuner	-S2/S	-C	-T	- T2	-DTMB	-S2/S	-C	-T	-T2	-DTMB
ASI Input	•	•	•	•	•	•	•	•	•	•
Common Interface	x2	x2	x2	x2	x2	x2	x2	x2	x2	x2
Built-in Re-mux	•	•	•	•	•	•	•	•	•	•
ASI Output	x2	x2	x2	x2	x2	x2	x2	x2	x2	x2
SDI	•	•	•	•	•	•	•	•	•	•
YPbPr	•	•	•	•	•	•	•	•	•	•
Audio L/R	•	•	•	•	•	•	•	•	•	•
CVBS	•	•	•	•	•	•	•	•	•	•
TS/IP(Max 32 SPTS or MPTS output)						•	•	•	•	•